# 1996-1998 with 1997 revisions 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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# XAVIDR University 



1990-98 Catalog
with 1997 revisions


# Xavier University 1996-98 Catalog with 1997 revisions 

## Undergraduate and Graduate Information

## College of Arts \& Sciences

College of Business Administration

College of Social Sciences

3800 Victory Parkway<br>Cincinnati, Ohio 45207-3131<br>513 745-3000

View the latest catalog information on the web http://www.xu.edu/registrar/academic/catalog


## MY VISION FOR XAVIER

"My vision for Xavier is simple. What I want most of all is that a Xavier education be of such quality that each and every graduate will say: 'I received a superb education at Xavier. I could not have received a finer education anywhere. I know that I am intellectually, morally and spiritually prepared to take my place in a rapidly changing global society and to have a positive impact on that society- to live a life beyond myself for other people.' "


James E. Hoff, S.J. President
Xavier University

## A GUIDE TO THIS PUBLICATION:

The Xavier University 1996-98 Catalog with 1997 revisions is organized into several sections. The bottom of each right-hand page lists the content of the page. Refer to the Table of Contents or Index for specific references.

## Table of Contents: Page 1 .

General Information: pages 2 to 83. This section contains overview information regarding the University, academic calendar, undergraduate and graduate admission, scholarship, and financial aid, registration, privacy rights, tuition and fees, student development, and spiritual development.

Academic Programs: pages 84 to 245 . This section first lists all undergraduate and graduate degrees, as well as certificate programs, special University programs and the Undergraduate Core Curriculum. It then divides into the three academic colleges: Arts and Sciences; Business Administration; and Social Sciences. Within each college, departments appear alphabetically. Each department lists faculty; degree, major, minor, certificate, and program descriptions; and block schedules.

Course Descriptions; pages 246 to 365. Course offerings as of August 1997 appear in the section, alphabetically by the four-character abbreviation of the subject area.

University Personnel: pages 366 to 388 . Board of Trustees, Officers of Administration, Administrative/Professional Staff, University Librarians, University Faculty, Academic Staff, Distinguished Professors Emeriti, and Professors Emeriti are listed.

Additional Information: Pages 389 to 391, Miscellaneous information.
Index: pages 392to 396. References to all information in the catalog.

The content of this Catalog is accurate at the time of printing. It may be subject to change as deemed appropriate by the University in order to fulfill its role and mission. Changes may be implemented without prior notice and without obligation and, unless specified otherwise, are effective when made.

Beginning September 1997, reprints of the 1996-98 Catalog will contain revised information since the July 1996 printing.

Published by the Office of the Registrar, September 1997
http://www.xu.edu/registrar/academic/catalog
David M. Sauter, University Registrar
Patricia S. Woeste, Assistant to the Academic Vice President Assisted by Bonnie Fiedeldey
Special appreciation is extended to Dr. David Weinberg for his assistance.
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## XAVIER AT-A-GLANCE

Location: On over 100 acres in a residential section of Cincinnati, Ohio, which was named America's Most Livable City in 1994. The city is known for its neighborhoods, parks, cultural activities, zoo, amusement park, professional athletics, and seasonal events and festivals along the Ohio River.

Affiliation: Founded in 1831, the University is the fourth oldest of the twenty-eight Jesuit institutions of higher education in the United States.

Curriculum: Most extensive liberal arts core curriculum at the undergraduate level of any Jesuit institution. Over 50 majors to choose from in the College of Arts and Sciences, Business Administration, and Social Sciences. Minors are also offered in most areas of study and pre-professional programs in the areas of business, dental, engineering, law, medical, mortuary science, and pharmacy. Graduate programs are offered in ten areas.

Enrollment: Totaling over 6,400 students with approximately 3,000 full-time undergraduates, 1,100 part-time undergraduates, and 2,300 graduate students. Over $83 \%$ of the freshman and sophomore population live on campus. Of the full-time undergraduates, $43 \%$ are men and $57 \%$ are women. Students come from more than 40 states and 46 countries.

Typical Freshman Profile: New students in the mid 50\% at Xavier each year have a GPA between 2.8 and 3.7; ACT composites between 21 and 27; SAT composites between 990 and 1230; and rank in the top quarter of their high school class. Seventy-five (75) percent rank in the top half of their high school class. The freshman retention rate is over $90 \%$.

Activities: Students choose from over 100 different academic clubs and social organizations, including Student Government Association, Student Activities Council, jazz and pep bands, choir, academic clubs, and honoraries.

Athletics: Division I in all sports and a member of the prestigious Atlantic 10 Conference in intercollegiate sports including men's and women's basketball, cross country, golf, riflery, soccer, swimming, and tennis; men's baseball; and women's volleyball. Club sports in boxing, crew, ice hockey, karate, lacrosse, martial arts, rugby, sailing, snow skiing, and wrestling. Intramural programs in over 30 sports including basketball, racquetball, sand volleyball, soccer, softball, tennis, and many more.

Financial Aid and Scholarships: $80 \%$ of our students receive some form of financial assistance to help with their college expenses. Non-need based academic and merit scholarships ranging from partial to full tuition, room, and board are also available to academically qualified students.


## FALL SEMESTER 1997-98

Note: The calendar dates shown may be modified due to academic and administrative policies and procedures approved after the University Catalog was published. The official Schedule of Classes bulletin should be consulted for specific dates and times established for a term. Some programs may utilize dates which differ from the term dates shown here. Consult the individual department for information.

## Fall Semester 1997-98 <br> Wednesday, August 27 - Thursday, December 18, 1997



## UNIVERSITY CALENDAR

October 1997

| $S$ | M TW | R | F | S |
| ---: | :--- | :--- | :--- | :--- |
| 1 | 2 | 3 | 4 |  |


| 5 | 6 | 7 | 8 | 9 | 10 |
| :--- | :--- | :--- | :--- | :--- | :--- | 11

$\begin{array}{lllllll}12 & 13 & 14 & 15 & 16 & 17 & 18\end{array}$
$19202122 \quad 232425$
262728293031
9-10 Fall Holiday, day classes do not meet;
4:00 and after classes do meet, except labs

November 1997

$\begin{array}{lllllll}2 & 3 & 4 & 5 & 6 & 7 & 8\end{array}$
9101112131415
16171819202122
23242526272829
30
20 Final date for withdrawal from full-term courses - undergraduate students
25 Thanksgiving Holiday begins after last class; no classes Nov. 26-30
27 Thanksgiving

| December 1997 |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| S | M | T | W | R | F |
|  | S |  |  |  |  |
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$\begin{array}{lllllll}14 & 15 & 16 & 17 & 18 & 19 & 20\end{array}$
21222324252627
1 Classes resume
12 Last day of classes. Final day for withdrawal from full-term courses graduate students
28293031
13-18 Final examinations
18 End of Fall Semester after last examination
25 Christmas Day

## SPRING SEMESTER 1997-98

## Spring Semester 1997-98 <br> Monday, January 12 - Thursday, May 7, 1998

| January 1998 |  |  |  |  |  |  |
| ---: | ---: | ---: | ---: | ---: | ---: | ---: |
|  |  |  |  |  |  |  |
|  | $M$ | $T$ | $W$ | $R$ | $F$ | $S$ |
| 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| 11 | 12 | 13 | 14 | 15 | 16 | 17 |
| 18 | 19 | 20 | 21 | 22 | 23 | 24 |
| 25 | 26 | 27 | 28 | 29 | 30 | 31 |

1 New Year's Day
10 Graduate and CAPS student registration
11 Formal registration - all students
12 Classes begin
17 Last day for late registration or changes in registration
19 Martin Luther King Jr., Holiday classes do not meet

February 1998

| S | M | T | W | R | F | S |
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$\begin{array}{lllllll}15 & 16 & 17 & 18 & 19 & 20 & 21\end{array}$
$22 \quad 232425262728$

## March 1998

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\end{array}
$$

$\begin{array}{lllllll}15 & 16 & 17 & 18 & 19 & 20 & 21\end{array}$
$\begin{array}{llllllllllll}22 & 23 & 24 & 25 & 26 & 27 & 28\end{array}$
293031

## UNIVERSITY CALENDAR

| April 1998 |  |  |  |  |  |  |
| ---: | ---: | ---: | ---: | ---: | ---: | ---: |
| S | M | T | W | R | F | S |
|  |  |  | 1 | 2 | 3 | 4 |
| 5 | 6 | 7 | 8 | 9 | 10 | 11 |
| 12 | 13 | 14 | 15 | 16 | 17 | 18 |
| 19 | 20 | 21 | 22 | 23 | 24 | 25 |
| 26 | 27 | 28 | 29 | 30 |  |  |

8 Easter Holiday begins after last class; no classes April 9-13, except 4:00 \& after classes (non-labs) do meet April 13
8 Final date for withdrawal from fullterm courses - undergraduate students
12 Easter Sunday
13 Monday once-a-week classes meet; except labs
14 All classes resume
May 1998

| S M | T | W | R | F | S |  |
| ---: | ---: | ---: | ---: | ---: | ---: | ---: |
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| 3 | 4 | 5 | 6 | 7 | 8 | 9 |
| 10 | 11 | 12 | 13 | 14 | 15 | 16 |
| 17 | 18 | 19 | 20 | 21 | 22 | 23 |
| 24 | 25 | 26 | 27 | 28 | 29 | 30 |
| 31 |  |  |  |  |  |  |

1 Last day of classes. Final day for withdrawal from full-term courses graduate students
2-7 Final Examinations
7 End of Spring Semester after last examination
16 Commencement, 8:45 a.m.
18 Summer Sessions begin
25 Memorial Day Holiday, classes do not meet

## Summer Sessions 1998

Summer classes occur during two regular sessions and other Education Department sessions and workshops throughout the summer. Consult the Summer Bulletin, which will be available approximately March 1. Call the Summer Sessions office after January 1 to reserve a copy (513) 745-4381. Email address is XUSUMMER@admin.xu.edu

June 1998

| S M | T | W | R | F | S |
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$\begin{array}{llllll}14 & 15 & 16171819 & 20\end{array}$
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282930

July 1998

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## THE UNIVERSITY

## History

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

At first, the college was administered by the bishop and his diocesan priests, but as it grew it began to require professional academic leadership. In 1840, Father Roothan, the Jesuit General, responded to Bishop Purcell's (Fenwick's successor) request and appointed three Jesuit priests, two brothers, and two scholastics to assume the leadership of the college. Its name was changed to St. Xavier College in honor of the Jesuit educator under whose patronage the college was originally placed.

It was during these first few years as a Jesuit institution that Xavier began to take on the unique character and special role that it fulfills today. For example, a mercantile program was added to the curriculum in 1840 because the Jesuit educators recognized the need to supplement the traditional humanities education with a sound business program. Today, the University is recognized for its development of an excellent College of Business Administration, established in 1961, which, together with the other undergraduate colleges - the College of Arts and Sciences and the College of Social Sciences as well as the center for adult and part-time students (CAPS)-provides students with a broad-based learning experience.

In 1841, Xavier offered its first night courses, beginning a tradition of serving the unique needs and schedules of professionals in the Cincinnati community, a tradition it proudly continues today.

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

A historical development at Xavier was the addition on July 1, 1980, of a second campus and a fourth undergraduate college, Edgecliff College. Founded in 1935 by the Sisters of Mercy as a women's liberal arts college, Edgecliff brought with it 45 years of dedication and academic excellence. In 1985, the Edgecliff campus was sold and all programs were moved to the main campus.

The campus grew in the 1980s with donations of property by the U.S. Shoe Corp. in 1982 and the Rainbo Baking Co. in 1986 (including an 84,000 -square-foot building) that increased Xavier's total acreage to 80 acres.

Other expansions included Xavier Village, a 56 -unit student apartment complex, constructed on 5.6 acres of property purchased from Peggy Becker Jackson in May 1988, and the Link Complex, three acres received through a charitable trust from Dr. Joseph Link Jr. on Jan. 2, 1989. These additions brought Xavier's total area to 89 acres.

On April 21, 1991, the Rev. James E. Hoff, S.J., was inaugurated as Xavier's 33rd Jesuit president. Under Fr. Hoff's leadership, the University has continued to grow:

- The Carl H. Lindner Family Physics Building was dedicated in October 1991. The building is part of an $\$ 8.8$ million science center project that provides state-of-theart classroom and laboratory facilities for the University's physics, biology and chemistry programs.
- In the fall of 1995 , the University dedicated its newest residence hall to Clement and Ann Buenger. Completed in 1993, the coed residence houses 205 students and features two-, three- and four-bedroom suites arranged around a central kitchen, dining and lounge area. Mr. Buenger graduated from Xavier in 1953 and is retired chief executive officer of Fifth Third Bancorp in Cincinnati,
- Probably one of the largest endeavors the University has ever undertaken began in 1994. In March of that year, the board of trustees endorsed the direction of a university strategic plan. XU2000 is an aggressive plan that will shape Xavier's development into the 21st century. The plan was created to make Xavier academically, financially and spiritually stronger. Since XU2000 was introduced Xavier has:
- Achieved a ranking among the top regional colleges and universities for three straight years by U.S. News \& World Report.
- Recruited the largest two freshman classes in University history.
- Renovated the academic and residential malls with lush landscaping, green spaces and sitting areas.
- Created a doctoral degree program in psychology, Xavier's first doctoral level course of study and the second Psy.D. program in Ohio.
- Created a bachelor's degree program in nursing.
- Increased the number of national alumni chapters to 40.
- Entered the Atlantic 10 Conference.
- Implemented a weekend degree program.
- Wired all residence hall rooms for external database links.
- Started fund-raising for the building of a multipurpose convocation center that will offer student dining, conference facilities, a banquet hall and a 10,000 -seat athletic arena. Construction of the facility should begin by early 1998 and be completed by 1999.
- Launched The Century Campaign, the most ambitious fund-raising campaign in the University's history. The $\$ 100$ million campaign includes these goals: increasing Xavier's endowment, renovating Hinkle, Schmidt and Alumni halls, creating the Brueggeman center for religious dialogue and building the convocation center.

Xavier's growth in the century and a half since its founding reflects its origins as a teaching institution that soundly prepares students for careers, graduate study, or both. A Xavier education, particularly at the undergraduate level, is marked by an emphasis on liberal arts learning contained in Xavier's core curriculum. Equally important in the Xavier tradition is the synthesis of human, cultural and ethical values; concern and respect for all people; and an appreciation of the worth and dignity of the self and others.

## Xavier University: Mission Statement

Xavier's mission is toeducate. 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 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 that 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

Xavier University offers its students the advantages of a quality liberal education, which has always been the center of the Jesuit university. Such an education frees the individual from sole concentration on immediate concerns to explore the diverse achievements of civilization along with the vast potential of the human person. Jesuit and Catholic education presume that the truth about the world and humankind, discovered through human reason, cannot ultimately conflict with the truth of faith, since the two have a common origin in God. Indeed, the continuing dialogue between religious tradition and developing human wisdom is of primary importance in the search for ultimate truth.

Education at a Jesuit and Catholic institution strives to integrate the intellectual dimension of learning with the spiritual experience of the student and to nurture a strong system of personal moral values. The goal is the formation of the student's mind and heart into a habit of reaching out to the needs of today's and tomorrow's global society and, in the process, of reaching out to God.

Jesuit education is committed to providing students with a supportive learning environment: addressing personal needs, developing career goals, and encouraging recreational and aesthetic balance, along with the academic curriculum. In addition, opportunities are provided for spiritual and religious growth and a developing habit of service to others.

## Assessment

Xavier University has demonstrated its commitment to excellence by instituting an assessment program. Xavier's assessment program includes all aspects of the university and is ongoing. The goal of this program is the continual improvement of the educational experience at Xavier. The involvement of every member of the Xavier community-faculty, staff and students-is necessary to ensure that the assessment program is a success.

## College of Arts and Sciences (CAS)

513745-3101
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, biology, chemistry, classics, communication arts, English, history, mathematics and computer science, modern languages, music, philosophy, physics, and theology. At the graduate level, master's degree programs are offered in English, history, humanities and theology.

The University established the College of Business Administration on Sept. 1, 1961, to prepare students of business administration to be qualified to accept a position of responsibility and leadership in the business community.

The college offers an associate degree in business administration; bachelor's degrees through the departments of accounting and information systems, economics and human resources, finance, management and entrepreneurship and marketing; and a master of business administration degree.

## College of Social Sciences (CSS)

$513745-3119$
Xavier's newest coilege, 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 criminal justice, economics, education, international affairs, nursing, occupational therapy, political science and sociology, psychology, and social work. Master's degree programs are available in criminal justice, education, health services administration and psychology. A doctoral program is offered in psychology.

## Center for Adult and Part-time Students (CAPS)

513745-3355
The purpose of the center is to admit, advise, and register all undergraduate degree-seeking and non-degree-seeking students 22 years of age and older. Undergraduate degree-seeking students who are under 22 years of age must be admitted through the office of admission, but may use CAPS for advising and registering if they take courses primarily in the evenings or in the weekend degree program. The CAPS email address is XUCAPS@admin.xu.edu; the weekend degree program email address is XUWDP@admin.xu.edu.

## Consortium Opportunities

513745-3941
Xavier is a member of the Greater Cincinnati Consortium of Colleges and Universities, a consortium of 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 students who are enrolled at least halftime. The consortium schools, which may include their branch campuses, are:

Art Academy of Cincinnati
Athenaeum of Ohio
Chatfield College
Cincinnati Bible College \& Seminary
Cincinnati State Technical \& Community College
College of Mount St. Joseph
Hebrew Union College - Jewish Institute of Religion
Miami University
Northern Kentucky University
Thomas More College
University of Cincinnati
Wilmington College
Xavier University

## University Libraries

McDonald Memorial Library 513 745-3881
The McDonald Memorial Library provides collections and services to support the university's curricula. The collection numbers more than 330,000 volumes of books and journals, more than 620,000 pieces of microfiche, and approximately 1,500 journal subscriptions. The library has a collection of approximately 4,500 phonograph records, 1000 video cassettes, 500 audio cassettes, and a growing collection of music compact discs.

The library also offers a wide range of computerized resources, which includes a computerized catalog, journal indexes on CD-ROM, several on-line research services, including the full text academic index service and Lexis/Nexis. Xavier students and staff may access many of these computerized services from outside the library, using microcomputers and modems in their homes, dorms or offices.

Xavier University libraries are active participants in OhioLINK, a statewide material exchange program with 53 colleges and universities throughout Ohio. Xavier University students and faculty can search the 60 million records of OhioLINK members and borrow materials on demand.

Xavier University is also a member of the Greater Cincinnati Library Consortium (GCLC), which entitles students and faculty to borrow materials from most area libraries. Materials which are not available locally may be obtained through the library's Interlibrary Loan Service, which provides access to materials from libraries throughout the country.

Reference librarians are available to assist library patrons with this broad range of resources and services. The library also promotes an active instructional program, in which librarians work with students and faculty to ensure that students develop research skills for independent learning.

## Instructional Media Services

$513745-3603$
Instructional Media Services (IMS), located in B-9 Alter Hall, provides instructional media hardware and software for classroom use. IMS maintains an electronic presentation classroom in Alter B-11 as well as a previewing area in Alter B-9.

IMS staff will arrange for the rental of films and video cassettes for students and faculty to use in the classroom. IMS has access to the GCLC film library and can also rent films that are not available locally.

## Lodge Learning Laboratory

513745-3319
Lodge learning laboratory, located on the second floor of Schmidt Hall, is the curriculum 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, multimedia instructional materials, modern language audio cassettes, computer hardware and software, and audio visual 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 audiovisual equipment.

## Center for Academic Computing

The Xavier University center for academic computing (CAC) provides a wide-range of services designed to meet a variety of users needs in the areas of instruction and research. Timesharing computing is available through the VAX 6430 mainframe. Access to the VAX is available from resident workstations via a modem, and from all computing lab workstations that are also networked to a central file server. Applications software on the network includes: WordPerfect, EXCEL, PowerPoint, and a variety of subject-specific software used in classroom instruction.

General computing labs are located on campus in Alter Hall, the CBA building, Elet Hall and the Cohen Center, with another being planned for the Student Center. Smaller computer study rooms are located in Buenger Hall, Xavier Village, and the McDonald Library. Networked workstations are PCs and Macs, with laser and dot-matrix printers being available in all labs.

Worldwide links, through the Internet, connect users at Xavier with users at millions of remote computers. Internet tools are: Telnet, FTP/Archie, Usenet, Listservs, and Gopher/ Veronica. Xavier University has a site on the World Wide Web (http://www.xu.edu) and is linked to other sites on the Web through the Netscape browser on PCs and Macs, and the Lynx browser on the VAX.

CAC maintains an extensive user education program by routinely offering mini-courses on selected topics of computing interest, promoting and supporting the formation of focused user groups on campus, and maintaining a library of self-teaching tutorials on the file server accessible from all networked workstations.

CAC also helps faculty with their computing projects and promotes the integration of multimedia into the curriculum, through the facilities of the Faculty Resource Center located in Alter Hall.

## Xavier University Art Gallery

513745-3811
Xavier University art gallery is a curricular laboratory of the department of art. The gallery provides exhibition opportunities for professional visual artists, the art department's students and other occasionak visual programs deemed to be of interest. Exhibitions follow the University academic calendar of fall and spring semesters.

## Study Abroad Programs

513745-3406
Xavier University encourages students to include a semester or a year of study abroad as part of their program of study. To this end, the director for study abroad assists students in planning for such studies and maintains a resource center of information on educational opportunities throughout the world. Normally, with careful planning, the credits obtained while studying abroad apply to the student's Xavier program of study and do not lengthen the time required to complete it.

Xavier participates in numerous programs abroad, usually through joint arrangements with other universities, particularly with other Jesuit universities. Xavier University has a direct student exchange agreement with Sophia University in Tokyo, Sogang University in Seoul, Universidad Javeriana in Bogota, all Jesuit universities, as well as the Katholische Universitat Eichstatt in Germany, and the Universidad de Valencia, in Spain. Through a long-standing endowed scholarship fund, Xavier University awards several Fredin Memorial Scholarships each year, which allow recipients to study for up to one calendar year at the University of Paris (Sorbonne).

In addition to the academic year programs, Xavier usually sponsors summer study programs in Austria, France, Mexico, Spain, Italy and the Netherlands. For detailed information, contact the director for study abroad, All study abroad must be approved in advance by the student's dean.

## Intercollegiate Athletics

513745-3413
Xavier University is a Division I member of the NCAA and a member of the Atlantic 10 Conference. The program of intercollegiate athletics for men includes basketball, golf, cross country, baseball, tennis, soccer, swimming and rifle (coed team). Women compete in intercollegiate basketball, tennis, swimming, cross country, golf, soccer, volleyball and rifle (coed team).

Participants in intercollegiate athletics, as in other co-curricular activities, must be full-time students in good standing. They must have entered the University in accordance with the admission standards published in the catalog and are subject to regular scholastic standards as well as those of the NCAA. To directly involve the president in the academic, social, spiritual, and physical development of Xavier's student athletes, this unit reports to the administrative vice president in the office of the president.

## Accreditation

The University is accredited by the North Central Association of Colleges and Schools Commission on Institutions of Higher Education. The Commission may be contacted at 30 N . LaSalle Street, Suite 2400, Chicago, Illinois 60602-2504, 1-800-621-7440. Xavier University is also accredited by 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 (ACS) for its training in chemistry, approved by the Ohio Board of Nursing for its nursing programs, and accredited by the National League of Nursing (NLN) Council of Baccalaureate and Higher Degree Programs for its nursing degree completion program, and the NLN's Council of Associate Degree Programs for its associate degree. Xavier is accredited by the Council on Social Work Education (CSWE) for its baccalaureate social work program, and
by the Joint Review Committee on Education in Radiologic Technology (JRCERT) for its radiologic technology program. Xavier's occupational therapy programs (bachelor of science degree and post-baccalaureate certificate program) are accredited by the Accreditation Council for Occupational Therapy Education of the American Occupational Therapy Association (AOTA). The Montessori program is affiliated with the American Montessori Society (AMS) and is accredited by the Montessori Accrediation Council for Teacher Education (MACTE). The graduate program in health services administration is accredited by the Accrediting Commission on Education for Health Services Administration. The College of Business Administration is accredited by the American Assembly of Collegiate Schools of Business (AACSB).

## WVXU-FM

513731-9898
From its beginning in 1970 as a 10 -watt station in a basement classroom at Xavier University. WVXU-FM and its seven-station X-Star Radio Network (the largest privately owned public radio network in the country) offer diverse programming to audiences in Ohio, Indiana and Michigan. Approximately 130,000 people tune in weekly to the network's innovative programming including news and business reports, radio dramas, and a variety of music formats. The X-Star Radio Network is affiliated with NPR, PRI, CNN and AP.

Recipients of numerous regional, national and international awards, WVXU-FM was the only individual radio station (commercial or public) to receive broadcasting's most prestigious honor, the George Foster Peabody Award, in 1995.

## 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 Academy of Religion; American Art Therapy Association; American Assembly of Collegiate Schools of Business; American Association for Higher Education; American Association for State and Local History; American Association of Colleges of Nursing; American Association of Collegiate Registrars and Admissions Officers; American Association of School Administrators; American Association of University Professors; American Catholic Philosophical Association; American Classical League; American College Personnel Administrators; American Correctional Association; American Council on Consumer Interests; American Council on Education; American Council on Teaching of Foreign Languages; American Film Institute; American Historical Association; American Library Association; American Management Association; American Mathematical Society; American Montessori Society; American Occupational Therapy Association; American Political Science Association; American Production and Inventory Control Society; American Society for Training and Development; Association for Communication Administration; Association for Computer Machinery; Association for Continuing Higher Education; Association for Quality and Productivity; Association for Women in Mathematics; Association of Catholic Colleges \& Universities; Association of College UnionsInternational; Association of Departments of English; Association of Governing Boards of Universities \& Colleges; Association of Independent Colleges and Universities of Ohio; Association of Jesuit Colleges and Universities; Association of Professors and Researchers in Religious Education; Association of University Programs in Health Administration; Broadcast Education Association; Canadian Historical Association; Canadian Sociology and Anthropology Association; Catholic Theological Society of America; Center for the Study of Democratic Institutions; Central Association of College \& University Business Officers; Central States Conference on Teaching of Foreign Languages; College and University Personnel Association; The College Board; College English Association of Ohio; College Theology Society; Conference on Partnership in Jesuit Higher Education; Consortium on Peace Research Education and Development; Council for Advancement and Support of Education; Council of Colleges of Arts and Sciences; Council on Undergraduate Research; Economic History Association; Greater Cincinnati Chamber of Commerce; Greater Cincinnati Consortium of Colleges and Universities; Greater Cincinnati Convention \& Visitors Bureau; Greater Cincinnati Library Consortium; Handweavers Guild of America; Hastings Center; Hebrew Union College \& Jewish Institute of Religion; Institute of International Education; International Business School Computer User's Group; International Reading Association; Jesuit Conference of Nursing Programs; Lilly Fellows Program in Humanities and the Arts; Linguistic Society of America; Mathematical Association of America; Metaphysical Society of America; Midwest Alliance In Nursing; Midwest Association of Student Financial Aid Administrators; Midwest Modern Language Association; Midwestern Association of Graduate Schools; Midwestern Collegiate Conference; Modern Language Association; National Academic Advising Association; National Art Education Association; National Association for Ethnic Studies; National Association of College Admission Counseling; 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 Committee on Planned Giving; National Council for the Social Studies; National Council of Schools of Professional Psychology; National League for Nursing; National Organization on Legal Problems of Education; National School Board Association; National Wildlife Federation; National Women's Studies Association; North American Academy of Liturgy; North American Association of Summer Schools; North American Association of Summer Sessions; North Central Association of Colleges \& Schools; North Central Association of Summer Schools; Ohio Academy of Sciences; Ohio Assembly of Deans \& Directors of Baccalaureate and Higher Degree Programs; Ohio Association of College Admission Counseling; Ohio Association of Colleges for Teacher Education; Ohio Association of Collegiate Registrars and Admissions Officers; Ohio Association of Private Colleges for Teacher Education; Ohio Association of

Student Financial Aid Administrators; Ohio Biological Survey; Ohio Campus Compact; Ohio College Association; Ohio Foreign Language Association; Royal Historical Society; Society for College and University Planning; Society for the Advancement of American Philosophy; Society for the Study of the Multi-Ethnic Literature of the U.S.; Society of Biblical Literature; Society for College \& University Planning; Society of Christian Ethics; Speech Communication Association - Ohio; Teachers of English to Speakers of Other Languages; The Tuition Exchange; World Trade Association.

## Honor Societies and Professional Fraternities

Alpha Sigma $N u$ 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.

Beta Gamma Sigma A National Honor Fraternity for AACSB accredited business programs. The Xavier chapter was founded in 1995. Membership is limited to those students in the top 7 percent of the junior class, top 10 percent of senior class and top 20 percent of graduating master's students.

Delta Sigma Pi The Theta Lambda Chapter of the International Fraternity of Delta Sigma Pi, a professional business fraternity, promotes academic achievement, leadership, and a closer affiliation between the business world and business students.

Eta Sigma Phi is an honorary society for students of the classics, established to develop and promote interest in classical studies and to foster closer relationships among students with this common interest. The Zeta Chi chapter was established at Xavier in 1995.

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

Mortar Board The D'Artagnan Chapter of Mortar Board was installed at Xavier in the spring of 1994. Mortar Board, founded in 1918 as the first national honor society for senior college women, is now a coeducational senior honor society which promotes equal opportunities among all people and emphasizes the advancement of the status of women. Members are chosen in recognition of their leadership, scholarship, and service.

National Society of Pershing Rifles The purpose of Pershing Rifles is to develop outstanding traits of leadership, military bearing, and discipline within the framework of a military oriented, honorary fraternity. Members are selected annually by representatives of the existing membership. Criteria for membership selection is leadership potential and academic grades. Elected members are awarded a purple fourragere to be worn with the uniform.

Omicron Delta Epsilon ODE is the international honors society in economics, with 535 chapters. The Xavier University chapter was founded in 1970. Among the objectives of ODE are recognition of scholastic attainment, the honoring of outstanding achievements in economics, and the establishment of closer ties between students and faculty in economics within the college and with other universities.

Phi Alpha Theta Kappa Nu Chapter of the international honor society of history is open to history students (whether majors or not) who have distinguished themselves academically.

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

PiMu 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 mathernatics.

Pi Theta Epsilon This national occupational therapy honor society recognizes scholastic excellence and provides a vehicle for professional students to exchange information, collaborate on scholarly activity, and contribute to the field of occupational therapy. Occupational therapy students are encouraged to apply for membership, with final selection determined by faculty and current Pi Theta Epsilon members. Membership is based on demonstrated leadership, service, professional association affiliation, scholarly activities, and academic excellence.

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 Delta Pi Rho Upsilon is Xavier University's chapter of the National Spanish Honor Society.

Sigma Pi Sigma The Xavier University chapter of Sigma Pi Sigma, national physics honor society, honors students having high scholarship and promise of achievementin physics, promotes their interest in research, encourages professional spirit and friendship among physics students, and popularizes interest in physics.

Xavier University Nursing Honor Society This society recognizes superior achievement and the development of leadership qualities, fosters high professional standards, encourages creative work, and strengthens commitment to the ideals and purposes of the nursing profession. Qualified students with a major in nursing are invited to join.


## UNDERGRADUATE ADMISSION

web site address is http://www.xu.edu

> Traditional student information email address is XUADMIT@admin.xu.edu Center for Adult and Part-Time Students (CAPS) information email address is XUCAPS@admin.xu.edu

## Application Process and Admission Requirements

Students applying to Xavier University must do the following:

1. Submit an "Application for Admission" form, which can be obtained from the Office of Admission 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 that the high school (and post-secondary institutions attended) forward directly to the Office of Admission or CAPS a complete and official transcript of the academic record.
3. Request that scores of the Scholastic Aptitude Test (SAT) or the American College Testing Program (ACT) be forwarded to the Office of Admission or CAPS.
4. Present proof of MMR (mumps, measles, and rubella) immunization. Traditional age incoming freshmen and transfer students who have not presented proof of immunization will not be eligible for registration the following semester.
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 Admission for anticipated closing date.

Candidates for admission must graduate from high school with a minimum average grade of "C+," or have an acceptable score on the G.E.D. Some applicants whose averages are lower may be considered at the discretion of the Admission Committee. 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
Students must submit proof of health insurance or purchase health insurance through Xavier University prior to the start of classes. Further information will be sent to admitted students.

## High School Equivalence (G.E.D.)

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 Admission, or if they are applying to the Center for Adult and Part-time Students (CAPS), to that office.

## Admission Through the Center for Adult and Part-Time Students (CAPS) email address is XUCAPS@admin.xu.edu

Degree seeking students who are 22 years of age or older may apply to Xavier University through the Center for Adult and Part-Time Students. The Center also provides academic advising, financial assistance, and registration services to its students. Note: Students 22 years of age and older who wish to pursue Nursing, Occupational Therapy, or Radiologic Technology should apply through the Office of Admission.

## Non-Degree Admission

Students who wish to take undergraduate courses but not pursue a degree at Xavier must apply through the Center for Adult and Part-Time Students.

## Provisional Admission

Provisional admission may be granted by the Director of Admission or the Dean 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.

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

Entering students may 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 passing grade. An official transcript must be sent to Xavier's Office of Admission.

## 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 Office of Admission.

## Additional Enrollment Options for High School Students

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

## Summer Junior Program:

Offered to high school students who have completed their junior year and who have a grade point average of at least " B " and satisfactory PSAT and/or ACT scores. Accepted students may take one course from selected offerings during the regular summer sessions at a nominal tuition charge. Contact your high school advisor for more information.

## Post-Secondary Enrollment Option:

Xavier University participates in this program which allows superior high school juniors and seniors to attend the University at no charge during the regular academic year. Contact the Xavier Office of Admission for more information.
High School Students:
Regular undergraduate courses may be taken during any semester with the written approval of the principal or advisor. Students attending under this option are responsible for all usual tuition and fee charges. Contact the Center for Adult and Part-time Students (CAPS) for more information.

## Collegium:

Xavier University offers a unique opportunity for qualified high school students to earn college credits for successfully completing advanced high school courses that have been selected to be part of the University's Collegium program.
The program is open to superior junior and senior students at participating high schools. It is intended for those students who have high grades in school and are
judged by their faculty to have the competence, motivation, and maturity to earn college credit in advance of high school graduation. Students should be recommended by a teacher and regarded as capable of performing "B" or better work in the proposed course.

## Summer Academic Bridge Program

The Summer Academic Bridge program is designed to help selected freshmen strengthen specific areas of their academic backgrounds prior to beginning their freshman year at Xavier. Through this program, the University tries to help a maximum of 30 students each year "bridge the gap" in theiracademic backgrounds by providing them the following: small structured classes, one-on-one or group tutoring, counseling, and appropriate courses - English, effective reading/study, mathematics or theology. Students earn seven hours of elective credits during the summer, and they must pass 3 courses and achieve a cumulative grade point average of 2.000 or better in order to enroll in the fall.

These students are selected for the program by Xavier's Admission Committee. The selection is based on the high school GPA, SAT and/or ACT scores, comments and recommendations of high school counselors, and evidence of a strong motivation for success in college.

## Undergraduate Reactivation

An undergraduate student who previously attended Xavier and has not been registered for one year is required to complete a Reactivation Form before registering. The form is available in the Office of the Registrar. Applicants who want credit for coursework taken at another university during their absence from Xavier must submit a transcript to the Office of the Registrar. See the entry under Transfer Students below for time limitations on the acceptance of coursework. Students are reactivated under the current catalog year, unless an exception is made by the dean.

Students suspended from Xavier or from other institutions for poor scholarship will not be eligible for reactivation before the lapse of at least one fall or spring semester. In all cases, reactivation and the conditions for such will be determined by the dean of the appropriate college. All prior financial obligations must be settled with the Office of the Bursar prior to reactivation, and the student must be in good standing with the Division of Student Development.

## Transfer Students

Xavier University accepts qualified students from other regionally accredited institutions of higher education. In addition to the credentials required of all freshmen applicants, transfer students must forward to the Office of Admission 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. Credit is given for all academic courses (except coop and life experience) in which a passing grade ("D" or better) has been received. Certain programs require a grade of "C" or better. Consult with the department chair.

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 for all undergraduate degrees. At least 60 hours toward a bachelor's degree must be earned in accredited four-year institutions. At least one-half of the business core must be completed at Xavier University for business majors.

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 general electives will usually be accepted.

Traditional-aged transfer students must meet the on-campus housing requirement. See Student Services section.

The waiver policy on the university core curriculum is as follows:

1. The Ethics/Religion and Society Focus elective course will be waived for students who transfer 60 or more credit hours.
2. Students with one transferred 3 -credit literature course must take "Literature and the Moral Imagination" as their second literature course. Students with two transferred 3-credit literature courses will have fulfilled the literature requirement.
3. For the subjects of Philosophy, Science, and Theology, the following table lists the number of credit hours in that subject that must be completed at Xavier:


Transfer students completing 9 credits in Philosophy ac Xavier take PHIL 100, PHIL 290 , and PHIL elective. Those completing 6 credits at Xavier take only PHIL 100 and PHIL 290. Those completing 3 credits at Xavier take only PHIL 100.

Transfer students completing 9 credits in Theology at Xavier take THEO 111, THEO Elective in Scripture-History/Christian Systematics, and THEO Elective in Theological Ethics/Religion and Culture. Those completing 6 credits at Xavier take THEO 111 and THEO elective in Scripture-History/Christian Systematics. Those completing 3 credits at Xavier take only THEO 111.

Students who transfer in two credit hours of a three-hour requirement may have the third hour waived. Contact the dean's office regarding this process.

## Non-degree Students

Students who do not wish to pursue a degree may be admitted, advised and registered through the Center for Adult and Part-Time Students (CAPS) as special "non-degree" students. A student wishing to change from non-degree status to degree status must apply for admission to the University as a degree-seeking student, and must meet regular transfer admission standards.

## Concurrent Admissions

Students who pursue an associate's degree at Cincinnati State Technical and Community College can continue with a "seamless transition"towards the bachelor's degree at Xavier University. Preference will be given to Cincinnati State students who pursue the Associate of Arts or Associate of Science degree. Preference is also given to students accepted into one of the articulation agreement programs developed by both institutions.

Requests for information should be referred to the Director of Transfer Admission at either campus.

## International Students

email address is XUGLOBAL@admin.xu.edu
To be considered for admission to Xavier University, international students must submit the following documents:

1. An application form.
2. An English translation of a secondary school (high school) degree or the diploma/ certificate of the highest academic degree earned.
3. Evidence of English language proficiency. A TOEFL (Test of English as a Foreign Language) test score of 500 for undergraduates is required. Students who want to improve their English skills can enroll in Xavier's ESL (English as a Second Language) program. To enter degree programs, undergraduate ESL students at Xavier are required to obtain a TOEFL score of 480 (or equivalent) and an average of " B " in ESL courses.
4. (a) An affidavit of support from student or sponsor, stating that all expenses will be paid, and
(b) a separate statement from an official source to show that the student or sponsor is able to meet the expenses.
5. For transfers, an official transcript from each college or university attended is required. All transcripts must contain an official signature and institutional seal.
All documents must be received by the Office of Admission before a Form I-20 will be issued. International students who have been admitted to the University must meet the University's campus housing requirement (see Student Development section).

Prior to the start of classes, students must submit an immunization record and medical history. International students must also have health insurance equivalent to what is offered through Xavier University.

## Student Responsibility

It is the responsibility of the 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 advisor 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. Alltuition and fees paid and credit earned are forfeited under such dismissal.

## Veterans' Education

Xavier University is approved for the education and training of veterans and their eligible dependents under all existing public laws. Requests for information should be referred to the Director of Veterans' Educational Benefits, Office of the Registrar, Xavier University. Xavier is a Servicepersons Opportunity College (SOC). The toll free number forDVA and SOC information is 1-800-827-1000.

## Reservation of Rights

Xavier reserves the right to modify its graduation and other requirements as deemed necessary from time to time. The University will attempt to 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 their dean.


# UNDERGRADUATE SCHOLARSHIPS AND FINANCIAL AID 

The Office for Financial Aid's purpose is to provide the best possible service and information to students financing a Xavier education.

The office is located in Walker Hall, 1500 Dana Avenue. Office hours are Monday-Friday 8:30 a.m. - 5:00 p.m., and Saturdays by appointment, (513) 745-3142. Email address is XUFINAID@admin.xu.edu

## Standards of Academic Progress

The Higher Education Act of 1965 , as amended, requires Xavier University to develop and enforce standards of satisfactory academic progress prior to awarding any federal financial aid funds to students. Standards of satisfactory academic progress were established to encourage students to "successfully complete" courses for which federal financial aid is received, and to progress satisfactorily toward degree completion. "Successful completion" of a course is defined as receiving one of the following grades: $A, B, C, D$, or $S$.

The standards apply to the following financial aid programs: Federal Pell Grant, Federal Supplemental Educational Opportunity Grant, Federal Work Study, Federal Perkins Loan, Federal Stafford Loan, Federal Parent Loan for Undergraduate Students (PLUS), and Xavier funds.

The criteria used to determine academic progress are grade point average, annual completion rate, and maximum timeframe for completion of educational objective. At the end of Spring semester, the Office for Financial Aid reviews students' progress during the previous three semesters. All periods of enrollment are reviewed, including semesters during which no financial aid was received.

QUALITATIVE REQUIREMENT - GRADE POINT AVERAGE
Undergraduates
Students who have not yet completed two academic years must have a minimum cumulative GPA of 1.750 .

Students who have already completed two academic years must have a minimum cumulative GPA of 2.000 .

## Graduates

Students must maintain a cumulative GPA of at least 2.800 .

## QUANTITATIVE REQUIREMENT - ANNUAL COMPLETION RATE

In order to complete a degree within the maximum time allowed by federal regulations, students must successfully complete a minimum of $67 \%$ of the credit hours attempted each academic year (Attempted hours are hours for which a charge was incurred, excluding audited hours). The academic year begins with Summer semester and ends with Spring semester.

## MAXIMUM TIMEFRAME FOR COMPLETION OF EDUCATIONAL OBJECTIVE

Undergraduate students must complete their degree program within $150 \%$ of the published length of their degree program. For example, if a major requires 120 credit hours to graduate, a student could not receive financial aid beyond 180 credits attempted (including transfer hours) whether or not financial aid was received for those credits.

## INCOMPLETE GRADES

Incomplete grades are calculated as an " F " until the incomplete grade is changed to a complete grade.

## MULTIPLE RETAKES

Repeated courses affect academic progress as follows:
GPA - Only the most recent grade counts in the student's GPA
COMPLETION RATE - Each time a course is repeated it will be counted as
"attempted hours."
MAXIMUM TIMEFRAME - Each time a course is repeated it will be counted as "attempted hours."

## REMEDIAL COURSEWORK

Remedial courses receive letter grades and therefore are treated the same as other courses for satisfactory academic progress purposes. If a student who was enrolled in remedial coursework does not maintain the minimum academic standards and he or she requests an appeal, the financial aid appeal committee will take into consideration the courses in which the student was enrolled.

## TRANSFER HOURS

Transfer hours count only toward the overall maximum timeframe calculation. Transfer hours have no effect upon the cumulative grade point average.

## TIMING OF REVIEWS

Prior to the beginning of each academic year, academic progress will be reviewed for all students who received federal financial aid during the previous year. Continuing Xavier students applying for financial aid for the first time must also be meeting the minimum satisfactory academic progress requirements. Academic progress for continuing students who were not previous financial aid recipients will be reviewed when the Office for Financial Aid receives the application for financial aid. At the time of the review, students who are not meeting the minimum requirements for GPA or Completion Rate will be ineligible for aid for the next year.


#### Abstract

APPEALS If extenuating circumstances prevented a student from making satisfactory progress, the decision to forfeit aid may be appealed. Circumstances which are considered extenuating are those that are unusual and/or unforeseen at the beginning of the year, such as: injury or illness of the student, death of a close relative, or other situations which were unexpected and beyond the student's control. Allowances can also be made for students who have a documented disability. Appeals should be made in writing to the Xavier Financial Aid Committee, in care of the Director of Financial Aid. Students are notified by mail of the results of their appeal. Students whose appeals are approved will be eligible for financial aid for the next year on a "Conditional Status" (see below).


## CONDITIONAL STATUS

While on Conditional Status, students must successfully complete every credit attempted. Therefore, financial aid eligibility for each consecutive semester is contingent upon the student successfully completing his or her prior semester. If a student does not successfully complete a semester, financial aid is forfeited for all remaining semesters in the financial aid year.

## REINSTATEMENT OF ELIGIBILITY

If a student appeal is denied, the student must satisfactorily improve his or her cumulative grade point average and/or make up the deficient credit hours without federal financial aid in order to regain eligibility for the following year. Students who have forfeited their financial aid because of failure to meet the academic standards will not be eligible for financial aid for one year. If a student returns to Xavier after one academic year has passed, he or she will be eligible for financial aid on a Conditional Status (unless aid was forfeited because the student reached the maximum timeframe limit).

## Information Sources

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

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

## SCHOLARSHIPS

## Regulations Concerning Scholarships

1. With the exception of the Xavier Service Fellowships and the Fredin Memorial Scholarships, all Xavier-sponsored scholarships are applicable to tuition only. They may not be applied to the cost of room, board, fees, or summer school courses, nor are they applicable to courses taken during the senior year in the programs of Medical Technology, Applied Biology, Applied Chemistry and Applied Physics.
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 Office of Financial Aid, and they are forfeited in the event that the recipient does not enroll.
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 Scholarship Committee of Xavier University. The committee reserves the right to adjust the scholarship stipend if the holder receives financial aid from some other source.

## The Xavier Undergraduate Service Fellowships

These full tuition, full room and board fellowships are four year scholarships awarded annually to five first-year students who have demonstrated high academic achievement, outstanding service to community, school and/or church, and leadership in encouraging others to serve. The recipient of the Fellowship must perform a specified amount of community service in the greater Cincinnati area each week of the academic year for all four years. Selected Fellows give part of their time to the promotion of service on the Xavier campus. Fellowships are renewable each year for four years if the recipient maintains full-time status and a minimum cumulative grade point average of 3.000 in the freshman year and 3.250 cumulative average thereafter.

## St. Francis Xavier Scholarships

These full-tuition scholarships are awarded annually to incoming freshmen in recognition of superior leadership talent and the highest academic achievement. They are renewable for four years if the recipient maintains full-time status and a minimum cumulative grade point average of 3.000 in the freshman year and 3.250 cumulative average thereafter.

## Trustee, Presidential, and Honor Scholarships

These partial tuition scholarships are awarded to incoming freshmen in recognition of superior talent and high academic achievement. Further information about these awards can be obtained by contacting the Office for Admission or the Office for Financial Aid. These scholarships are renewable each year for four years if the recipient maintains full-time status and a minimum cumulative grade point average of 3.000 .

## 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 24 hours at Xavier with a cumulative average of at least 3.000 . Students must be full-time and must complete the necessary financial aid applications. For more information, contact the Office for Financial Aid.

## Departmental Scholarships

Six departments -- Chemistry, History, Classics (Latin), Mathematics, Modern Languages (French or Spanish) and Physics -- each offer one $\$ 2,000$ scholarship to the incoming freshman who scores highest on the departmental examination administered on campus each year. Details are available from the Office for Admission. These tuition restricted awards are given in addition to any other partial scholarship 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 maintains a 3.000 cumulative grade point average.

## 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 Office for Admission for further details.

## Edgecliff Awards

These partial tuition grants are awarded to students based on high academic achievement with consideration for 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 remains in good academic standing. Application forms are available in the Xavier Alumni Office.

## Fredin Memorial Scholarships

Each year the Fredin Scholarship Committee awards 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 are awarded to students majoring in Montessori Education. Further information is available in the Montessori Education Office.

## Schawe Scholarship

This partial tuition scholarship is awarded to incoming freshmen from Jesuit high schools in recognition of high academic achievement. Further information can be obtained from the Office for Admission. This scholarship is renewable each year for four years if the recipient maintains full-time status and a minimum cumulative grade point average of 3.000 .

## Western-Southern Life Nursing Scholarship

This $\$ 4,000.00$ scholarship is awarded to a minority freshman majoring in nursing. Further information can be obtained from the Office for Admission.

## Transfer Scholarships

These partial tuition scholarships are awarded to transfer students in recognition of high academic achievement. The scholarships are renewable for up to seven semesters provided the recipients maintain a cumulative GPA of at least 3.000 . Further information can be obtained from the Office for Admission.

## Weninger Scholarship

These scholarships are awarded to incoming African American freshmen in recognition of high academic achievement. The scholarship value ranges from partial to full tuition. These scholarships are renewable each year for four years if the recipient maintains a 3.000 cumulative grade point average. Information can be obtained from the Office for Admission.

## Summers Nursing Fellowship

A full tuition fellowship is awarded once every four years to a first year nursing student from northern Kentucky enrolled in the four year Bachelor of Science Nursing Program. The student must demonstrate a record of interest in health care and a commitment to nursing as a career. The fellowship is renewable for four years if the student remains in the nursing program, maintains a cumulative grade point average of at least a 3.000 and volunteers 25 hours per month in an approved health care setting. Further information is available from the Department of Nursing.

## The Jack G. and Mary C. Downing Faculty/Student/Mentor Scholarships

Partial tuition scholarships are awarded to upperclass students in the College of Business Administration interested in undergraduate research directed by a college faculty member. A member of the college's Business Advisory Council serves as a mentor to the student. Further information is available in the Office of the Dean of the College of Business Administration.

## The Pedro Arrupe Scholarship

One full-tuition scholarship is awarded once every four years to an incoming AfricanAmerican 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 Office for Financial Aid.

## ROTC Scholarships

The Department of the Army annually awards ROTC Scholarships to outstanding students. Information regarding all ROTC awards can be obtained by contacting the Xavier University Military Science Department.

Scholarships are also available through the Air Force ROTC at the University of Cincinnati. Students may enroll in this program through the Greater Cincinnati Consortium of Colleges \& Universities. For more information, contact the Department of the Air Force at the University of Cincinnati, (513) 556-2237.

## OTHER FINANCIAL AID

Contact the Office for Financial Aid for information and assistance.

## Tuition Payment Plans

Several payment plans, ranging from installments to Employer Reimbursement, are available through the Office of the Bursar. For further information, contact the Office of the Bursar at (513) 745-3435.

## Automated Searches

Students can search for private financial aid sources by using FASTWEB on the World Wide Web. To access this service, use the web address: htp://www.fastweb.com.

## Xavier Tuition Grants

Xavier University awards tuition grants to students who demonstrate financial need. Students must complete the Free Application for Federal Student Aid (FAFSA), available at high schools and colleges.

## Ohio Student Choice Grant (OSC)

OSC is a tuition restricted state grant available to Ohio residents who are enrolled full-time in their first baccalaureate degree program. Students could not have been enrolled full-time in a college or university prior to July 1, 1984.

## Ohio Instructional Grant (OIG)

OIG is a tuition restricted state that grant provides need-based assistance to full-time undergraduate students from low and moderate income families who are Ohio residents. State determines eligibility based on family income and number of dependents in the family. Amount of grant varies between public and private colleges and universities.

## Family Grants

Xavier University provides partial tuition grants when there are two or more siblings enrolled full-time at Xavier during the same semester. Contact the Office for Financial Aid for additional information.

## Part-Time Student Instructional Grant (PTSIG)

PTSIG is a tuition restricted state grant program which provides need-based assistance to part-time undergraduate students from low and moderate income families who are Ohio residents. Eligibility is based on family income and number of dependents in the family. The amount of grant varies depending on hours enrolled.

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

The Center for Adult and Part-time Students (CAPS) awards grants to students registered through CAPS, including the Weekend Degree Program. The grants are based on financial need and are generally only awarded to students who do not receive other forms of financial aid. For further information contact the CAPS office, (513) 745-3355.

## Athletic Grants-in-Aid

These grants are available through the Office of Athletics. Contact the Office of Athletics for information and assistance (513) 745-3413.

## 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 as a regular student in a degree or certificate program.
4. Not be in default on any federal loan or owe a refund on a federal grant.
5. Have demonstrated financial need.

## Federal Pell Grant

The Pell Grant Program provides grants to students with exceptional financial need.

## Federal Supplemental Educational Opportunity Grant (SEOG)

A Supplemental Educational Opportunity 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 amount of the awards is limited by federal funding.

## Federal Work-Study Program (FWS)

The Federal Work-Study Program provides jobs for students who demonstrate financial need. Earnings for this program are funded by the federal government and the university. The student's total FWS 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.

## Federal Perkins Loan

The Perkins Loan is a low-interest loan to assist students with financial need. Recipients are selected by the University. Repayment begins on a monthly basis within nine months after the borrower ceases to be at least a half-time student.

## Federal Stafford Loan (subsidized)

A Stafford Loan is a low interest loan made to college students by commercial lending institutions. 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.

## Federal Stafford Loan (unsubsidized)

Similar to the subsidized Stafford, except the student is responsible for interest payments while enrolled. Eligibility is not based on financial need.

## Parent Loan for Undergraduate Students (PLUS)

Parents may borrow up to the total cost of attendance (tuition, room, board, books, etc.), minus financial aid, for each of their dependents attending college. There is no limit on family earnings. The interest rate is variable. Interest begins at disbursement of the funds and the parents start making repayments approximately 60 days after disbursement. The loan must be completely repaid within 10 years from the most recent loan.

## 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 these permanent endowments is used to award these University-sponsored scholarships:

Florence \& Laura Albers Memorial Scholarship
George Alden Trust Scholarship
Audrey C. Alonso Memorial Scholarship
Mr. \& Mrs. William L. Alter Scholarship
Alumni Chapter Scholarships - Cleveland, Columbus, Dayton, Detroit, Indianapolis, Toledo
Charles B. Amann Memorial Scholarship
William and Carol Anneken Scholarship
Robert Antonelli Memorial Scholarship
Pedro Arrupe, S.J., Memorial Scholarship
Msgr. Charles E. Baden Memorial Scholarship

Paul A. Bardon Memorial Scholarship<br>Dr. Charles M. Barrett, '34, Memorial Scholarship<br>Beckman Family Scholarship<br>C. Robert Beime Memorial Scholarship<br>Lester I. Besl Memorial Service Fellows Scholarship<br>Rev. Clifford S. Besse, S.J., Memorial Scholarship<br>Blakely Family Memorial Scholarship<br>Edmund J. Bradley Memorial Scholarship<br>J. Peter Brady Memorial Scholarship<br>Brennan Corporation Scholarship<br>Mother Hilda Brennan Memorial Scholarship<br>Mildred C. Brinn Memorial Scholarship<br>Albert F. and Bernadetta Broering Memorial Scholarship<br>- in memory of Rev. Theodore Rolfes and Ada M. Rolfes<br>Rev. Edward B. Brueggeman Memorial Scholarship<br>Gordon and Nadine Brunner Scholarship<br>Clem and Ann Buenger Scholarship<br>John R. Bullock Memorial Scholarship<br>Henry Bunker Memorial Scholarship<br>Paul \& Betty Burkhart Scholarship<br>Raymond L. Buse Memorial Scholarship<br>Anne D. Butz Memorial Scholarship<br>Kathleen McDonough Buzek Memorial Scholarship<br>Joseph and Kathleen Caito Family Scholarship<br>Centennial Scholarship<br>Ralph W. Chambers, '48, Memorial Scholarship<br>Helen Clark Scholarship<br>C. A. Clasgens Memorial Scholarship<br>Class of 193150 th Anniversary Scholarship<br>Class of 1932 S0th Anniversary Scholarship<br>Class of 1933 50th Anniversary Scholarship<br>Class of 195625 th Anniversary Scholarship<br>Class of 195825 th Anniversary Scholarship<br>Class of 196125 th Anniversary Scholarship<br>Class of 1969 Scholarship<br>Class of 1970 Scholarship<br>Class of 1971 Scholarship<br>Class of 1973 Scholarship<br>Class of 1974 Scholarship (in memory of Doreen Jankowski)<br>Class of 1985 Scholarship<br>Ralph and Julia Cohen Scholarship<br>Cohen Foundation Scholarship<br>Michael J. and Margaret A. Conaton Family Scholarship<br>Helen and Harry Cordesman Memorial Scholarship<br>James H. and Mary S. Curran Memorial Scholarship<br>Jack Currus Memorial Scholarship<br>Raymond and Grace Daley Memorial Scholarship<br>M. Thomas and Martha Dalton Scholarship<br>Deacon Family Memorial Scholarship<br>Gerald J. DeBrunner Accounting Scholarship

William H. Deddens Memorial Scholarship
Helen Hennigan Diehl - Thomas J. Klinedinst Scholarship
Rev. Albert Dierkes, S.J., Memorial Scholarship
The Dornheggen Memorial Scholarship
Jack G. \& Mary C. Downing Faculty/Student/Mentor Scholarships
Robert and Rita Driehaus Scholarship
James W. Duff Scholarship
Jesse K. Dunn Memorial Scholarship
Joseph E. Ebertz Memorial Scholarship
Edgecliff Scholars Scholarship
John Eick Memorial Scholarship
Jerome and Mary Jean Esselman Scholarship
James R. Favret/DH\&S Memorial Scholarship
Raymond and Frances Fellinger Memorial Scholarship
The Fifth Third Bank/Jacob G. Schmidlapp Scholarships
Mary Flaspohler Memorial Scholarship
Charles Fleischmann Endowment Scholarship
Anna Louise Flynn Memorial Scholarship
Rev. Lawrence J. Flynn, S.J., Memorial Scholarship
John A. Fogarty Scholarship
Foss Family 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 Memorial Scholarship
John P., Sr., John P., Jr., '57, and Gertrude Haley Memorial Scholarship
Rita Elsaesser Harpenau Memorial Scholarship
Rev. Gilbert Hartke Performing Arts Scholarship
Robert F. Hartman Scholarship
Frederick A. Hauck Physics Research Scholarship
Hershey Foods Minority Scholarship
Rev. William P. Hetherington, S.J., Memorial Scholarship
Mrs. F. W. Hinkle Memorial Scholarship
Harry Hocks Memorial Scholarship
James \& Lydia Hoff Memorial Scholarship
Hon. Timothy S. Hogan, '30, Memorial Scholarship
Louis J. Homan Memorial Scholarship
Charles Housley Scholarship
David and Rosemary Huhn Scholarship
Thomas K. Jenkins, Jr., Memorial Scholarship
Antonio Johnson Memorial Scholarship
Richard A. Jones Memorial Journalism Scholarship
Hugh Patrick Kielty Memorial Scholarship
Marianne \& Donald P. Klekamp Scholarship
Thomas J. Klinedinst, Sr., Memorial Scholarship
Otto and Carolyn Knop Family Scholarship

Robert J. Kohlhepp Family Scholarship
David and Tina Kohnen Scholarship
David and Shirley Kriegel Scholarship
Eva Kroger Memorial Scholarship
John and Marguerite Kron Scholarship
Leo G. Kuhlman Memorial Scholarship
Otto Kvapil Memorial Scholarship
Glen A. LaGrange Memorial Scholarship
Anthony Lair Family Scholarship
Margaret C. Link Memorial Scholarship
A.J. \& Paulina Howes 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
Roland \& Margo Moores Scholarship
Marvin J. Moran Memorial Scholarship
John L. Muething Family Scholarship
Rev. Robert W. Mulligan, S.J., Scholarship
NJSHMG Scholarship
Mary E. Nebel Memorial Scholarship
James \& Julie Neumann Scholarship
John H. Newman Memorial Scholarship
Donald and Phyllis Neyer Scholarship
John F. Niehaus Memorial Scholarship
Katherine Niehaus Memorial Scholarship
Rev. Victor B. Nieporte, S.J., Memorial Scholarship
Louis \& Louise Nippert Fine Arts Scholarship
Mary and Al Nurre 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
Thomas and Patricia O'Donnell 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
Joseph and Susan Pichler Scholarship
Rev. William F. Poland, S. J., Memorial Scholarship
A. Poplis Family Memorial Scholarship

Procter \& Gamble Scholarship
Glen Randolph Scholarship
Joseph B. Reynolds Memorial Scholarship
Lr. Robert T. Rice, Jr., Memorial Scholarship

William J. \& Mary K. Rielly Scholarship
Giles K. Riley 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 Scholarship
Rev. William J. Schmidt, S.J., Memorial Scholarship
Danny Scholl Memorial Music Scholarship
Jacob W. Schweizer Memorial Scholarship
Frank \& Loretta Sedler Memorial Scholarship
Lawrence W. Selzer, '31, Memorial Scholarship
Mary B. Shannon Memorial Scholarship
Mary Claire Shaunnessy Memorial Scholarship
Margaret Shea Memorial Scholarship
Thomas Siemers Family Scholarship
Janet and Ralph Sieve Scholarship
Sisters of Mercy Scholarship
Dr. James H. Spraul, '53, Memorial Scholarship
George Springmeier Memorial Scholarship
Rev. Victor Stechschulte, S.J., Memorial Scholarship
Sherri Lee Stiefler Memorial Scholarship
Elizabeth Sullivan Memorial Scholarship
Ann and Mary Summers Memorial Nursing 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
Peter J. Viviano Athletic 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. Wiethe, '34, Memorial Scholarship
Elizabeth Ryan Williams Memorial Scholarship
William J. Williams Family Scholarship
Worpenberg Family Memorial Scholarship
G. Milton Wurzelbacher Memorial Scholarship

Xavier Parents' Club Scholarship
E. Nelson Zoeller Memorial Scholarship


## UNDERGRADUATE ACADEMIC POLICIES AND REGULATIONS

## General Policies

The policies listed here affect all undergraduate students. Some degree programs have special policies which are specified within individual program descriptions. The general policies which affect both undergraduate and graduate students begin on page 65.

## Classification and Enrollment Status of Undergraduate Students

1. Freshmen - students have earned 1 through 23 credit hours
2. Sophomores - students have earned 24 through 54 credit hours
3. Juniors - students have earned 55 through 89 credit hours
4. Seniors - students have earned a minimum of 90 credit hours
5. Non-degree - students who have not declared themselves candidates for a degree at Xavier
6. Visiting (transient) - 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. Full-time: summer, fall or spring - any student attempting 12 or more semester credit hours
9. Part-time: summer, fall or spring - any student attempting up to 11 semester credit hours (three-quarter time is $9-11$ semester credit hours; half-time is $6-8$ )

## Undergraduate Grading System

A = Exceptional
B = Good
C = Satisfactory
$\mathrm{D}=$ Minimum passing
$\mathrm{F}=$ Failure
$\mathrm{VF}=$ Failure to officially withdraw
$\mathrm{W}=$ Official withdrawal

I = Incomplete, changed when grade is assigned. See Incomplete work, page 36.
AU = Audit, no credit or grade earned
$\mathrm{S}=$ Passing/Satisfactory, credit earned, no effect on GPA
$\mathbf{U}=$ Not passing/Unsatisfactory, no credit eamed, GPA is affected
NC = No credit earned, non-graded class

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. "S/U" grades are given in certain pass/fail courses, in place of letter grades. The grade of " S " does not equate with letter grades and is transferable to other universities only upon their approval.

## 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 for the course. Quality points are calculated as follows:
$A=4$ points per credit hour
$B=3$ points per credit hour
$\mathrm{F}=0$ points per credit hour
$\mathrm{C}=2$ points per credit hour
$\mathrm{VF}=0$ points per credit hour
$\mathrm{D}=1$ point per credit hour
I $=0$ points per credit hour
$U=0$ points per credit hour
The student's term grade point average (GPA) is computed by dividing the total number of quality points by the total number of quality hours in that term. "W", "AU", "S", and "NC" grades are not calculated into quality points, nor quality hours. The cumulative GPA is based on all terms at Xavier.

The semester hours in courses in which an " S " (satisfactory) grade is earned will count toward the University's minimum semester hour requirement of 120 for graduation with a baccalaureate degree or 60 with an associate degree. However, if the grade earned is "U" (Unsatisfactory), both the credit hours and the quality points are computed into the student's cumulative grade point average. A grade of "W" may be assigned in a pass/fail class if the student withdraws or stops attending.

## Course Numbering

Courses are numbered in the following way:
100 to 199 - undergraduate lower division courses
200 to 499 - undergraduate upper division courses
500 and above - graduate level courses; open only to graduate students

## Credit Hours

A credit hour is equivalent to fifteen class hours per term. 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 credit hours which each course carries is provided in the course description section of this catalog. The courses are listed in numerical order within the various departments.

## Prerequisites

When selecting courses, students must adhere to required prerequisites and special course restrictions established by the colleges and academic departments. Prerequisites must be passed with the minimum acceptable grade before subsequent courses may be taken.

## Excess Credit Hour Courseload

The following maximum course loads may only be exceeded with permission from the student's dean, even if the additional hours are to be taken for audit. Excess hours carry additional fees, unless departmental policy requires the excess.

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

## Auditing Courses

Anyone wishing to audit a course may do so. An audited course does not carry credit or earn quality points or fulfill a requirement. Regular tuition rates apply. If audit requirements are not met a "W" grade may be assigned. See page 67 for additional information.

## Dean's List

In any term, undergraduate students who complete at least six credit hours for grades (A, B, C, $D, F, V F, I, U$ ) with a grade point average of at least 3.500 are placed on the Dean's List for that term.

## Incomplete Work

Course assignments are due at the time specified by the instructor. Extension of time beyond the termination of the course is rarely granted and only for a serious reason. If an extension of time is granted, the grade of " I " (Undergraduate Incomplete) will be assigned and calculated as an " $F$ " in the grade point average. Unless the work is completed and submitted by the fifteenth calendar day of the academic semester following the course, the student will fail the course (Summer term is excluded) and the "I" will be permanently changed to a corresponding grade of "F." Exceptions to this policy must be approved in writing by the appropriate dean prior to that date. The faculty member initiates the grade change process once the student has made up the incomplete work. Deadlines for short-term courses may vary; please refer to program handbook or director.

A student missing the final examination of a course receives an " F "or "VF" 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 in each semester's Schedule of Classes bulletin.

If the student is deferred for graduation due to a grade of Incomplete, he or she may be eligible for the original date of graduation. Work must be completed, graded and recorded within thirty calendar days of that term's graduation date.

## Undergraduate Enrollment in Graduate Courses

A currently enrolled Xavier University undergraduate student may begin graduate course work as a non-degree graduate student if the student is within 12 hours of completing the undergraduate degree. The student must be in good academic standing and must obtain written approval from the appropriate dean and program director. The student must complete the nondegree graduate application for admission and return it to the Graduate Services Office or the MBA Office with the written permission attached.

All graduate courses taken will be for graduate credit only; the credit hours completed for graduate credit may not count towards the student's undergraduate degree. No more than 6 credit hours taken as a non-degree graduate student may apply toward a graduate degree. Some courses are not available to non-degree graduate students.

NOTE: Students enrolled in the "Accounting 150 Credit Hour Program" should consult their department for exceptions to these policies.

## Class Attendance

In order to earn credit in any course for which he/she is registered, 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 and missedclass and test procedures are determined by the individual faculty members.

## Courses at Other Institutions

## Consortium Courses

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 computed into the student's Xavier grade point average. For a list of the consortium schools, see page 12 of this catalog. The student must be at least halftime and must bring written approval for consortium enrollment from the dean of his/ her college to the Office of the Registrar. Contact the Office of the Registrar for more information.

## Non-Consortium Courses

Students desiring to take courses at an accredited non-consortium university must receive prior approval from their 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 a grade of "D" or better was earned. The grade is not placed on the student's Xavier record, nor is it computed into the student's Xavier grade point average.

## General Electives

General electives are fulfilled by courses of the student's choice as long as appropriate prerequisites are completed. Students may not apply more than 12 hours of any business area or 30 hours of total business courses toward electives.

## 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, change or addition of a major is handled through the office of the dean. 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 academic record, but only one degree is conferred, namely the one that corresponds to the student's primary major. The student must complete the core curriculum requirements of the primary major. The core curriculum requirements of the secondary major need not be completed unless a business major is elected as the secondary major. In this case, the requirements of the "business core" must also be met (see page 162).

Regardless of hours counted for more than one major, associate degrees require a minimum of 60 semester credit hours and baccalaureate degrees require a minimum of 120 semester credit hours.

## The Minor

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

Guidelines for minors are as follows:

- must contain a minimum of 15 credit hours;
- at least half of the credit hours of a minor must come from upper division (200-499) courses;
- a student must declare a minor with the appropriate department and the student's college;
- at least half of the course requirements of a minor must be completed at Xavier;
- a student must attain a 2.000 average in the course work of the minor in order for it to be acknowledged on the student's transcript.
Students should consult with the appropriate program director concerning specific requirements for a minor. The following minors are available as of this publication date, with IM denoting an Interdisciplinary Minor: (consult Index on pages 392-396 for catalog reference).

| Art History | German | Peace Studies (IM) |
| :--- | :--- | :--- |
| Biology | Greek | Performance Studies |
| Business Administration | History | Philosophy |
| Chemistry | Information Technology | Physics |
| Classical Humanities | International Affairs | Political Science |
| Communication Arts | International Studies (IM) | Pre-Medical Studies (see |
| Computer Science | Jazz | Natural Sciences) |
| Corrections | Latin | Psychology |
| Criminal Justice | Latin American Studies (IM) | Secondary Education |
| Economics | Mathematics | Spanish |
| English | Montessori Education | Studio Art |
| Environmental Studies (IM) | Music | Theology |
| French | Natural Sciences (Pre- | Women's and Minorities' |
|  | Medical Studies) | Studies (IM) |

## Change of Major or Minor, Adding a Major or Minor

A student wishing to change or add a major or minor must receive approval from the dean. A student wishing to change majors 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 the student is leaving. A student wishing to change majors within the same college must receive the written approval of the dean of the college and the department chair for the student's new major. The change of major is effective immediately upon processing by the Office of the Registrar unless noted by the dean.

## Application for Degree and Graduation

Students initiate the process of graduation by completing an Application for Degree, available from the Office of the Registrar. Utilize the Degree Audit Report "OnCourse," available at the Office of the Registrar to assist you with your graduation check out. Please refer to the Schedule of Classes for application deadlines.

Students may graduate at the end of the term they complete all degree requirements: August, December and May. Commencement exercises are held each May for graduates from the entire previous academic year.

Students whose degree requirements are completed, graded, and recorded within thirty calendar days of that term's graduation date may receive a diploma dated for that term.

## Requirements for Bachelor's Degrees

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

1. completed the requirements listed under the "Core Curriculum," page 93;
2. attained a 2.000 average in the course work of the major. BSBA students must also complete the business core with a 2.000 average; some programs have a higher GPA requirement;
3. attained a cumulative grade point average of 2.000 or better;
4. earned 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 Schedule of Classes;
8. completed all departmental requirements in the major field and all requirements of their college;
9. cleared all financial obligations with the University before the diploma and transcripts can be released.
In addition to the above, transfer students must have:
10. completed at least 60 hours in accredited four-year schools;
11. completed at least one-half of the course requirements of the major at Xavier;
12. if applicable, completed at least one-half of the business core at Xavier.

These requirements are contained in the degree audit report, "OnCourse."

## Requirements for a Second Bachelor's Degree

Students who have a bachelor's degree from a regionally accredited institution, including Xavier, may earn a second bachelor's degree at Xavier. Credits applied toward the first degree will be accepted as transfer credit toward the second degree. A minimum of 30 additional hours must be taken and at least 15 hours must be in the second major. If the second degree is a business degree, at least one-half of the business core must be completed at Xavier and present catalog requirements in business must be met. Students must meet all quality point and grade requirements set by the University, college and major department. If current Xavier core requirements for the second degree were not met within the first degree, the following policies will apply.

1. The Ethics/Religion and Society Focus ( $\mathrm{E} / \mathrm{R} \& S$ ) elective course will be waived.
2. Students with one transferred 3-credit literature course must take "Literature and the Moral Imagination" as their second literature course. Students with two transferred 3 -credit literature courses will have fulfilled the literature requirement.
3. Students who transfer with two or fewer 3-credit theology courses must complete one appropriate 3 -credit theology course at Xavier. Students who transfer 9 credits of theology courses will have fulfilled Xavier's theology requirement.
4. Policy \#3 is also applicable to the philosophy requirement.
5. Policy \#3 is also applicable to the science requirement.
6. Students must meet all other core curriculum requirements.

## Requirements for an Associate Degree

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

1. completed the appropriate requirements listed under the "Core Curriculum Associate Degree," page 95;
2. attained a 2.000 average in the course work of the concentration;
3. attained a cumulative grade point average of 2.000 ;
4. earned at least 60 hours;
5. completed the last 30 hours at Xavier unless waived by a college dean;
6. transferred, normally, no more than 9 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 Schedule of Classes;
8. completed all departmental requirements in the concentration field and all requirements of their college;
9. unless all financial obligations to the University have been met the diploma and transcripts cannot be released.
In addition to the above, transfer students must have:
10. completed at least one-half of the course requirements of the concentration at Xavier.

## Listing and Requirements for Certificate Programs

Xavier University offers several certificate programs. Students may complete certificate programs as part of an associate, bachelor's or master's degree or as a non-degree student. Some programs require that students have the minimum of an associate or bachelor's degree prior to admission.

Candidates for certificates (Corrections, Criminal Justice, Information Technology, Occupational Therapy, Pre-MBA Studies, Pre-Medical Studies) must have:

1. Completed the requirements for the certificate with at least one-half of the hours completed at Xavier.
2. Attained a cumulative grade point average of 2.000 or better.
3. Unless all financial obligations to the University have been met the transcripts cannot be released.

## Graduation Honors

Honors are awarded on the basis of outstanding achievement only at the undergraduate level. For a bachelor's degree, a student who has earned a quality point average of 3.900 to 4.000 in Xavier course work will be graduated summa cum laude; one who has earned 3.750 to 3.899 , magna cum laude; one who has earned 3.500 to 3.749 , cum laude. For an associate degree, a student who has earned a quality point average of 3.900 to 4.000 in Xavier course work will be graduated "with highest honor;" one who has earned 3.750 to 3.899 "with high honor;" one who has earned 3.500 to 3.749 , "with honor." These honors are inscribed on the student's diploma and recorded on the student's permanent academic record.

Transfer students with appropriate grade point averages are eligible for honors at graduation if they have completed at least 60 quality hours at Xavier University for a bachelor's degree or at least 30 quality hours at Xavier University for an associate degree. If the student takes the Cultural Diversity Elective requirement at Xavier, the requirement for Xavier quality hours is reduced to 59 or 29 respectively.

Honor cords may be worn by any student who graduates or participates in the May Commencement ceremony, if those honors were earned by the time of the ceremony.

## Academic Standing

Actions regarding academic warning, probation, suspension, dismissal, and academic reactivation will be noted on the student's permanent academic record. "Good standing" is defined as a student who has earned a cumulative grade point average of 2,000 or better (a " C " average or better).

## Academic Warning

A freshman in a baccalaureate program whose cumulative average is 1.750 to 1.999 receives an academic warning. A warning may be issued for one semester only and may not follow a term on probation.

## Academic Probation

A student in an associate degree program whose cumulative average falls below 2.000 is placed on academic probation.

A freshman in a baccalaureate program whose cumulative average falls below 1.750 is placed on academic probation.

An upperclassman in a baccalaurate program whose cumulative average falls below 2.000 is placed on academic probation.

Academic probation can be imposed by a dean at the end of any term. 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. Academic probation is removed when the student's cumulative average rises to 2.000 or above.

## Academic Suspension

Students on academic probation who fail to restore their cumulative grade point average to 2.000 within two semesters will be suspended. In addition, Freshmen and probationary students who receive more than one failing grade within a single term will be suspended. Suspension will be enforced unless in the judgment of the dean there are extenuating circumstances. One fall or spring term must elapse before a suspended student may reapply.

## Academic Reactivation

A suspended student who wishes to return is required to complete a Reactivation Form, available in the Office of the Registrar or dean's office. Reactivation 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 Office of the Bursar prior to reactivation.

## 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.

## Writing Standards

In written work for class assignments, the University requires a high quality of writing. Instruction is available, through course work and through the James E. Glenn Writing Center, to help students attain this level of quality. Faculty members may refuse to accept an assignment which does not meet acceptable standards.

## Eligibility for Participation in Extracurricular Activities

In order to be eligible for participation in extracurricular activities, a student must maintain a cumulative average of 2.000 or greater. This is understood in the following manner:
a) Freshmen or new students at Xavier, admitted on the standards specified by the University (and as certified by NCAA Initial-Eligibility Clearinghouse) are eligible for the entire year, provided they earn at least a 1.750 average for the first semester of eligibility;
b) Students with sophomore standing or higher must have a 2.000 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.
c) Satisfactory progress as defined in the NCAA Manual and in the Student Athlete Handbook must be maintained. See Bylaw 14.
The 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. 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.

## Academic Bankruptcy

Academic bankruptcy allows an undergraduate to continue work toward a college degree without being severely burdened by a term with a high proportion of low or failing grades. Academic bankruptcy means that all credits and all grades for a given term are excluded from the computation of a student's grade point average, and the hours earned during the term will not be counted toward graduation. For this policy, the entire summer is considered one term.

A student may apply to the college dean for academic bankruptcy after the completion of a subsequent term of satisfactory performance. Satisfactory performance is defined as a grade point average of 2.000 in a term 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 and is irrevocable. Actions regarding course repetition, warning, probation, suspension, dismissal, and reactivation are not modified by this policy.

## 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, the falsification of results and material submitted in reports or admission documents, and the falsification of any academic record including letters of recommendation.

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 unatributed use of another's efforts is prohibited as is the use of any work untruthfully submitted as one's own.

Penalties for violations of this policy may include one or more of the following: a zero for that assignment or test, an " $F$ " in the course, and 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.

## Grade Grievance Procedure

## This policy applies to both graduate and undergraduate students.

Students may appeal final grades if they believe that the grade given was unfair. 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.

The instructor is obligated to participate in the grade grievance process. If the instructor does not participate, the chair and/or dean will proceed without the instructor.

1. The student shall indicate in writing to the chair of the appropriate academic department 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; explain exactly how the instructor's action was unfair; and be received by the department chair by March 1 for fall grades and October 1 for spring and summer grades. The student then meets 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 appropriate college. 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 members and two students, to conduct a hearing on the grievance. Two of the faculty members 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 a hearing chaired by the dean. The instructor and the student shall be present and each shall 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 after the decision is reached. If the committee's decision is that the grade given was inappropriate, the academic vice president shall authorize the registrar in writing to change the grade.
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.

## 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 Code of Student Conduct, and the Student 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 Student Services) will take action after consultation with the student.

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

Disciplinary records are confidential and are maintained by the Office of the Vice President for Student Development for a period of three to five years. The University may choose to notify parents of disciplinary action taken against a student.

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 in 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 misconduct.

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

## Reservation of Rights

Xavier reserves the right to modify its graduation and other requirements as deemed necessary from time to time. The University will attempt to 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 their dean.



# GRADUATE ADMISSION 

web site address is http://www.xu.edu/admissions/graduate

Health Services Administration Graduate Program (513) 745-1912<br>email address is XUMHSA@xavier.xu.edu<br>Master of Business Administration Graduate Program (513) 745-3525<br>email address is XUMBA@admin.xu.edu<br>Psychology Graduate Program<br>(513) 745-1053<br>email address is XUPSYCH@xavier.xu.edu<br>Office of Graduate Services (all other graduate programs)<br>(513) 745-3360<br>email address is XUGRAD@admin.xu.edu

## Admission Status

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 who have not been officially accepted into a graduate degree program. No more than six semester hours earned while classified as a non-degree student may be transferred to a degree program.

## Admission-Degree Students

Materials for admission to most graduate programs should be sent to the Office of Graduate Services. Master of Business Administration (MBA) applicants should send all materials to the MBA Office. Master of Health Services Administration (MHSA) applicants should send all materials to the MHSA Office. Admission materials for graduate programs in psychology should be sent to the department of psychology.

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

1. Submit a completed degree application form. Applications can be obtained from the Office of Graduate Services, the MBA office, the department of psychology, or the MHSA Office. The current application fee must accompany the application form.
2. Send two official transcripts from all colleges or universities previously attended. The bachelor's degree must have been earned from a regionally accredited institution.
3. Arrange for applicable official test scores to be sent:
a. Master of Business Administration applicants - Graduate Management Admission Test (GMAT) or Graduate Record Exam (GRE);
b. Master of Health Services Administration applicants - Graduate Management Admission Test (GMAT) or Graduate Record Exam (GRE);
c. Master of Science in Nursing applicants - Miller Analogies Test (MAT) is preferred, Graduate Record Exam (GRE) will be accepted in place of the MAT in some cases;
d. Occupational Therapy applicants seeking a post-baccalaureate certificate in Occupational Therapy (with or without a Master of Education degree) Graduate Record Exam (GRE);
e. Master of Arts in Psychology and Theology applicants - Miller Analogies Test (MAT);
f. Doctor of Psychology - Graduate Record Exam (GRE) general knowledge and psychology subject tests.
g. Master of Arts in Industria/Organizational Psychology and General Experimental Psychology - Graduate Record Exam (GRE) general knowledge and psychology subject tests.
h. Other Graduate Programs:

The Graduate Record Exam (GRE) or the Miller Analogies Test (MAT) is accepted for the following programs: The M.A. in English, history and humanities; the M.Ed. and the M.S. in criminal justice. In most cases, the test requirement is waived completely for students who currently hold a graduate degree.
4. A student for whom English is not the first language may be asked to demonstrate proficiency in the English language.
5. Submit other required documents as specified for individual programs.

Credentials received become the property of the University. Notification of acceptance or denial is sent to each applicant as soon as possible after receipt of all required materials. Official acceptance for graduate study is valid for a one-year period from the date of acceptance. Failure to enroll within the one-year period invalidates the acceptance and the individual must be readmitted to the program. Contact the Office of Graduate Services to inquire about readmission.

## Admission-Non-degree Students

To apply for admission as a non-degree student, one must submit a completed non-degree application form and current application fee to the Office of Graduate Services. 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 Office of Graduate Services (513) 745-3360 for information about specific courses. M.B.A. courses may not be taken without permission of the associate dean of the M.B.A. program. M.H.S A. courses may not be taken without permission of the director of the Graduate Program in Health Services Administration.
2. Although there is no limit to the number of courses that may be taken as a nondegree student, no more than six hours taken in non-degree status may be applied toward a graduate degree.
3. A non-degree student may apply to a degree program by completing the application process for degree status.
4. Non-degree students are subject to all University policies described in the Xavier University Catalog.

## TEACHER CERTIFICATION

5. A student taking courses for initial teacher certification must submit official copies of transcripts for all coilege work and see an academic advisor.
6. A student taking courses for certification renewal should see an academic advisor.

## Admission-International Students

## email address is XUGLOBAL@admin.xu.edu

To apply for admission, the student must submit the following items to the Office of Admission. Credentials received for admission become the property of the University.

1. An international student application form.
2. Evidence of proficiency in the English language. A Test of English as a Foreign Language (TOEFL) score of 550 for graduate students is required. Students who want to improve their English skills can enroll in Xavier's English as a Second Language (ESL) program. To enter degree programs, graduate ESL students need to obtain a TOEFL score of 530 (or equivalent) and an average of " $B$ " in ESL courses.
3. 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.
4. Recommendation letters are required by some programs.
5. Graduate Management Admissions Test (GMAT), Graduate Record Exam (GRE), or other necessary test scores.
6. Certified English translation accompanying all documents not issued in English.
7. (a) An affidavit of support from student or sponsor, stating that all expenses will be paid, and
(b) a separate statement from an official source to show that the student or sponsor is able to meet the expenses.
All documents must be received by the Office of Admission before a Form I-20 will be issued. International students who have been admitted to the University must meet the University's campus housing requirement (see Residence Life, page 79). Prior to the start of classes, students must submit immunization records and personal health history. International students must have health insurance equivalent to what is offered through Xavier University.

## Graduate Reactivation

A degree-seeking graduate student who previously attended Xavier and has not been registered for one year is required to complete a Reactivation Form before registering. The form is available in the Office of the Registrar or the Office of Graduate Services. Applicants who want credit for coursework taken at another university during their absence from Xavier must submit a transcript to the Office of the Registrar. See the entry under Transfer Students below for time limitations on the acceptance of coursework. Students are reactivated under the current catalog year, unless an exception is made by the dean.

Students suspended from Xavier or from other institutions for poor scholarship will not be eligible for reactivation before the lapse of at least one fall or spring semester. In all cases, reactivation and the conditions for such will be determined by the dean of the appropriate college. All prior financial obligations must be settled with the Office of the Bursar prior to reactivation.

## Transfer Students

## Master's Degree

A maximum of 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. Coursework that is part of a previously earned graduate degree is not accepted for transfer credit. Only grades of "A" or "B" ( 3.000 or higher) are transferable. Credit earned through correspondence or television is not accepted. Decisions regarding transfer credit are made at the time of admission to degree seeking status.

A consortium of accredited Jesuit business schools has agreed to accept all MBA credit hours transferred from other members of the consortium. Contact the MBA Office for further details.

## Doctor of Psychology

Students accepted into the doctoral program who already hold a master's degree in a field akin to clinical psychology, may expect a portion of the previous graduate work to be credited toward fulfillment of the doctoral degree requirements. The allowable number of transferable credit hours may vary. In all cases a minimum of 72 hours of the required 114 must be completed at Xavier University.

Petitions for transfer of credit will be granted with the recommendation of the Department Chair and approval of the Dean of the College of Social Sciences. Courses taken more than six years prior to entering the doctoral program will normally not be accepted for transfer.

## Courses Taken at Other Institutions

Graduate credit completed at another university is not 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 by his/her employer.
2. a student is specifically directed by the dean or program director to take a course not available at Xavier.
3. 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 advanced written permission of the program director or dean.
As a matter of policy, the official academic record lists only those graduate courses from other universities which apply toward an advanced degree or pertain to certification.

## Undergraduate Enrollment in Graduate Courses

A currently enrolled Xavier University undergraduate student may begin graduate course work as a non-degree graduate student if the student is within 12 hours of completing the undergraduate degree. The student must be in good academic standing and must obtain written approval from the appropriate dean and program director. The student must complete the nondegree graduate application for admission and return it to the Office of Graduate Services with the written permission attached.

All graduate courses taken will be for graduate credit only; the credit hours completed for graduate credit may not count toward the student's undergraduate degree. No more than 6 credit hours taken as a non-degree graduate student may apply toward a graduate degree. Some courses are not available to non-degree graduate students.

NOTE: Students enrolled in the "Accounting 150 Credit Hour Program" should consult their department for exceptions to these policies.

## Veterans' Education

Xavier University is approved for the education and training of veterans and their eligible dependents under all existing public laws. Requests for information should be referred to the Director of Veterans' Educational Benefits, Office of the Registrar, Xavier University. Xavier is a Servicepersons Opportunity College (SOC). The toll free number for DVA and SOC information is $1-800-827-1000$.

## Reservation of Rights

Xavier reserves the right to modify its graduation and other requirements as deemed necessary from time to time. The University will attempt to 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 their dean.

## GRADUATE SCHOLARSHIPS AND FINANCIAL AID

The Office for Financial Aid's purpose is to provide the best possible service and information to students financing a Xavier education.

The office is located in Walker Hall, 1500 Dana Avenue. Office hours are Monday-Friday 8:30 a.m. - $5: 00$ p.m., and Saturdays by appointment, (513) 745-3142. Email address is XUFINAID@admin.xu.edu.

## Standards of Academic Progress

The Higher Education Act of 1965, as amended, required Xavier University to develop and enforce standards of satisfactory academic progress prior to awarding any federal financial aid funds to students. Standards of satisfactory academic progress were established to encourage students to "successfully complete" courses for which federal financial aid is received, and to progress satisfactorily toward degree completion. "Successful completion" of a course is defined as receiving one of the following grades: $\mathrm{A}, \mathrm{B}, \mathrm{C}, \mathrm{D}$, or S .

The standards apply to the following financial aid programs: Federal Pell Grant, Federal Supplemental Educational Opportunity Grant, Federal Work Study, Federal Perkins Loan, Federal Stafford Loan, Federal Parent Loan for Undergraduate Students (PLUS), and Xavier funds.

The criteria used to determine academic progress are grade point average, annual completion rate, and maximum timeframe for completion of educational objective. At the end of Spring semester, the Office for Financial Aid reviews students' progress during the previous three semesters. All periods of enfollment are reviewed, including semesters during which no financial aid was received.

QUALITATIVE REQUIREMENT - GRADE POINT AVERAGE
Undergraduates
Students who have not yet completed two academic years must have a minimum cumulative GPA of 1.750 .
Students who have already completed two academic years must have a minimum cumulative GPA of 2.000 .
Graduates
Students must maintain a cumulative GPA of at least 2.800 .

## QUANTITATIVE REQUIREMENT - ANNUAL COMPLETION RATE

In order to complete a degree within the maximum time allowed by federal regulations, students must successfully complete a minimum of $67 \%$ of the credit hours attempted each academic year (Attempted hours are hours for which a charge was incurred, excluding audited hours). The academic year begins with Summer semester and ends with Spring semester.

## MAXIMUM TIMEFRAME FOR COMPLETION OF EDUCATIONAL OBJECTIVE

Undergraduate students must complete their degree program within $150 \%$ of the published length of their degree program. For example, if a major requires 120 credit hours to graduate, a student could not receive financial aid beyond 180 credits attempted (including transfer hours) whether or not financial aid was received for those credits.

## INCOMPLETE GRADES

Incomplete grades are calculated as an " $F$ " until the incomplete grade is changed to a complete grade.

## MULTIPLE RETAKES

Repeated courses affect academic progress as follows:
GPA - Only the most recent grade counts in the student's GPA.

COMPLETION RATE - Each time a course is repeated it will be counted as "attempted hours."
MAXIMUM TIMEFRAME - Each time a course is repeated it will be counted as "attempted hours."

## REMEDIAL COURSEWORK

Remedial courses receive letter grades and therefore are treated the same as other courses for satisfactory academic progress purposes. If a student who was enrolled in remedial coursework does not maintain the minimum academic standards and he or she requests an appeal, the financial aid appeal committee will take into consideration the courses in which the student was enrolled.

## TRANSFER HOURS

Transfer hours count only toward the overall maximum timeframe calculation. Transfer hours have no effect upon the cumulative grade point average.

## TIMING OF REVIEWS

At the beginning of every academic year, academic progress will be reviewed for all students who received federal financial aid during the previous year. Continuing Xavier students applying for financial aid for the first time must also be meeting the minimum satisfactory academic progress requirements. Academic progress for continuing students who were not previous financial aid recipients will be reviewed when the Office for Financial Aid receives the application for financial aid. At the time of the review, students who are not meeting the minimum requirements for GPA or Completion Rate will be ineligible for aid for the next year.


#### Abstract

APPEALS If extenuating circumstances prevented a student from making satisfactory progress, the decision to forfeit aid may be appealed. Circumstances which are considered extenuating are those that are unusual and/or unforeseen at the beginning of the year, such as: injury or illness of the student, death of a close relative, or other situations which were unexpected and beyond the student's control. Allowances can also be made for students who have a documented disability. Appeals should be made in writing to the Xavier Financial Aid Committee, in care of the Director of Financial Aid. Students are notified by mail of the results of their appeal. Students whose appeals are approved will be eligible for financial aid for the next year on a "Conditional Status" (see below).


## CONDITIONAL STATUS

While on Conditional Status, students must successfully complete every credit attempted. Therefore, financial aid eligibility for each consecutive semester is contingent upon the student successfully completing his or her prior semester. If a student does not successfully complete a semester, financial aid is forfeited for all remaining semesters in the financial aid year.

## REINSTATEMENT OF ELIGIBILITY

If a student appeal is denied, the student must satisfactorily improve his or her cumulative grade point average and/or make up the deficient credit hours without federal financial aid in order to regain eligibility for the following year. Students who have forfeited their financial aid because of failure to meet the academic standards will not be eligible for financial aid for one year. If a student returns to Xavier after one academic year has passed, he or she will be eligible for financial aid on a Conditional Status (unless aid was forfeited because the students reached the maximum timeframe limit).

## Grants and Assistantships

Xavier University offers a limited number of scholarships (graduate study grants) and graduate assistantships. Part-time or full-time graduate students may apply for graduate study grants, available for M.A., M.Ed., M.S., and certification programs. Grants are awarded for one semester only, and students must submit a new application each semester to be considered for a graduate study grant. Graduate assistantship positions, offering tuition remission and a stipend, are available in many departments. Graduate assistantship positions are posted each February for the following summer and academic year. Other positions are posted as they become available. Contact the Office of Graduate Services for specific information and applications.

MBA candidates should contact the MBA Office in the College of Business Administration for information on graduate assistantships and scholarships. MHSA candidates should contact the MHSA Office for information on scholarships.

## Federal Financial Aid Programs

Graduate 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 ( 4.5 semester hours or more in summer, fall or spring) 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 as determined by the Free Application for Federal Student Aid (FAFSA).
Federal Work-Study Program (FWS)
The Federal Work-Study Program provides jobs for students who demonstrate financial need. Earnings for this program are funded by the federal government and the University. The student's total FWS 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.

## Federal Perkins Loan

The Perkins 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.
Federal Stafford Loan (subsidized)
A Stafford Loan is a low interest loan made to college students by commercial lending institutions. 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.

## Federal Stafford Loan (unsubsidized)

Similar to the subsidized Stafford, except the student is responsible for interest payments while enrolled. Eligibility is not based on financial need.

## Other Financial Aid

## Veterans' Educational Benefits

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, Office of the Registrar, Xavier University. Xavier is a Servicepersons Opportunity College (SOC). The toll free number for VA and SOC information is 1-800-827-1000.

## Tuition Payment Plans

Several payment plans, ranging from installments to Employer Reimbursement, are available through the Office of the Bursar. For further information, contact the Office of the Bursar at (513) 745-3435.

## Automated Searches

Students can search for private financial aid sources by using FASTWEB on the World Wide Web. To access this service, use the web address: http:// www.fastweb.com.

## GRADUATE ACADEMIC POLICIES AND REGULATIONS

## 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 page 65 .

## Classification and Enrollment Status of Graduate Students

1. Full-time: summer, fall or spring - attempting 9 or more semester credit hours.
2. Part-time: summer, fall or spring - attempting up to 8.5 semester credit hours (half time is 4.5 to 8.5 semester credit hours; there is no three-quarters time).

## Graduate Grading System

Plus/Minus grading is applicable to all courses numbered 500 or above unless a departmental policy dictates otherwise. The " + " (plus) increases a letter grade by . 33, and "-" (minus) decreases a letter grade by .33 .

A = Exceptional
A-
B+
B $=$ Good*
B-
C+
$\mathrm{C}=$ Minimal $^{* *}$
$\mathrm{F}=$ Failure
$\mathrm{VF}=$ Failure to officially withdraw
$\mathrm{W}=$ Official withdrawal
M = Incomplete, changed when grade is assigned. (see Clearance of Incompletes)
AU $=$ Audit - no credit or grade earned
S = Passing/Satisfactory, credit earned, no effect on GPA
$\mathrm{U}=$ Not passing/Unsatisfactory, no credit earned, GPA is effected
NC $=$ No credit earned, non-graded course

* minimum for credit in courses below 500 level
** minimum for credit in courses 500 level and above
No grade change can be made later than the 15 th calendar day after the beginning of the next academic semester (fall or spring) except in the case of a resolved Grade Grievance. "S"/"U" grades are given in certain pass/fail courses, in place of letter grades. The grade of " S " does not equate with letter grades and is transferable to other universities only upon their approval.


## 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 quality hours yielded by the course. Quality points are computed as follows:
$\mathrm{A}=4.00$ points per credit hour $\quad \mathrm{C}+=2.33$ points per credit hour
A- $=3.67$ points per credit hour $\quad \mathrm{C}=2.00$ points per credit hour
$B+=3.33$ points per credit hour $\quad \mathrm{F}=0.00$ points per credit hour
$\mathrm{B}=3.00$ points per credit bour $\quad \mathrm{VF}=0.00$ points per credit hour
B- $=2.67$ points per credit hour $\quad \mathrm{U}=0.00$ points per credit hour

The student's term grade point average (GPA) is computed by dividing the total number of quality points by the total number of quality hours in that term. "W", "M", "AU", "S" and "NC" grades are not figured into quality points, nor quality hours. The cumulative GPA is based on all terms at Xavier.

The semester hours in courses in which an " $S$ " grade is earned will count toward the University's minimum requirement of 30 semester hours for graduation with a master's degree. However, if the grade earned is " $U$ " (Unsatisfactory), both the credit hours and the quality points are computed into the student's cumulative grade point average. A grade of " $W$ " may be assigned, with no effect on the GPA in a pass/fail class if the student withdraws or stops attending.

## Course Numbering

Courses are numbered in the following way:
100 to 199 - undergraduate lower division courses, for undergraduate credit only.
200 to 499 - undergraduate upper division courses; selected courses are open to graduate students for graduate credit. Some degree programs in the College of Arts and Sciences and the College of Social Sciences accept none or a limited number of such courses. The graduate program in the College of Business Administration and the graduate program in Health Services Administration accept no undergraduate level courses for graduate credit.
500 and above - graduate level courses for graduate credit only; open to graduate students only.

## Credit Hours

A credithour is equivalent to fifteen class hours per term. 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 credit hours which each course carries is provided in the course description section of this catalog. The courses are listed in numerical order within the various departments.

## Prerequisites

When selecting courses, students must adhere to required prerequisites and special course restrictions established by the colleges and academic departments. Prerequisites must be passed with the minimum acceptable grade before subsequent courses may be taken.

## Excess Credit Hour Courseload

The following maximum course loads may only be exceeded with permission from the student's dean even if the additional hours are to be taken for audit. Excess hours carry additional fees, unless departmental policy requires the excess.

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.

## Auditing Courses

Any graduate student wishing to audit a course may do so. An audited course does not carry credit or earn a grade. Regular tuition rates apply. If audit requirements are not met a "W" grade may be assigned. See page 67 for additional information.

## Incomplete Work

Grades of "M" (Graduate Incomplete) should be cleared within four weeks after the last day of the term in which the course was taken. This time limit may be extended but may not exceed a period of one year from the end of the term.

If the student is deferred for graduation due to a grade of incomplete, he or she may be eligible for the original date of graduation. Work must be completed, graded, and recorded within thirty calendar days of that term's graduation date.

## 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.

## Academic Standing

Actions regarding academic warning, probation, suspension, dismissal, and academic reactivation will be noted on the student's permanent academic record. "Good standing" is defined as a student who has earned a cumulative grade point average of 2.000 or better (a " C " average or better).

## Academic Warning

A student whose cumulative GPA falls below 2.800 in courses taken for graduate credit 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. Some programs require a minimum of 3.000 . Consult page 63 of this catalog for information.

## Academic Dismissal

Any student whose cumulative GPA is below 2.800 in courses taken for graduate credit and whose next semester graduate course GPA is also below 2.800 is subject to dismissal from that program. Some programs require a minimum of 3.000 . Consult the program director for information.

Any student who earns two unsatisfactory grades ("C", "D" or " F " in courses numbered below 500 ; or " $F$ " in courses numbered 500 or above) is subject to dismissal from that program.

Xavier University reserves the right to dismiss a student for reasons of poor scholarship, academic fraud, or misconduct. Actions regarding Academic Dismissal will be noted on the student's academic record.

## Non-academic Dismissal

Xavier University reserves the right to dismiss a student if, in the judgment of University officials, such action would be in the physical, mental, emotional, or moral best interests of the student or is considered necessary for the welfare of the University.

## 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, the falsification of results and material submitted in reports or admission documents, and the falsification of any academic record including letters of recommendation.

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

Penalties for violations of this policy may include one or more of the following: a zero for that assignment or test, an " $F$ " in the course, and 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 acadernic vice president will call a committee of tenured faculty for the purpose of making a final determination.

## Grade Grievance Procedure

Students may appeal final grades if they believe that the grade given was unfair. 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 the Grade Grievance Procedure when filing such an appeal. See page 46 for the procedure for all Xavier students.

## 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 Code of Student Conduct, and the Student 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 Student Services) will take action after consultation with the student.

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

Disciplinary records are confidential and are maintained by the Office of the Vice President for Student Development for a period of three to five years. The University may choose to notify parents of disciplinary action taken against a student.

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 in 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 misconduct.

## Program Requirements

Specific requirements of the master's programs are described in this catalog. Though advising 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 concemed and must have the written approval of the dean of the appropriate college. Additional information may be found in the program fact sheets (available in the Office of Graduate Services).

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 taken for graduate credit. All MBA coursework must be graduate level MBA courses; MHSA coursework must be graduate level.

## Minimum Grade Point Average to Graduate

The minimum grade point average required for graduation from all graduate degree programs is as follows:

| College of Arts \& Sciences | GPA |
| :--- | :--- |
| M.A. Humanities | 2.800 |
| M.A. English | 3.000 |
| M.A. History | 2.800 |
| M.A. Theology | 2.800 |

College of Business Administration
M.B.A. \& X.M.B.A.3.000

| College of Social Sciences |  |
| :--- | :--- |
| Psy.D. Psychology |  |
| M.A. Psychology | 3.000 |
| M.S. Criminal Justice | 3.000 |
| M.S.N. | 2.800 |
| M.Ed. | 3.000 |
| M.H.S.A. | 2.800 |
|  | 3.000 |

In addition, two unsatisfactory grades, as stated in the Academic Dismissal section, shall be grounds for dismissal.

## Student Progress

No more than six years may elapse between enrolling in a 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 enrolling must apply for reactivation. Candidates for the doctoral degree who fail to complete all requirements within eight years after enrolling must apply for reactivation. A petition must be submitted to the appropriate college dean before proceeding. Reactivated students are held to program requirements in place at the time of reactivation. The dean may impose certain stipulations as a condition for reactivation.

## Application for Degree and Graduation

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

The student must submit an Application for Degree form to the Office of the Registrar 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 submit a new Application for Degree form.

Degrees are granted three times each year: in August for those completing programs during the summer, in December for those completing programs in the fall semester, and in May for those completing programs during the spring semester.

Students must have satisfied all financial obligations to the University before the diploma or transcript can be released.

Students whose degree requirements are completed, graded, and recorded within thirty calendar days of that term's graduation date may receive a diploma dated for that term.

## Multiple Master's Degrees

A student may earn from Xavier University only one graduate degree of the same type, e.g., M.B.A. or M.H.S.A., although more than one Master of Arts or Master of Science degree may be
obtained in more than one subject or field. An M.Ed. in Human Resource Development or Sport Administration may be earned in addition to another M.Ed. degree. There may not be any overlap in courses used for multiple master's degrees. If two programs require a common course, a substitute must be approved for one of the degree programs. (Note that exceptions to this rule may be a part of the design of dual-degree programs.)

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

## Thesis/Dissertation

Thesis/dissertation requirements vary according to program and are found in the program descriptions in this catalog. The thesis/dissertation 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.

## Reservation of Rights

Xavier reserves the right to modify its graduation and other requirements as deemed necessary from time to time. The University will attempt to 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 their dean.

## REGISTRATION

## Undergraduate and Graduate

## Schedule of Classes

The Schedule of Classes and addendum are 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 Office of the Registrar, the Center for Adult and Part-time Students (CAPS), the Graduate Services Office, and the MBA Office.

## 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 term 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 Student Maximum

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

## Graduate Student Maximum

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

## Academic Advising

Academic advising assists students in their pursuit of educational plans and programs which will aid them in fulfilling their major or degree requirements and/or prepare them for a career. Academic advising is available for students in all three colleges (Arts and Sciences, Business Administration, and Social Sciences) and the Center for Adult and Part-Time Students (CAPS). Undeclared students in the colleges of Arts and Sciences and Social Sciences are advised by academic advisors in the Academic Advising Center, located on the first floor of Alter Hall, 104 A-H. Undeclared students in the college of Business Administration are advised by designated academic advisors in that college. Students with declared majors in all colleges are advised by department chairs or designated faculty advisors in the departments of the college. Adult and part-time students are advised through the Center for Adult and Part-time Students (CAPS) or through their departments.

## Degree Audit Report (OnCourse)

An OnCourse printout shows students' completed coursework and current registration matched with degree requirements of their declared major; it also identifies deficiencies and lists courses to satisfy requirements.

OnCourse reports are printed and distributed twice in an academic year, shortly before priority registration. Students may also request an audit at the Office of the Registrar at other times (a picture ID is required).

The report assists students' advisers, and the University in determining progress toward completion of program requirements and as a graduation check.

## Registration

## Priority Registration

Priority registration for a semester occurs midway through the previous semester and gives currently enrolled students the opportunity to enroll early in desired classes.

In order to participate in priority registration, undergraduate students must have an approved advisor's signature on the registration form. No payment for tuition and fees is required during priority registration. Billing statements are mailed to srudents after priority registration 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 student's schedule will be canceled. The student will have to reregister within the week prior to the start of classes.

## Open Registration

Open registration occurs after priority registration, and is open to any student.

## Mail Registration

A mail registration period is offered to graduate students for the fall and spring semesters, and to all students for summer sessions. Students may obtain mail registration materials by calling or writing the Office of the Registrar (513) 745-3941. Full payment for tuition and fees must accompany a mail registration.

## Fax Registration

A fax registration period is available to graduate (513/745-2969) and CAPS (513/7453055) students each semester. Check the Schedule of Classes for pertinent dates. Full payment of tuition and fees must accompany a fax registration.

## Formal Registration

Formal registration occurs within the week preceding the beginning of a semester for students who did not participate in priority registration or open registration, or who did not complete payment obligations. Dates for formal registration can be found in the University calendar in this catalog and in the Schedule of Classes.

## Late Registration

Late registration begins the first calendar day of the semester and ends on the 7th calendar day of the semester. Registration is not permitted after the 7th calendar day of the semester.

## Schedule Adjustment (Class Adds-Drops, all students, Fall and Spring Term)

Once a student has registered for a term, to add or drop classes he/she must complete a dropadd form in the Office of the Registrar, as follows:

## FULL TERM CLASSES:

Adding a Class
Classes can be added through the first seven calendar days of the term.
Dropping a Class
Classes can be dropped through the first seven calendar days of the term without a grade appearing on the student's academic record. Undergraduate students receive a grade of "W" for classes dropped from the eighth calendar day of the term through approximately $80 \%$ of the term. For graduate students, a "W" occurs if a class is dropped from the eighth calendar day of the term through the last day of classes. See the Fall/Spring Schedule of Classes or the Summer Session Bulletin for specific dates and policies.

## SHORT TERM CLASSES:

## Adding a Class

Classes can be added through the first three days of the term.

## Dropping a Class

Classes can be dropped through the first three calendar days of the term without a grade appearing on the student's academic record. Students will receive a grade of "W" for classes dropped from the third calendar day through approximately $80 \%$ of the short term. See the Fall/ Spring Schedule of Classes for specific dates and policies.

The Office of the Bursar adjusts the student's financial account based on the add-drop activity. Adviser's signatures are required to change sections through the schedule adjustment period.

## 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, or during late registration.

## Auditing Courses

Anyone wishing to audit a course may do so. An audited course does not carry credit or eam a grade. No one may change from credit status to audit status or from audit status to credit status after the 7th calendar day of the term. Regular tuition rates apply. A grade of "W" may be awarded by the instructor if the student does not fulfill class obligations, or stops attending.

## Repetition of Courses

Students need to initiate this process. A course previously taken for credit may be repeated up to two additional times, including any withdrawals. The credit hours of the repeated course are counted only once. While all grades are entered on the student's official academic record, only the most recent grade counts in the student's grade point average, even if it is the lowest. Academic bankruptcy does not eliminate the term's courses from counting as repeated courses.

## Undergraduate

## Some courses may not be repeated:

1. MATH 105,120 , and 150 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 master's degree at Xavier.

## Satisfactory/Unsatisfactory

Satisfactory/Unsatisfactory (S/U) grading is only available in certain courses. Letter grades cannot be given in these courses. The semester hours in courses taken on a S/U basis will count toward the University's minimum semester hour requirement of 120 for graduation if they are passed successfully. Neither the course hours nor any quality points are computed into the student's grade point average if the grade is "Satisfactory." However, if the grade is "Unsatisfactory," both the credit hours and the earned quality points are computed into the student's cumulative grade point average.

## Withdrawal from the University during an Academic Term

A student who wishes to withdraw from all classes during a term (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 by completing a withdrawal form;
3. Submit the form to the Office of the Registrar;
4. If a campus resident, notify the Office of Residence Life.

A student is considered to be enrolled until officially withdrawn. Failure to withdraw officially from the University will result in grades of "VF" 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.

## Academic Record/Transcript

The transcript is the official academic record for all Xavier University students. Official copies must be obtained from the Office of the Registrar.

Transcript orders must be made in writing (in person or mail-in) and signed by the student. The request should include the student's current name, all previous names, ID number or Social Security Number, dates of attendance, major or concentration and any degrees received. The request should also include the student's current address, the number of copies needed and the complete address(es) to which the transcripts should be sent. The proper fee must be enclosed with the request, and all financial obligations to the University must be met before transcripts may be issued.

Transcript information is available through the Xavier University transcript information telephone line, 513 745-2007, or on-line at www.xu.edu/registrar.

## National Student Loan Clearinghouse (NSLC)

Xavier University is pleased to be in partnership with the National Student Loan Clearinghouse (NSLC). NSLC is responsible for processing student loan deferment forms for the following programs: Subsidized Stafford Loan, Unsubsidized Stafford Loan, and Parent Loan for Undergraduate Students (PLUS).

Since NSLC is Xavier University's legally designated agent, primary responsibility for loan deferment processing is with NSLC. Please contact the Office of the Registrar for additional assistance or information.

## Student Identification Card (ALL CARD)

513745-3374
The student identification card, ALL CARD, is required for all full-time and part-time students. ALL CARDS are provided through the Card Center, Room 107 Alumni Hall. The card is the official University identification and must be in your possession while on campus. The ID services include access for library, purchase of athletic and special event tickets and facilities access.

In addition to serving as your identification card for easy access to campus facilities and programs, the ALL CARD is used as cash to pay for on-campus services such as: bookstore, food services, copying, library fees, all vending, off-campus XU-LD calling services, etc.

The ALL CARD technology even includes the student's ability to integrate Star Bank's complete banking as well as PC banking services with Xavier's financial services program.

The system eliminates issues related to multiple cards for campus access and funds management. Convenience, simplicity and security...one card does it all! Questions regarding ALL CARD services available to students should be referred to the Director of Auxiliary Services and Support.

## Voice FX Grade Reporting

Xavier University has contracted with Voice FX to use its Telephone Registration Network ${ }^{\mathrm{TM}}$ ("TRN ${ }^{T M}$ ") as a service bureau. TRN Grade Reporting service permits students to listen to their grades and grade point average using a touchtone telephone, to be implemented during the 199798 academic year.

## PRIVACY RIGHTS

The Family Educational Rights and Privacy Act (FERPA) of 1974 as amended details the access of student 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 reasonable 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 as mentioned above), housing files, discipline records and any athletic records.

In compliance with Section 99.5 of the Family Educational Rights 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 the following records should be directed to the appropriate office at Xavier University, 3800 Victory Parkway, Cincinnati, Ohio 45207-1092.

Record
Undergraduate Admissions

Graduate Admissions

I-20, Visa, Immigration Papers
Academic Records
Alumni
Discipline
Housing
Financial Aid
Health/Medical
Degree Audit Report (OnCourse)
Placement
Psychological Counseling
Teacher Education

Title of Official
Director of Admissions
Dean of Center for Adult and Part-time Students (CAPS)
Office of Graduate Services
Director, MBA program
Director, Executive MBA program
International Student Services
University Registrar
Alumni Relations Director
Office of Vice President for Student Development
Director of Residence Life
Director of Financial Aid
Director, Health \& Counseling Center
University Registrar
Director, Career Services Center
Director, Psychological Services Center
Chair, Department of Education

## 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 maintained. 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 of 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 of the material or deletion of the material should be requested. Decisions rendered at the hearing will be final, and will be based solely on the evidence presented at the hearing. The appropriate vice president will summarize the evidence, state the decision, and state the reasons for the decision. This written report 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.

## Directory Information

The Family Educational Rights and Privacy Act (FERPA) permits the public release of what is termed "directory information." For Xavier University's purposes, this information includes the following: the student's name, all addresses (including email) and telephone listings, major field of study, number of hours registered and full or part-time status, class standing (freshman, sophomore, junior, senior, graduate), participation in officially recognized activities and sports, weight and height of members of athletic teams, dates of attendance, degrees awarded and total hours earned, special honors and awards, and the most recent previous educational agency or institution attended by the student.

A request for nondisclosure of the "directory information" must be filed with the Office of the Registrar, and will be honored by the institution until the student asks to have it removed, whether or not the student is currently registered. Upon the death of a student, all privacy holds are removed.

## TUITION AND FEES

The University reviews its financial policies and procedures on a continuing 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 Office of the Bursar is responsible for the assessment and collection of tuition and fees payable to Xavier University. Inquiries should be directed to the Office of the Bursar, 3800 Victory Parkway, Cincinnati, OH 45207-3181, (513) 745-3435.

All prior financial obligations to the University must be paid in full before registration will be permitted for any term. If payment or other artangement is not made by the announced deadline for the upcoming term, the student's registration may be cancelled. 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, and several major credit cards (VISA, Mastercard, and Discover). Additionally, the University may offer other payment options to assist students in paying tuition and fees. Detailed information on such plans is available from the Office of the Bursar. A brochure outlining payment options will be included in the initial billing for Fall and Spring semesters.

Any unpaid balance, even if deferred, is subject to a late payment charge.

## Registration

Students who have registered during priority registration for the fall and spring semesters will receive a bill detailing charges for tuition, fees, housing and board, in addition to estimated financial aid arranged through the University's Office of Financial Aid as of that date. Payment is due several weeks before the beginning of the semester. Payment must be made by the due date, or the registration may be canceled and the student would have to reregister during formal registration.

All students who do not participate in priority registration are required to pay $100 \%$ of tuition and fees at the time of registration, mail registration or late registration, except students using the approved payment plans or those receiving deferments as described above. Students who register late will be charged a late registration fee. If $100 \%$ of amount due is not paid at registration, the unpaid balance will be subject to a late charge.

## Tuition and Fees

The tuition rates assessed to a student are based on the student's primary matriculation as a graduate or undergraduate student as determined by the academic policies of the University.

## 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 fees in effect for the current academic year. Specific course fees, lab fees and deposits are listed in the current Schedule of Classes. Below is a list of how the rates are applied in the undergraduate programs.
Regular Undergraduate Programs

1. 12 to 18 credit hours - full-time tuition rate
2. more than 18 credit hours - per hour tuition 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

## Other Undergraduate Programs

5. Radiologic Technology - special tuition rates
6. ESL program - special tuition rates
7. Weekend Degree Program - special per credit hour rates
8. Audit - regular tuition rates including any applicable fees. Deposits
9. New full-time students - a nonrefundable tuition deposit.
10. Resident students - a nonrefundable housing deposit. Room reservations will not be honored without payment of the deposit.
The deposits are credited to the student's account when the term starts and will be deducted from the charges for the term.

## Graduate Programs

Current tuition and fee rates, special course/lab fees, and other relevant information are contained in the current Schedule of Classes or the Schedule of Tuition andFees for the academic year.

All courses taken as a graduate student will be at the graduate rate, including audited courses. Applicable course fees are charged in all cases.

## Refunds

## Xavier University Institutional Policy

Students who officially withdraw from the University or withdraw from class(es) (see withdrawal policies, page 67) 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 Office of the Bursar.

This schedule is applicable to the Fall and Spring semesters:


Tuition refunds for short-term 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 prorated on a weekly basis.

For undergraduate students who reduce their course load from full-time ( 12 credit hours or more) to part-time ( 11 credit hours or less) will receive a tuition refund based on number of hours dropped and the refund schedule percentage.

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.

## Federal Refund Policy

Students with federal assistance must comply with federal refund policies. Contact the Office of Financial Aid for further information.

## FEES

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

Application Fee - payable once and covers the costs of processing applications for enrollment and the setting up of student records.

CBA Cooperative Education Fee - payable for each coop term in which a student participates; covers job assistance fee, application processing, and record-keeping.

Data Access/Cable TV Fee - covers the cost of data and TV wiring to all residence hall rooms. Charged only to students in residence halls.

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.

Housing Reservation Deposit - a nonrefundable deposit which reserves a room in University residence halls. Deposit is applied against subsequent room rent charges.

Instructional Technology Fee - covers technological improvements to the University campus.
Late Registration Fee - charged to all students registering after the stated deadline.
Parking Permit Fee - permits parking in University student parking lots. Permits valid on evenings and weekends only are available at a reduced rate.

Room Security Deposit - a refundable deposit for all students residing in University residence halls.
Special Course/Lab Fees - covers extraordinary course costs or private music lessons. See the Schedule of Classes for course/lab fees.

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

Transcript Fee - covers the costs of processing the transcript. A nominal fee is charged for each additional transcript and there is an additional fee for immediate processing.

Yearbook Fee - charged to all undergraduate students entitling them to a copy of the University yearbook.


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## STUDENT DEVELOPMENT

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 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

513 745-3166
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 System.

## Department of Student Services

513 745-4894
The Department of Student Services provides programs and services designed to meet the diverse needs of Xavier's student population. The following programs are under the auspices of the Department of Student Services.

## Commuter Information Center

513 745-3824
The Commuter Information Center provides programs and services designed to meet the diverse needs of Xavier's commuter and nontraditional student populations. The Commuter Information Center, on the ground floor of the University Center, offers information about off-campus housing, transportation alternatives, and campus events. The Commuter Information Center maintains evening hours, and the Downunder Lounge, in the basement of the University Center, provides a comfortable place to relax and study during both the day and evening

## Orientation Programs

513 745-4892
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, spiritual and academic experiences which are designed to ease the student's transition into the University and to introduce the options surrounding academic and co-curricular life in the Xavier community. Program components speak to the specific needs of international students, commuters, transfers, part-lime students, and adult students. Parents and family members of new students are invited to participate in the Manresa program.

## Leadership Development

513745-4892
Experiential leadership programs are planned and implemented so that students can develop to their leadership potential. The focus is to foster not only the continued growth of proven successful student leaders, but to identify and foster the growth of potential and emerging leaders as well. Students will have an opportunity to track their achievements and to receive personal advice from staff and faculty relating to their participation in leadership development programs. This area provides training and support for student clubs and organizations, while also maintaining the registration process for the clubs and organizations.

Student Services coordinates campus programming of lectures, movies, dances, entertainers, and a variety of other events to satisfy the diverse needs and interests of the Xavier community.

Student Services plans many annual events, including Family Weekend, Homecoming, and Senior Week, and sponsors The Weekenders, a campus-wide group of students and staff who develop weekend social activities for all students.

Additionally, Student Services involves students in campus life by providing numerous opportunities for students to work together, learn from one another, and develop leadership skills which will have a positive impact on their lives. Students may become involved in the Student Government Association, Student Activities Council, or any of Xavier's 70 student clubs and organizations.

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

## Performing Arts

513745-3578

## Xavier Players

Student Services offers a wide range of opportunities for students in the arts. The Xavier Players produces main stage productions as well as several opportunities for student written and directed workshops. Plays and musicals are presented for the Xavier community as well as the general public. Auditions are open to all students. A Performance Studies Minor is offered through the Department of Communication Arts.

## The University Singers

Xavier has the Tri-State area's only collegiate show choir, The University Singers. The Singers perform Broadway and popular music, all professionally choreographed. These select groups of singers and dancers go on tour each year and have toured such cities as Boston, New York City, Atlanta and Toronto. Auditions take place each fall.

The XU Bands
The Pep Band is seen on both local and nationally televised games on C-Span and ESPN. The Big Band is a select group featuring the sounds of Swing and perform regularly with The Muskie Blues, a small group of five singers specializing in vocalese. The Concert Band features classical and traditional music. The bands go on tour each year and have visited such cities as New Orleans and New York City.

## Xavier Gospel Choir

The Xavier Gospel Choir offers a variety of traditional and contemporary gospel sounds. This is a spiritually motivated group that performs each year at many churches in the greater Cincinnati area.

## All Performing Arts groups offer grants for participation in these programs of $\$ 1,000.00$ per year and are renewable for four years. They are awarded on an audition basis each February.

## Information Center

513745-3201
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, and student organizations, and provides general referral for the campus. The Information Center is staffed 24 hours a day.

## Student Publications

513 745-3561
Student publications such as the Musketeer Annual (yearbook), the Newswire (student newspaper), the Student Handbook, and Xavier Days (student date planner) are advised and managed through Student Services. The Musketeer Annual reflects life at Xavier each academic year and exemplifies the spirit of Xavier tradition. The Newswire is published weekly and highlights life at Xavier, student opinions, and
campus events and activities. The Student Handbook is published once every other year. This resource provides students information about University policies and standards, a listing of offices and services, a pictorial chart of the Student Government Association, and disciplinary procedures.

## Judical Review Board

513745-4894
This judicial board considers discipline cases involving off-campus students as well as students who live on-campus. This process holds students responsible and accountable for behaviors which are alleged to be inappropriate as reported to the University by the residents of the neighborhoods in which they live or which take place in the residence halls. It is the University's desire to be a good neighbor and to foster and model good citizenship for our students.

## Wellness Services

## Health and Counseling Center

513745-3022
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 developing 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 a doctor's visit, medications or laboratory tests.

## Career Services Center

513 745-3141
The Career Services Center provides essential career development, job search and job success information and education. Career counselors assist students in developing necessary job search skills, including resume writing, interviewing, employer identification and research. The Career Services Center also sponsors the Professional Experience Program for students interested in part-time or summer work experience related to their career interest area. This office also manages the on-campus employment of Financial Aid awarded students. Additional services include oncampus interviews, resume referral, a job hotline and a yearly Employment Fair.

## Psychological Services Center

$513745-3531$
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. In addition, career assessment and counseling are provided.

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.

## Recreational Sports

513 745-2860
Xavier University Recreational Sports provides the Xavier community with a broad, diversified sports program and activities that meet the needs and interests of the entire campus. It provides an environment that focuses on the total development of all students and, during that process, maintaining an atmosphere of fun.

O'Connor Sports Center is a student/faculty/staff use facility, that provides opportunities to participate in informal recreation and fitness, instructional programs and intramural competitions. Located within the facility is a 10,000 square foot gymnasium, a 6 -lane 25 meter pool, 4 racquetball/handball courts ( 2 suited for wallyball), a weight/cardiovascular toom, and locker rooms.

In addition, there are several leadership opportunities available for students consisting of: student managers, club sport team officers, intramural officials, lifeguards, and equipment room and weight room supervisors. Students learn and enhance their teamwork, communication and customer service skills. Several of these positions are also available during the summer and school vacations. Contact the Recreational Sports Department for further information regarding any of these positions.

## Food Services

513 745-3717
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. Two 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

513745-1000
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. The officers are State Certified and provide a full range of security and law enforcement services.

## Learning Assistance Program

513 745-3280
The Learning Assistance Program provides assistance to academically qualified students with disabilities. The program assists the student by providing special advising and referral resource and coordination to develop an individualized program which meets academic standards and requirements while recognizing the student's skills, talents and limitations. Assistance is also provided to faculty and staff in working with the student population in promoting academic success and personal development. Nationally certified peer tutors are also available.

## Multicultural Affairs

513745-3181
The Office of Multicultural Affairs provides Xavier students and staft with support services and programs designed to enrich the cultural, academic and social experiences of all students, with a special emphasis on African American and other students of color. A variety of formal and informal group programs and individual advising opportunities are offered. The office and lounge areas at 3735 Ledgewood Drive provide a comfortable and casual setting for conversation and study.

## Office of International Student Services

The Office of International Student Services (OISS), located in the Romero International Center, assists international students with their special needs and services as a link for the international and American communities at Xavier University. The OISS is responsible for immigration advising, personal and adjustment assistance for all international students and serves as an advocate for international students and their concerns. In addition, this office provides the campus community with a variety of social and educational programming about international and cultural issues. The International Students' Society, a student organization, is also located in the Romero International Center, in the University Center.

The Office of Residence Life provides many learning opportunities in a unique living environment. A full-time, Masters level Hall Director lives and works in each residence hall. The student staff is comprised of Resident Assistants (RA's) who live on the wings of the hall and act as peer helpers to the residents. The hall staff strive to create a community atmosphere in the halls through social and educational programming.

The Xavier Village Apartments, University Apartments, Manor House Apartments, 1019 Dana Apartments, and the Xavier houses provide housing options for upperclass students. The apartments/houses are managed by an Apartments Manager who is a full-time Masters level staff member.

The Office of Residence Life is located on the ground floor of Brockman Hall. Staffed by a Director, Associate Director and Secretary, the office is open Monday through Friday, 8:30 a.m. to 5:00 p.m. For more information, please contact the Office of Residence Life.


#### Abstract

Assessment "The Division of Student Development assessment efforts are designed to achieve a comprehensive understanding of the total student body by measuring ways students grow and mature in our environment. Projects will assess the characteristics, needs, expectations, and development progress of students; with particular emphasis on leadership, service, wellness and diversity issues. Information will be used as a resource for our continued efforts to provide an enriching environment that contributes to the University's Mission of developing the whole person.


## ADDITIONAL STUDENT SERVICES

## Computer Access

The University has many student accessible labs and services. For more information, see page 13.

## Financial Aid

$513745-3142$
email address is XUFINAID@admin.xu.edu
The Office of Financial Aid's purpose is to provide the best possible service and information to students seeking to finance a Xavier education. The Office of Financial Aid is responsible for the administration of federal, state, and institutional resources, including scholarships, grants and loans. It also awards federal work study and acts as the liaison office between many private sources of student aid and the University. Students seeking financial assistance should contact the Office of Financial Aid for application materials and individual counseling. For additional information, see pages 27 and 55 of this catalog.

The office is located in Walker Hall, 1500 Dana Avenue. Office hours are Monday-Friday 8:30 a.m.-5:00 p.m., and Saturdays by appointment.

## Freshman Programs

513 745-3036
email address is xXUFRPROG@admin.xu.edu
This office is responsible for actively developing freshman retention programs and strategies that involve students, parents, faculty, and administrators. It is an office dedicated to solving freshman problems while providing assistance with academic, financial, and social issues. The director coordinates the Priority Registration Experience Program (PREP) for incoming freshmen, and administers the Freshman Success Program, The Parents Participation Program, the Faculty Feedback Program, Freshman Seminars, Peer Mentoring, the Faculty Lunch Program, and the Freshman Intervention Task Force.

The office is located in 103 Alter Hall. Office hours are Monday-Friday, 8:30 a.m.-5:00 p.m.
http://www.xu.edu/registrar
The Office of the Registrar provides services for students, faculty, staff, and alumni in the following areas: registration, academic records maintenance, transcripts, consortium, grade processing, degree certification, commencement, veterans' affairs, transfer credit evaluation, enrollment verification, and statistical reporting. Office staff are conmitted to courteous, efficient service to the Xavier University community.

The Office of the Registrar is located in 129 Alter Hall. Office hours are Monday-Thursday 8:00 am-7:00 p.m., Friday 8;00 a.m.-5:00 p.m.

## University Library Services

513745-3881
McDonald Memorial Library and the Lodge Learning Laboratory (202 Schmidt Hall) offer a variety of study spaces, including individual study carrels, group study rooms and lounge seating. Facilities to view videos and/or listen to audiotapes are available.

XPLORE, the library's on-line catalog, provides options for searching Xavier University's database of library materials and is a gateway to OhioLINK, a database of holdings of 53 Colleges and Universities in Ohio, and catalogs of the University of Cincimati library, Miami University, and Cincinnati Public Library. A. CD-ROM LAN allows in-library and remote access to index and abstract services. The library homepage (www.xu.edu/library) also has a variety of information available to the public. Access to XPLORE, the library's electronic card catalog, can either come direct dial-in (745-1960, login: library) or through a telnet session (telnet xulas.xu.edu, login: library).

XPLORE can also be accessed from student computer labs, faculty offices and student dorms. For more information about XU library services, please refer to page 12 in this catalog.

## Writing Center

513745-2875
The James A. Glenn Writing Center provides graduate and undergraduate students, academic staff, and facultyassistance for the many stages of the writing process. Assistance in refining cover letters and writing resumes is also available. Undergraduate peer tutors, graduate tutors, and the Director serve as instructors. The Center is equipped with Macintosh computers and printers for those who need a quiet place to write. There is no charge for the Center's services.

The Center, located in Room B-12 of Alter Hall, is open approximately sixty-five hours each week during the academic year, and for six weeks during the summer.



## SPIRITUAL DEVELOPMENT

Xavier University demonstrates commitment to its Jesuit and Catholic heritage through the Division of Spiritual Development which, in turn, sponsors Campus Ministry, Peace and Justice Programs, and Ignatian Programs.

Members of the Division of Spiritual Development cooperate with administration, faculty and students to ensure integration between the intellectual, moral and spiritual dimensions of the educational process.

## Campus Ministry

$513745-3567$
In the Jesuit tradition, Xavier's Campus Ministry provides opportunities and activities that enable students to respond to the invitation of St. Ignatius Loyola "to find God in all things." Campus Ministry offers retreats, liturgies and other prayer experiences, spiritual direction, pastoral counseling, and sponsors opportunities to reach out to others through service organizations.

Bellarmine Chapel serves as both Xavier University's chapel and as a parish in the Archdiocese of Cincinnati. Church liturgies are Roman Catholic; however, all services and programs are open to students of all faiths.

## Peace and Justice Programs

Leaders from every major religious tradition have been saying for a generation that promoting justice for marginal and dispossessed people is no longer an optional part of one's faith. For Christians, promoting justice is constitutive to preaching the gospel of Jesus. To this end, people of good will gather at Dorothy Day House for seminars, retreats, teach-ins, music, theater, spiritual direction and dialogue. Themes for the 1997-98 academic year, generated by students, will include the spirituality of Dorothy Day, promoting the work of the Buckeye Forest Council, confronting our own resistance issues, and solidarity with Central American university students.

## Ignatian Programs

$513745-3661$
This department seeks to assist the faculty, staff, and administration to become more aware of Xavier's Catholic and Jesuit identity and mission so that each one may be able to embody that identity and mission as effectively as possible.

Programs offering information and education about the Ignatian and Jesuit tradition are provided throughout the year, as are opportunities for personal development in the spirit of Ignatius' Spiritual Exercises.


## DEGREE AND PROGRAM OFFERINGS

College of Arts and Sciences (CAS)
College of Business Administration (CBA) College of Social Sciences (CSS)

## Undergraduate Degrees, Programs and Colleges

## Honors Bachelor of Arts (CAS)

## Bachelor of Arts

(CAS or CSS)
Art (CAS)
Classics (CAS)
Classical Humanities (CAS)
Communication Arts (CAS)
Concentrations:
Advertising
Electronic Media
Organizational Communication
Public Relations
Economics (CSS)
English (CAS)
French (CAS)
German (CAS)
History (CAS)
International Affairs (CSS)
Concentrations:
Business
Modern Europe
Third World
Music (CAS)
Philosophy (CAS)
Political Science (CSS)
Sociology (CSS)
Spanish (CAS)
Theology (CAS)
Bachelor of Fine Arts (CAS)
Art (CAS)
Bachelor of Liberal Arts (CAS)
Bachelor of Science in
Business Administration (CBA)
Accounting (CBA)
Economics (CBA)
Entrepreneurial Studies (CBA)
Finance (CBA)
General Business (CBA)
Human Resources (CBA)
Information Systems (CBA)
Management (CBA)
Marketing (CBA)

Bachelor of Science (CAS or CSS)
Biology Majors (CAS)
Applied Biology
Biology
Medical Technology
Natural Sciences
Chemistry Majors (CAS)
Applied Chemistry
Chemical Science
Chemistry
Computer Science (CAS)
Criminal Justice (CSS)
Education Majors(CSS)
Adaptive Physical Education
Athletic Training
Elementary Education
Montessori Education
Physical Education \& Health
Sport Management
Sport Marketing
Teaching Biology and General Science
Teaching Chemistry and General Science
Mathematics (CAS)
Music Education (CAS)
Physics Majors (CAS)
Applied Physics
Physics
Psychology (CSS)
Bachelor of Science in
Nursing (CSS)
Bachelor of Science in
Social Work (CSS)
Bachelor of Science in
Occupational Therapy (CSS)

Associate of Arts (CAS or CSS)
Communication Arts (CAS)
Concentrations:
Advertising
Electronic Media
Organizational Communication
Public Relations
English (CAS)
French (CAS)
German (CAS)
History (CAS)
Liberal Arts (CAS)
Political Science (CSS)
Sociology (CSS)
Spanish (CAS)
Theology (CAS)

## Curriculums/Programs

Pre-Mortuary Science Curriculum (CAS)
Pre-Pharmacy Program (CAS)
Professional Accountancy Program (CBA)

Associate of Science (CAS or CSS)
Criminal Justice (CSS)
Corrections (CSS)
Early Childhood Education (CSS)
Psychology (CSS)
Radiologic Technology (CAS)
Associate of Business Administration (CBA)

Undergraduate Certificate Programs
Corrections (CSS)
Ctiminal Justice (CSS)
Information Technology (CBA)
Pre-MBA Studies (CBA)
Pre-Medical Studies (CAS)

## Graduate Degrees, Programs and College

## The Master of Business Administration (CBA)

The Master of Science (CSS)
Criminal Justice (CSS)
The Master of Science in Nursing (CSS)
The Master of Education (CSS)
The Master of Arts (CAS or CSS)
English (CAS)
History (CAS)
Humanities (CAS)
Psychology (CSS)
Theology (CAS)
The Master of Health Services Administration (CSS)
The Doctor of Psychology (CSS)

## Graduate Certificate Programs

Post Master's Clinical Counseling Endorsement Program(CSS)
Post-Baccalaureate Certificate Program in Occupational Therapy (CSS)

## SPECIAL UNIVERSITY PROGRAMS

## UNIVERSITY SCHOLARS PROGRAM

The University Scholars Program is an honors program at Xavier University that provides an academically challenging program to a broad spectrum of Xavier students across the University. Students in the University Scholars Program fulfill the same core curriculum requirements demanded of all Xavier students, but take many of these required courses in specially designated scholars sections. While all University Scholars students eventually elect to major in a specific discipline, the program demands that they engage the subject matter of the arts, humanities, sciences, mathematics, and social sciences in a highly sophisticated manner. Scholars sections of courses are smaller in size, and the emphasis is placed upon more intense discussion and writing. In special blocked sections, courses from different disciplines are taught together for a more integrated educational experience. Students are also required to complete work in seminars which require that they prepare and present major research projects in that discipline.

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

All prospective Xavier students who qualify for an academic scholarship at or above the Presidential Scholarship level are eligible to apply for admission to the University Scholars Program. In addition to the guidelines for academic scholarship, prospective University Scholars need to complete an application form which includes a brief essay. An interview may also be requested at the discretion of the Program Director. Admission to the Scholars Program usually occurs prior to the freshman year. Students in or beyond the freshman year will need to contact the Scholars Program Director for specific application information.

The following summary of the University Scholars Program curriculum indicates the minimum Program requirements only. Students are advised to take additional Honors courses whenever possible. (See page 93 for a complete description of the core curriculum.)

1. Ethics/Religion and Society Focus - Scholars must complete all four courses in the Focus within the University Scholars Program.
2. English Composition - Scholars must complete Honors rhetoric.
3. Fine Arts - Scholars must take three semester hours in studio or performance courses which carry academic credit or a classroom course that has been approved for Scholars.
4. Foreign/Second Language-Scholars must demonstrate intermediate proficiency in a foreign/second language. Because of the requirements of some majors or degree programs, the Director of the University Scholars Program will adjust this requirement on a case-by-case basis.
5. Philosophy and Theology - Beyond the Focus courses (PHIL 100 and THEO 111), one Honors course in either area is required. One Honors course in each area is recommended.
6. History - Scholars must complete one Honors course in introductory history.
7. Social Science-Scholars must complete two Honors courses, including at least one Honors course in introductory economics.
8. Mathematics - Scholars must complete Honors calculus. This requirement may also be fulfilled by taking calculus for science majors. Scholars must also complete one additional mathematics course at or above the 150 -level. For students who do not take a second semester of introductory science intended for science majors, this second course in mathematics must also be Honors.
9. Science-Scholars must complete one semester of introductory science intended for science majors. A second such semester is strongly recommended, especially one in a different science.
10. Seminars - In addition to the above, Scholars must participate in no less than three Honors seminars, generally during their junior and senior ycars. Seminars in core subjects may be used to fulfill a student's core requirements. Not all seminars offered at Xavier University are approved for Scholars.

To remain in good standing within the University Scholars Program, Scholars must maintain a 3.000 cumulative grade point average during their freshman year and a 3.200 cumulative grade point average thereafter. Students whose grade point averages fall below these figures will be placed on probation within the Program and given a semester in which to bring up their grades.

## THE HONORS BACHELOR 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 (see page 93) including the following modifications, and whenever possible, special Honors sections or the more demanding sections of required courses should be taken:

| Cultural Diversity | -1 hour |
| :--- | :--- |
| English | -9 hours ( 3 Rhetoric, 6 Literature) |
| History | -6 hours |
| Social Sciences | -6 hours |
| Mathematics | -6 hours (including Calculus) |
| Science | $-9-11$ hours |
| Fine Arts | -3 hours |
| Theology | -9 hours |
| Philosophy | -18 hours |
| Latin | -21 hours |
| Greek | -21 hours |
| Capstone course | -3 hours |

The requirements listed above include three hours each of philosophy (Ethics), theology (Foundations), literature (Moral Imagination), and the three elective hours needed to complete the Ethics/Religion and Society Focus.

There remain a good number of credit hours for the superior student to cover premedical or prelaw requirements, or to do concentrated work in almost any major.

## PRE-LEGAL 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 accounting, English, government, economics, history, mathematics, foreign language, logic and philosophy. Communication arts courses 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.

## THE SERVICE LEARNING SEMESTER

The Service Learning Semester combines 15 credit hours of academic study and community service under the guidance and supervision of Xavier University faculty members. The academic study provides the student with knowledge of the culture, religion, history, government and economics of the service site. The community service focuses the academic study in a context of living with and working alongside the economically poor. A primary goal of the entire semester is integration of the academic study with the experience of service.

The first two weeks of the semester provide orientation and classes. For the next 90 days, the students, accompanied by a Xavier faculty member, engage in private and group study and provide service on site. Students spend the last two weeks of the semester completing assignments and concluding an overall reflection on the experience of the semester.

## PEACE STUDIES MINOR

The Peace Studies Minor is a fifteen-hour interdisciplinary program available to all Xavicr undergraduates and compatible with any major. It is designed to examine problems of peace and justice.

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 and social and economic justice strategies of world order; peaceful settlement of political and social conflicts; and 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 15 -hour multidisciplinary minor compatible with any major. The minor studies social diversity and its significance. Differences based in class, race, sex, religion, sexual orientation, ethnicity, age, health, and physical ability are all treated through courses in literature, theology, philosophy, sociology, history, political science, economics, psychology, nursing, social work, management and others.

Successful completion of the minor is noted on the student's transcript. Many employers look for evidence that candidates for employment are prepared to deal with social diversity with understanding and cooperation.

Information on the minor can be obtained from the director, whose name and location are noted in each semester's schedule of classes.

## THE INTERNATIONAL STUDIES MINOR

The International Studies Minor is an multidisciplinary approach to the language and culture of another part of the world, including international economics and international relations. It requires 18 hours, six of which must be taken in another country as part of a semester, summer or year abroad. Intermediate language proficiency (generally, four semesters of a single language) is required, along with ECON 300, International Trade and Business Environment; POLI 277, International Relations; and two further electives, one each in history and political science.

The International Studies minor may be combined with any major. Successful completion of the minor is noted on the student's transcript. Information regarding the minor can be obtained from the director of the International Affairs Program.

Also, see page 233 for the International Affairs Minor.

## LATIN AMERICAN STUDIES MINOR

The Latin American Studies Minor is an 18 -hour interdisciplinary program housed in the department of modern languages and available to all Xavier undergraduates and enhances any major. It is designed to help students achieve an advanced level of ability in the Spanish language and cultural competency in Latin America.

Successful completion of the minor is noted on the student's transcript. Many employers look for evidence that candidates for employment are prepared to deal with the realities of a global society. See page 140 for course requirements.

Information on the minor can be obtained from the director and in the section of the catalog on minors in the department of modern languages.

## ENVIRONMENTAL STUDIES MINOR

The Environmental Studies Minor is a 16 -hour interdisciplinary program compatible with any major. It offers students an integrated overview of environmental and natural resource fields. Students take CHEM 104/105 or PHYS 116/117 (or general chemistry or physics), BIOL 250/251 (prerequisite: one semester of biology), ECON 320 (prerequisite: ECON 200), one approved elective (THEO 245 or THEO 388 or others), and BIOL/ECON 398 (prerequisite: ECON 320 and BIOL 250/251).

Successful completion of the minor is noted on the student's transcript. Information regarding the minor can be obtained from the co-directors, whose names are noted in each semester's schedule of classes.

## ENGLISH AS A SECOND LANGUAGE PROGRAM (ESL)

The program offers intensive English language instruction for international students who have the goal of entering American colleges and universities or improving their ability to use English for professional purposes. ESL students at Xavier University receive instruction in all English and academic skills including grammar, reading, composition, listening, speaking, vocabulary, and pronunciation. In addition, Test of English as a Foreign Language (TOEFL) preparation, discussion, and business-related language training are included as optional course work.

The program offers four levels of instruction: beginning, intermediate, high intermediate and advanced. The instructional methodology at each level is oriented toward preparing students for academic study through an integrated, content-based approach. Courses at the intermediate, high intermediate, and advanced levels are given academic credit toward a degree. To provide for flexibility in student placement and instruction, the semester is divided into two 8 -week half terms, and students have the option of entering the program for the second 8 -week half-term.

Admission to the ESL program is not based upon usual University requirements unless applicants wish to pursue a Xavier degree.

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

## RESERVE OFFICERS' TRAINING CORPS (ROTC)

The Department of Military Science offers a commission as a Second Lieutenant and provides an opportunity for men and women to study subjects of recognized military and educational value which assist them in gaining the foundations of leadership. 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 Reserves.

A commission is earned through a two or a four year Reserve Officer Training Corps (ROTC) program. The four year program is completed 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:
L. Voluntary application by the student.
2. Completion of MILS 101, 103, 201, and 203; 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 2.000 .
6. Signing the ROTC Advanced Course Student Contract.
7. Junior academic standing.

Credit for military science courses is granted by the University. The credit hours for these courses may satisfy free elective requirements. To receive a commission, students must complete a baccalaureate program that includes one course from the following fields of study: human behavior, written communications, computer literacy, math reasoning, and management.

| Freshman Year |
| :---: |
| MILSS 101, Intro. to Leadership I ................ 1 |
| MILS 102, Leadership Laboratory * ........... 1 |
| MILS 103, Intro. to Leadership II ............... 2 |
| MILS 104, Leadership Laboratory * ........... 1 |
| Sophomore Year |
| MILS 201, Military Training \& Speaking .... 3 |
| MILS 202, Leadership Laboratory * ........... 1 |
| MILS 203, Military History ...................... 3 |
| MILS 204, Leadership Laboratory* ............ 1 |
| Junior Year |
| MILS 301, Basic Military Tactics ............... 3 |
| MILS 302, Leadership Laboratory *........... 1 |
| MILS 303, Advanced Military Tactics ......... 3 |
| MILS 304, Leadership Laboratory * ........... 1 |
| Senior Year |
| MILS 401, The Military Team ................... 2 |
| MILS 402, Leadership Laboratory* ............ 1 |
| MILS 403, Professional Development ........ 2 |
| MILS 404, Leadership Laboratory* ............ 1 |
| * Each laboratory is a corequisite. |

## AIR FORCE ROTC

The Department of the Air Force at the University of Cincinnati, in cooperation with Xavier University, provides the opportunity for qualified students to enroll in the Air Force Reserve Officer Training Corps (AFROTC) Commissioning program. Upon graduation and successful completion of the AFROTC program, the student will be commissioned as an officer in the United States Air Force. The Air Fore courses are taught on the University of Cincinnati campus and may be taken through the Greater Cincinnati Consortium of Colleges \& Universities. For further information on scholarships and the AFROTC program, contact the Department of the Air Force at the University of Cincinnati, (513) 556-22.37.

## XAVIER CONSULTING GROUP

The Xavier Management Consulting Group provides the highest quality management consulting and development processes to businesses in the greater Cincinnati/tri-state area.

## STAFF

Faculty: DR. P. JONES, Director; MR. HARMON, Sales Manager, MS. BENSMAN, Sr. Program Manager, MS. P. WIDEMAN, Program Manager, MS. MASSA, Secretary

Adjunct Faculry: Members of the Xavier University faculty and private consultants from local and national sources.

## UNDERGRADUATE CORE CURRICULUM

## BACHELOR'S DEGREES

Xavier University is committed to a broad-based liberal education in the Jesuit tradition. The basis for this education of all undergraduate students lies within the Core Curriculum. A detailed listing of courses to fulfill each requirement area is contained in the degree audit report, "OnCourse," which can be obtained in the Office of the Registrar.

The Undergraduate Core Curriculum for baccalaureate students consists of a minimum of 64 credit hours. There are four segments as follows:

1. Cultural Diversity Elective (1 credit hour minimum)

This introduces students of sophomore classification and above to the opportunities cultural diversity presents, and to the issues of stereotyping, prejudice and discrimination and their relation to the exercise of power in American society.
2. English Composition or Rhetoric Requirement (3 credit hours)

In order to insure that all students possess adequate writing skills, either ENGL 101," English Composition, or ENGL 115, Rhetoric, is required of every student. Those students who enter Xavier deficient in English skills will be required to complete ENGL 100, Basic English, before enrolling in ENGL 101.
3. Ethics/Religion and Society Focus (E/R\&S) (typically four courses, 12 credit hours). By devoting special attention to ethical issues of social significance, the Ethics/Religion and Society Focus endeavors to realize Xavier's mission and philosophy of education in its curriculum. In keeping with its Catholic and Jesuit tradition, Xavier believes its students need to discern what is truly good for themselves and society. The E/R\&S component of the Core Curriculum is directed towards this end.
Of the four E/R\&S courses required, two are to be taken first: PHIL 100, Ethics as an Introduction to Philosophy, and THEO 111, Theological Foundations. Both courses must be prerequisites to ENGL 205 or CLAS 205, and to the E/R\&S Elective or one must be prerequisite and the other taken as a corequisite.
The third course must be chosen from either ENGL 205, Literature and the Moral Imagination, or CLAS 205, Classical Literature and the Moral Imagination. Typically this course should follow the other literature course in the core.
The fourth course, the $\mathrm{E} / \mathrm{R} \& S$ elective, may be selected from any course designated as an E/R\&S Elective in the Schedule of Classes for a given term. The E/R\&S elective course may be used to satisfy another core requirement.
Consult the Schedule of Classes for a current list of appropriate courses offered in a specific term, and OnCourse for all active courses which apply.
4. Additional Requirement Areas ( 51 credit hours) Specific prerequisites follow this list.
Fine Arts $\quad 3$ credit hours $\quad$ Mathematics 6 credit hours

Foreign/Second

Language
History $\quad 6$ credit hours
Literatur

3 credit hours

Philosophy
Sciences
Social Sciences
Theology

6 credit hours
6 credit hour
9 credit hours
6 credit hours
6 credit hours.

## Fine Arts

Three semester hours must be completed in approved studio or lecture courses that encourage creative expression, specifically in the fields of film, video, music, theatre, and the visual arts.

## Foreign/Second Language

Students must demonstrate intermediate proficiency in a foreign/second language or complete up to six hours toward obtaining that proficiency after placement. International students whose native language is not English fultill the language requirement by their proficiency in English. Xavier University considers American Sign Language a foreign/second language.

## History

Six semester hours of sequential survey courses are required to provide an introduction to historical methodology and the development of civilizations. HIST 154, War and Peace in the Modern World, can be substituted for any history part II course, but not for classics part II.

## Literature

In addition to the literature course in the Ethics/Religion and Society Focus, students must elect a course that emphasizes the analysis of, response to, and interpretation of literary texts.

## Mathematics

Six semester hours must be completed in mathematics courses. However, those who enter Xavier deficient in mathematical skills will be required to complete MATH 105, Fundamentals of Mathematics, before attempting any other mathematics course. While MATH 105 does earn credit for the student, it does not count as one of the courses needed to fulfill the six hour mathematics requirement. Students may not fulfill this requirement by taking two courses similar in content, as, for example, MATH 150, Elements of Calculus I, and MATH 170, Calculus I, or prerequisite courses taken after the successful completion of a successive course.

## Philosophy

In addition to PHIL 100, six semester hours must be completed in courses that discuss fundamental and perennial philosophical questions with readings from philosophical literature. PHIL 100, Ethics as an Introduction to Philosophy, serves as an introductory course in the Ethics/Religion and Society Focus and as the prerequisite for the two required, sequenced philosophy courses: PHIL 290, Theory of Knowledge, and a philosophy elective.

## Sciences

Nine semester hours are required in courses that include the laboratory experience in the study of natural or human phenomena. Students must complete this requirement through courses offered in two different science departments.

## Social Sciences

Six semester hours must be completed in courses that provide a general introduction to the systematic study of human behavior and institutions.

## Theology

In addition to THEO 111, six semester hours must be completed in courses that study the human experience of God and the doctrines and rituals related to religious experience. THEO 111, Theological Foundations, serves as an introductory course in the Ethics/Religion and Society Focus and as the prerequisite for the two required theology courses. Students take one course from each set of two areas: 1. Scripture/ History or Christian Systematics; 2. Theological Ethics or Religion and Culture.

## UNDERGRADUATE CORE CURRICULUM

## ASSOCIATE DEGREES

Most Associate Degree Programs
PHIL 100 3 hours
THEO 111 ..... 3 hours
E/R\&S Focus elective course ..... 3 hours
Literature 3 hours
Cultural Diversity elective ..... 1 hour
English Composition or Rhetoric ..... 3 hours
Fine Arts ..... 3 hours
PHIL 290 or Theology elective ..... 3 hours
History ..... 3 hours
Social Science ..... 3 hours
Science ..... 3 hours
Associate Degree Program in Early Childhood Education
PHIL 100 3 hours
THEO 111 ..... 3 hours
Literature elective ..... 3 hours
Cultural Diversity elective ..... 1 hour
English Composition or Rhetoric ..... 3 hours
Fine Arts ..... 3 hours
PHIL 290 or Theology elective ..... 3 hours
History ..... 3 hours
Social Science ..... 3 hours
Science ..... 3 hours

## Other Programs

Core Curricula for other programs are listed under the program descriptions (Business, Nursing, Radiologic Technology).

## NOTES:

E/R\&S Focus elective requirement may be used to satisfy another element of the core of the major.
A minimum of 60 credit hours is required for the degree.


# COLLEGE OF ARTS AND SCIENCES 

## (CAS) Degrees, Programs and Block Schedules

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 offered in the departments of English, History and Theology, and in the area of Humanities.

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## THE DEPARTMENT OF ART

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

FACULTY<br>Faculty: MS. KARAGHEUSIAN-MURPHY, chair; SR. BEIERSDORFER, MS. CHOUTEAU, BR. PRYOR, MR. SCHMIDT<br>Adjunct Faculty: MR. BRASER, MS. COPFER, MR. MARTENS, MR. TRUE, MS. UETZ<br>Introductory courses (or equivalent with permission of the instructor) are prerequisites for all advanced courses.<br>Courses numbered 500 or above are for graduate students only. All studio courses may be taken for graduate credit.

## BACHELOR OF ARTS DEGREE 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.


## Requirements for the Art Major

Core Curriculum Requirements (see page 93): 64 hours, including

- Sciences: CHEM 106-109 recommended.
- Fine arts requirement included within major.


## Major Requirements:

- 36 credit hours of art courses: ARTS $100,101,102,105,242,440,441$, and a three dimensional (3D) elective.
- 9 hours in art history, including ARTS 270, 271, and an art history elective.
- A minimum of two semesters in one area of study leading to a 6 hour senior concentration and exhibition when the concentration is in a studio area. Concentrations are arranged with the approval of the concentration advisor.
- 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.
- A minimum 2.000 average must be attained in all art courses to count toward graduation.

A recommended program sequence is available for each of the concentrations. Art certification requires an additional 31 hours of education courses as well as 53 semester hours in art for a K-12 certificate. Please direct requests and/or questions to the department chair.
B.A. Art
Suggested sequence of courses for a B.A. degree in Art with a concentration in any area. This block serves as a guideline for progress toward a degree. See your academic adviser.

| First Semester Credit Hours | Second Semester Credil Hours |
| :---: | :---: |
| Freshman Year |  |
| ARTS 100, Seminar | ARTS 105, 3D Design ............................ 3 |
| ARTS 101, 2D Design ............................ 3 | Art Elective .......................................... 3 |
| ARTS 102, Drawing ............................... 3 | THEO 111, Theological Foundations ......... 3 |
| History I .............................................. 3 | History II, ............................................. 3 |
| PHIL 100, Ethics as Intro to Philosophy .... 3 | Literature Elective .................................. 3 |
| ENGL 101 or 115, Engl Comp or Rhetoric . 3 |  |
| Total .................................................. 16 | Tatal ..................................................... 15 |
| Sophomore Year |  |
| 3D Elective .......................................... 3 | ARTS 242, Graphic Design ..................... 3 |
| Foreign Language Elective ...................... 3 | Art Elective (Concentration Area) ............. 3 |
| PHIL 290, Theory of Knowledge .............. 3 | ENGL/CLAS 205, Lit \& the Moral Imag .... 3 |
| Mathematics Elective ............................. 3 | Foreign Language Elective ...................... 3 |
| General Elective .................................... 3 | Mathernatics Elective .............................. 3 |
| Cultural Diversity Elective ....................... 1 |  |
| Total ................................................. 16 | Total .................................................. 15 |
| Junior Year |  |
| Art Elective (Concentration Area) ............. 3 | Art Elective (Concentration Area) .............. 3 |
| ARTS 270, History of Art I ...................... 3 | ARTS 271, History of Art II ..................... 3 |
| Theology Scrip/Hist or Christ Sys Elective 3 | Social Science Elective ........................... 3 |
| Science Elective ................................... 3 | Science Elective .................................... 3 |
| E/R\&S Focus Elective ............................ 3 | Theology Ethics or Rel/Cult Elective .......... 3 |
| General Elective .................................... 3 |  |
| Total ................................................. 18 | Total .................................................... 15 |
| Senior Year |  |
| ARTS 440, Criticism .............................. 2 | ARTS 490, Concentration ....................... 6 |
| ARTS 441, Seminar ............................... 2 | History of Art Elective ............................. 3 |
| Science Elective ................................... 3 | Art Elective .......................................... 3 |
| Social Science Elective ........................... 3 |  |
| Philosophy Elective ............................... 3 |  |
| Total .................................................... 13 | Total ...................................................... 12 |
| Scheduling Notes: <br> - Consult the Undergraduate Core Curriculum description on page 93 of the Catalog. <br> - E/R\&S Focus Elective requirement may be used to satisfy another element of the Core. <br> - A minimum of 120 credit hours is required for this degree. |  |
|  |  |

## REQUIREMENTS FOR STUDIO ART OR ART HISTORY MINORS

- 18 hours of art courses providing an in-depth investigation of two and/or three dimension studio disciplines and/or art history.
- A 2.000 cumulative average must be attained in the art courses.

Further information concerning art minors can be obtained from the Art Department.

## Scheduling Notes:

- Consult the Undergraduate Core Curriculum description on page 93 of the Catalog.
- E/R\&S Focus Elective requirement may be used to satisfy another element of the Core.


## BACHELOR OF FINE ARTS DEGREE IN ART

The B.F.A. degree in Art is distinguished from the BA degree in Art by its intensity and structure. Students seeking a B.F.A. degree in Art usually have full determination to pursue their livelihood as professional artists or are thinking of acquiring an MFA degree for university/art school teaching. It is a higher degree and immediately acknowledges the fact that its recipient has experienced adeeper involvement in, and commitment to, art. Since these students are also seeking a liberal arts education, the philosophical base is the same.

## Requirements for the Bachelor of Fine Arts Major

Core Curriculum Requirements (see page 93): 64 hours, including

- Sciences: CHEM 106-109 recommended.
- Fine arts requirement included within major.


## Major Requirements:

- 71 credit hours of art courses: ARTS 100, 101, 102, 105, 242, 440, 441; 12 hours in art history, including ARTS 270, 271, and two art history electives, 15 hours in a major studio area (includes senior concentration); 12 hours in an allied studio area; 15 hours of electives.
- 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.
- In the spring semester of the sophomore year, at the time of the sophomore portfolio, students will express their intention of pursuing a B.F.A. degree by delivery of a signed declaration form to the department chair, endorsed by the proposed concentration instructor.
- A minimum 2.000 average must be attained in all art courses to count toward graduation.
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.

A recommended program sequence is available. Please direct requests to the department chair.

## B.F.A. FINE ARTS

ARTS 100, Seminar ..... 1 hr .
ARTS 101, 2D Design ..... 3 hrs.
ARTS 102, Drawing ..... 3 hrs.
ARTS 105, 3D Design ..... 3 hrs.
ARTS 242, Graphic Design ..... 3 hrs .
Major Studio Area (includes senior concentration) ..... 15 hrs.
Allied Studio Area ..... 12 hrs.
ARTS 270, History of Art ..... 12 hrs .
Art Electives ..... 15 hrs .
ARTS 440, Criticism ..... 2 hrs .
ARTS 441, Seminar ..... 2 hrs.
Cultural Diversity Elective ..... 1 hr.
PHIL 100, Ethics as Intro to Phil; PHIL 290, Theory of Knowledge; and Philosophy Elective ..... 9 hrs.
THEO 111, Theological Foundations; and Theology Electives ..... 9 hrs.
ENGL 101, English Composition; or ENGL 115, Rhetoric ..... 3 hrs .
ENGL 205, Lit \& the Moral Imagination; or CLAS 205, Classical Lit \& the Moral Imagination ..... 3 hrs.
Literature Elective ..... 3 hrs.
Mathematics Electives ..... 6 hrs.
Science Electives ..... 9 hrs.
Social Science Electives ..... 6 hrs.
History Electives ..... 6 hrs.
Foreign Language ..... 6 hrs.
E/R\&S Focus Elective ..... 3 hrs.
TOTAL ..... 135
Scheduling Notes:

- Consult the Undergraduate Core Curriculum description on page 93 of the Catalog.
- E/R\&S Focus Elective requirement may be used to satisfy another element of the Core. A minimum of 135 credit hours is required for this degree,


## THE DEPARTMENT OF BIOLOGY

The Department of Biology, in cooperation with the Departments of Chemistry and Physics, offers several 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 predental students)
The Certificate in Pre-Medical Studies
The Bachelor of Science in Medical Technology
The Bachelor of Science in Teaching Biology and General Science

- in cooperation with the Department of Education (see page 193)

The Associate of Science in Radiologic Technology

## FACULTY

## BIOLOGY

Faculty: DR. GROSSMAN, chair; FR. BAUMILLER, DR. CHAMBERS, SR. CHARTERS, DR. CLOSE-JACOB, DR. ENGLE, DR. FINKE, DR. HEDEEN, DR. HORAN, MR. PETRI

Laboratory Instructors: MR. GEHNER, MS. HEATH, DR. LAINE, MS. WENDT
Coordinator of Pre-Professional Health Advising: MS. COMBS
Adjunct Faculty: MR. PECQUET

## MEDICAL TECHNOLOGY

Faculty: SR. CHARTERS, program director
Adjunct Clinical Instructors: DR. PEMBERTON, MR. BARCZAK, MR. KNEPP, DR. MacPHERSON

## RADIOLOGIC TECHNOLOGY

Faculty: MS. ENDICOTT, program director; DR. McCARTHY, M.D., medical director Adjunct Faculty: MR. GASKIN, MS. GRIMM, MR. HALLER, MR. KELLY, MS. NASH, and MS. RANZ

## BACHELOR OF SCIENCE DEGREE 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 programprovides 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.

## Requirements for the Biology Major

Core Curriculum Requirements (see page 93): 64 hours, including

- Mathematics: MATH 150 and 156.
- Science requirement included within the major:
- 17 hours in chemistry courses: CHEM 160, 161, 162, 163,240, 241, 242,243.
- 8 hours in physics courses: PHYS 160, 161, 162, 163.

Major Requirements
36 hours in biology courses: BIOL 160, 161, 162, 163, 210, 211,230,410,411,450, $451,498,499$, ten hours of electives including at least one course from 222,360, 440 and at least one course from $240,244,250$.
A 2.000 cumulative average must be attained in the 36 hours of biology courses.

| B.S. Biology |  |
| :---: | :---: |
| This block serves as a guideline for progr | s toward a degree. See your academic adviser. |
| First Semester Credit Hours | Second Semester Credit Hours |
| Freshman Year |  |
| BIOL 160, General Biology I .................... 3 | BIOL 162, General Biology II .................. 2 |
| BIOL 161, General Biology I Lab .............. 2 | BIOL 163, General Biology II Lab ............ 2 |
| CHEM 160, General Chemistry I .............. 3 | CHEM 162, General Chemistry II .............. 3 |
| CHEM 161, General Chemistry I Lab ........ 1 | CHEM 163, General Chemistry II Lab ....... 2 |
| Foreign Language Elective ....................... 3 | Foreign Language Elective ....................... 3 |
| ENGL 101 or 115, Engl Comp or Rhetoric. 3 | PHIL 100, Ethics as Intro to Philosophy .... 3 |
| Total .................................................... 15 | Total..................................................... 15 |
| Sophomore Year |  |
| BIOL 210, General Botany ...................... 2 | Biology Elective ...................................... 4 |
| BIOL 211, General Botany Lab ................ 2 | PHYS 162, College Physics II ................... 3 |
| PHYS 160, College Physics I .................... 3 | PHYS 163, Introductory Physics Lab II ...... I |
| PHYS 161, Introductory Physics Lab I ...... 1 | MATH 156, General Statistics ................... 3 |
| MATH 150, Elements of Calculus I ........... 3 | ENGL/CLAS 205, Lit \& the Moral Imag .... 3 |
| THEO 11], Theological Foundations ........ 3 | Cultural Diversity Elective ....................... 1 |
| Literature Elective ................................... 3 |  |
| Total .................................................... 17 | Total ..................................................... 15 |
| Junior Year |  |
| BIOL 410, Vertebrate Physiology ............. 2 | BIOL 230, Genetics ................................. 3 |
| BIOL 411 , Vertebrate Physiology Lab ....... 2 | CHEM 242, Organic Chemistry II ............. 3 |
| CHEM 240, Organic Chemistry I .............. 3 | CHEM 243, Organic Chemistry II Lab ....... 1 |
| CHEM 241, Organic Chemistry I Lab ....... 1 | PHIL 290, Theory of Knowledge .............. 3 |
| History I ................................................. 3 | History II ................................................. 3 |
| Theology Scrip/Hist or Christ Sys Elective 3 | Social Science Elective ............................. 3 |
| Total .................................................... 14 | Total..................................................... 16 |
| Senior Year |  |
| BIOL 498, Methods of Biol Research I ...... 1 | BIOL 499, Methods of Biol Research II ...... 1 |
| Biology Electives .................................. 4 | BIOL 450, Bacteriology ........................... 2 |
| Theology Ethics or Rel/Cult Elective ......... 3 | BIOL 451, Bacteriology Lab ..................... 2 |
| Philosophy Elective ................................. 3 | Biology Elective...................................... 2 |
| Social Science Elective ........................... 3 | E/R\&S Focus Elective .............................. 3 |
| General Elective ..................................... 3 | Fine Arts Elective .................................... 3 |
| Total ................................................... 17 | Total..................................................... 13 |
| Scheduling Notes: |  |
| - Consult the Undergraduate Core Curriculum description on page 93 of the Catalog. <br> - E/R\&S Focus Elective requirement may be used to satisfy another element of the Core or the major. <br> - A minimum of 122 credit hours are required for this degree. |  |

## REQUIREMENTS FOR THE BIOLOGY MINOR

- 17 hours in biology courses: BIOL 160-161 recommended (but any lecture-lab course $100-161$ is acceptable), $162,163,210-211$, an additional lecture-lab elected from 200-451, and an additional 200-451 course if needed to complete 17 hours.
- A 2.000 cumulative average must be attained in all biology courses.


## BACHELOR OF SCIENCE DEGREE 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 the Environment. 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 School of the Environment. During the fall semester of the junior year at Xavier, the student applies for admission to the Duke University School of the Environment. The B.S. Applied Biology degree will be awarded by Xavier University upon satisfactory completion of one year of full-time study at Duke University. Upon satisfactory completion of the requirements for a master's degree, Duke University will award either the degree of 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, courses necessary for completion of requirements leading to the B.S. in Biology degree can be taken during the senior year.
Requirements for the Applied Biology Major
Core Curriculum Requirements
Cultural Diversity Elective ............. 1 History ........................................... 6
B.S. Applied BiologyThis block serves as a guideline for progress toward a degree. See your academic adviser.
First Semester Credil Hours Second Semester Credit Hours

## Freshman Year

BIOL 160, General Biology I 3 BIOL 162, General Biology II ..... 2
BIOL 161, General Biology I Lab 2 BIOL 163, Gencral Biology II Lab ..... 2
CHEM 160, General Chemistry I 3 CHEM 162, General Chemistry II ..... 3
CHEM 161, General Chemistry I Lab 1 CHEM 163, General Chemistry II Lab ..... 2
Foreign Language Elective 3 Foreign Language Elective ..... 3
ENGL 101 or 115, Engl Comp or Rhetoric 3 PHIL 100, Ethics as Intro to Philosophy ..... 3
THEO 111, Theological Foundations ..... 3
Total15 Total18
Sophomore Year
BIOL 210, General Botany 2 BIOL 250, Ecology ..... 3
BIOL 211, General Botany Lab 2 BIOL 251, Ecology Lab ..... 1
PHYS 160, College Physics I 3 PHYS 162, College Physics II ..... 3
PHYS 161, Introductory Physics Lab I 1 PHYS 163, Introductory Physics Lab II .....
MATH 150, Elements of Calculus I 3 MATH 151, Elements of Calculus II ..... 3
PHIL 290, Theory of Knowledge 3 Literature Elective .....  3
Theology Scrip/Hist or Christ Sys Elective 3 Fine Arts Elective ..... 3
Cultural Diversity Elective .....
Total 17 Total ..... 18
Junior Year
BIOL 498, Biological Research I 1 BIOL 450, Bacteriology ..... 2
ECON 200, Microeconomic Principles 3 BIOL 451, Bacteriology Lab ..... 2
CSCI 170, Computer Science I 3 BIOL 499, Biological Research II ..... 1
History I 3 History II ..... 3
MATH 156, Statistics 3 BIOL 230, Genetics ..... 3
ENGL/CLAS 205, Lit \& the Moral Imag 3 Social Science Elective ..... 3
E/R\&S Focus Elective ..... 3
Total 16 Total ..... 17

## Senior Year

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

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

Scheduling Notes:

- Consult the Undergraduate Core Curriculum description on page 93 of the Catalog.
- E/R\&S Focus Elective requirement may be used to satisfy another element of the Core or the major.
- A minimum of 98 credit hours at Xavier University is required for completion of the degree after Duke coursework is completed.


## BACHELOR OF SCIENCE DEGREE IN NATURAL SCIENCES

(preparation for medical or other health professional schools)

## (For Pre-Medical and Pre-Dental Students)

The Natural Sciences curriculum presents a liberal arts program with emphasis on those sciences required for an excellent background for subsequent studies in medicine, dentistry, and similar health 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. (See Natural Science major and Certificate in Pre-Medical Studies on following page.) The student should 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.

## Requirements for the Natural Sciences Major

Core Curriculum Requirements (see page 93): 64 hours, including

- Mathematics: MATH 150 and 156,170 and 156 , or 170 and 171.
- Social sciences: PSYC 101.
- Science requirement included within the major.

Major Requirements

- 49 hours in science courses: BIOL 160, 161, 162, 163, 230, 350, 351, 410, 411, CHEM $160,161,162,163,220,221,240,241,242,243$, PHYS 160,161,162, 163.
- An additional 10 hours in biology or 9 hours in chemistry, to include two hours of research and the additional hours in electives. (See academic adviser for specific course selection.)
- A 2.000 cumulative average must be attained in all biology, chemistry and physics courses.
* "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.


## B.S. Natural Sciences

This block serves as a guideline for progress toward a degree. See your academic adviser.
Credit Hours Second Semester
Credit Hours

## Freshman Year

| BIOL 160, General Biology I | BIOL 162, General Biology II |
| :---: | :---: |
| BIOL 161, General Biology 1 Lab .............. 2 | BIOL 163, General Biology II Lab ............. 2 |
| CHEM 160, General Chemistry I.............. 3 | CHEM 162, General Chemistry II............. 3 |
| CHEM 161, General Chemistry I Lab ........ 1 | CHEM 163, General Chemistry II Lab ........ 2 |
| Foreign Language Elective ...................... 3 | Foreign Language Elective ...................... 3 |
| ENGL 101 or 115, Engl Comp or Rhetoric. 3 | PHIL 100, Ethics as Intro to Philosophy ..... 3 |
| Total ................................................. 15 | Total................................................. 15 |
| Sophomore Year |  |
| CHEM 220, Principles of Physical Chem ... 3 | BIOL 350, General Embryology ................ 2 |
| CHEM 221, Analytical Chemistry Lab ....... I | BIOL 351, General Embryology Lab ......... 2 |
| PHYS 160, College Physics I ................... 3 | PHYS 162, College Physics II .................. 3 |
| PHYS 161, Introductory Physics Lab I ...... | PHYS 163, Introductory Physics Lab II ...... 1 |
| MATH 150 or 170, Elem of Cal I/Cal I ..... 3 | MATH 156 or 171, Gen. Stats/Cal IL.......... 3 |
| THEO 111, Theological Foundations ........ 3 | ENGL/CLAS 205, Lit \& the Moral Imag .... 3 |
| Literature Elective ................................. 3 | Cultural Diversity Elective ....................... 1 |
| Total ................................................. 17 | Total................................................. 15 |

## Junior Year

| BIOL 410, Vertebrate Physiology .............. 2 | BIOL 230, Genetics .................................. 3 |
| :--- | :--- |
| BIOL 411, Vertebrate Physiology Lab ....... 2 | CHEM 242, Organic Chemistry II........... 3 |
| CHEM 240, Organic Chemistry I........... 3 | CHEM 243, Organic Chemistry II Lab....... 1 |
| CHEM 241, Organic Chemistry I Lab ........ 1 | PHIL 290, Theory of Knowledge .............................................................................................................................................................................................................................. 14 |


| Senior Year |  |
| :---: | :---: |
| BIOL 498/CHEM 398, | BIOL 499/CHEM 399, |
| Biology or Chemical Research ................. 1 | Biological or Chemical Research .............. 1 |
| Biology or Chemistry Electives * ............., 4 | Biology or Chemistry Electives *.............. 4 |
| Theology Ethics or Rel/Cult Elective .......... 3 | Social Science Elective ............................. 3 |
| Philosophy Elective ................................. 3 | E/R\&S Focus Elective .............................. 3 |
| PSYC 101, General Psychology ................ 3 | General Elective ...................................... 3 |
| Total ..................................................... 14 | Total..................................................... 14 |

* Student selects a senior year concentration of courses plus research in either biology or chemistry. Courses vary from year to year, so contact your academic adviser for current selections. Students concentrating in chemistry should add Chemical Literature, one hour, to junior year schedule.

Scheduling Notes:

- Consult the Undergraduate Core Curriculum description on page 93 of the Catalog.
- E/R\&S Focus Elective requirement may be used to satisfy another element of the Core or the major:
- A minimum of 120 credit hours is required for this degree.


## REQUIREMENTS FOR THE NATURAL SCIENCES MINOR (PRE-MEDICAL)

The Natural Sciences minor is designed for undergraduate students who wish to complete science courses generally required of applicants to medical school while completing a bachelor's degree in a non-science major.

- 34 hours of science courses including BIOL $160,161,162,163$, CHEM 160, 161, 162, 163, 240, 241, 242, 243, and PHYS 160, 161, 162, 163.
- A 2.000 cumulative average must be attained in these courses.


## THE CERTIFICATE IN PRE-MEDICAL STUDIES

This certificate program is designed for students who are not seeking a degree, but who want to prepare for admission to medical school. Medical schools generally expect their applicants to have the equivalent of a bachelor's degree along with the four years of science courses required for this certificate. They are:

General Biology I and II (BIOL 160-163) ................................. 9
College Physics I and II (PHYS 160-163) ................................. 8
General Chemistry I and II (CHEM 160-163) ............................ 9
Organic Chemistry I and II (CHEM 240-243) ............................ 8
A student is eligible for a certificate if at least one half ( 17 credit hours) of the courses are completed at Xavier University with a minimum grade point average of 3.000. Interested students should consult with the chair of the Health Sciences Committee or the Coordinator of PreProfessional Health Advising.

## BACHELOR OF SCIENCE DEGREE IN MEDICAL TECHNOLOGY

The curriculum which leads to the B.S. degree in Medical Technology consists of three years of undergraduate study a Xavier University and the senior year at aCAHEA (Committee on Allied Health Education and Accreditation) accredited School of Medical Technology affiliated with Xavier University. Xavier University is affiliated with the following hospital-based programs: St. Elizabeth Medical Center, Covington, KY, and the 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, 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 for one of the certification examinations. Certification examinations are administered by the Board of Registry, American Society of Clinical Pathologists, and by the CAHEA.

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 student's academic advisor to determine the senior year courses for completion of the requirements leading to a degree in Biology, Natural Sciences, or Chemical Science.

## Requirements for the Medical Technology Major

Core curriculum requirements
Cultural Diversity Elective .............. I History ................................................. 6
ENGL 101 or 115 ............................ 3 Social Sciences ...................................... 6
PHIL 100 and 290 ........................... 6 Fine Arts .............................................. 3
THEO 111 \&Theo Ethics or Literature Elective ................................ 3 Christ Sys Elective ......................
Mathematics MATH 150 \& $156 \ldots . . .6$
Foreign Language ............................ 6
E/R\&S Focus Elective ..................... 3 which may also fulfill one of the core curriculum requirements above.
Major Requirements

- 45 hours of science courses: BIOL $160,161,162,163,222,410,411,450,451$, CHEM $160,161,162,163,221,8$ hours of organic chemistry lecture and laboratory, PHYS $160,161,162,163$.
- A 2.800 cumulative average must be attained in the science courses for acceptance by affiliated hospitals.
- One year of full time study at a hospital-based medical technology program affiliated with Xavier University.
B.S. Medical Technology

This block serves as a guideline for progress toward a degree. See your academic adviser.

| First Semester Credit Hours | Second Semester Credit Hours |
| :---: | :---: |
| Freshman Year |  |
| BIOL 160, General Biology I .................... 3 | BIOL 162, General Biology II ................... 2 |
| BIOL 161, General Biology Lab I ............. 2 | BIOL 163, General Biology II Lab ............. 2 |
| CHEM 160, General Chemistry I .............. 3 | CHEM 162, General Chemistry II ............. 3 |
| CHEM 161, General Chemistry I Lab ......... 1 | CHEM 163, General Chemistry II Lab ....... 2 |
| Foreign Language Elective ........................ 3 | Foreign Language Elective ....................... 3 |
| ENGL 101 or 115, Engl Comp or Rhetoric. 3 | PHIL 100, Ethics as Intro to Philosophy ..... 3 |
| Total $\qquad$ 15 | Total ..................................................... 15 |

## Sophomore Year

CHEM 240, Organic Chemistry I 3 CHEM 242, Organic Chemistry II ..... 3
CHEM 241, Organic Chemistry I Lab 1 CHEM 243, Organic Chemistry II Lab ..... 1
PHYS 160, College Physics I 3 PHYS 162, College Physics II ..... 3
PHYS 161, Introductory Physics Lab I . 1 PHYS 163, Introductory Physics Lab II ..... 1
MATH 150, Elements of Calculus I 3 MATH 156, General Statistics ..... 3
History I 3 History II ..... 3
THEO 111, Theological Foundations 3 Literature Elective ..... 3
Cultural Diversity Elective ..... 1
Total 17 Total ..... 18
Junior Year
BIOL 450, Bacteriology ..... 2
BIOL 411, Vertebrate Physiology Lab ....... 2 BIOL 451, Bacteriology Lab ..... 2
CHEM 221, Analytical Chemistry 1 BlOL 222, Immunology ..... 2
PHIL 290, Theory of Knowledge 3 Theology Scrip/Hist or Christ Sys Elective ..... 3
Social Science Elective 3 Social Science Elective ..... 3
ENGL/CLAS 205, Lit \& the Moral Imag Fine Arts Elective ..... 3
E/R\&S Focus Elective ..... 3
Total 17 Total ..... 15

## Senior Year (refer to page 328)

The B.S. degree in Medical Technology will be awarded upon satisfactory completion of the fourth year ( 12 months) of study at an accredited CAHEA (Committee on Allied Health Education and Accreditation) School of Medical Technology administered by a hospital and approved by Xavier University. After passing an examination administered by the American Society of Clinical Pathologists (ASCP), the graduate becomes a Registered Medical Technologist.

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.

Scheduling Notes:

- Consult the Undergraduate Core Curriculum description on page 93 of the Catalog.
- E/R\&S Focus Elective requirement may be used to satisfy another element of the Core or the major.
- A minimum of 133 credit hours is required for the degree upon 36 hours completion of a fourth year at an approved hospital.


## ASSOCIATE OF SCIENCE DEGREE IN RADIOLOGIC TECHNOLOGY

Xavier University, in affiliation with the Radiologic Technology Advisory Board, offers a two year/full-time ( 23 months) classroom and clinical program leading to an Associate Degree in Science. The hospital affiliates are Bethesda Oak Hospital, Good Samaritan Hospital and Franciscan Hospital-Western Hills Campus.

Education for the radiography student is an integrated plan of classroom, laboratory and clinical education. The program requires 73 semester hours which include courses in liberal arts and radiologic technology.

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

Requirements for the Associate Degree in Radiologic Technology Core Curriculum Reguirements

- 29 hours in liberal arts courses: BIOL 140, 141, 142, 143, ENGL 101, HIST, MATH 105 (A higher level MATH course may be substituted for MATH 105 if transferring credits into the program, or the student may test out of this course by testing at a higher MATH level on the MATH placement test. If the student tests out of this course he/she will be able to graduate with 70 credit hours. MATH 105 is a prerequisite for PHYS 140), PHIL 100, PSYC 101, SOCI 101, THEO 111.
Major Requirements
- 36 hours in radiologic technology - all RADT courses listed on page 352.
- 8 hours in major related areas: COMM 207, CSCl $115, \mathrm{PHYS} 140,141$.
- A grade of "C" or better must be attained in all RADT and PHYS courses.
- Courses with prerequisites cannot be taken until the prerequisite courses have been successfully completed with a grade of " C " or better.
All students must present evidence of the following prior to entrance to all clinical courses:
- Health history and required physical examination form
- MMR immunization
- Hepatitis B series
- Liability insurance ( $\$ 1,000,000 / \$ 5,000,000$ ) purchased through the University and billed to the student's account.
Students are responsible for these expenses as well as white uniforms and transportation costs to and from the clinical sites.


## A.S. Radiologic Technology

This block serves us a guideline for progress toward a degree. See your academic adviser.

## First Year

| August - Pre-Semester: Registration and orientation for the Radiologic Technology Program begins in August. Clinical Training at the hospitals will begin during this time along with the following courses: |  |
| :---: | :---: |
| RADT 152, Nursing Procedures ............... 1 | RADT 150, Medical Terminology $\qquad$ <br> Total $\qquad$ 2 |
| First Semester Credit Hours | Second Semester Credit Hours |
| RADT 170, Prin of Radiographic Exp I ...... 2 | RADT 172, Prin of Radiographic Exp II .... 2 |
| RADT 160, Radiographic Positioning I ....... 2 | RADT 180, Radiation Protection and Biol . 2 |
| BIOL 140, Hum Anatomy and Phys I ......... 3 | RADT 162, Radiographic Positioning II ..... 2 |
| BIOL 141, Hum Anatomy and Phys I Lab ... 1 | BIOL 142, Hum Anatomy and Phys II ....... 3 |
| PSYC 101, General Psychology ................. 3 | BIOL 143, Hum Anatomy and Phys II Lab . 1 |
| MATH 105, Fundamentals of Math ............ 3 | SOCI 101, Introduction to Sociology ......... 3 |
| RADT 161, Radiographic Practicum I ........ I | ENGL 101 or 115 , Engl Comp or Rhetoric 3 |
| (Scheduled on Tuesdays and Thursdays | RADT 163, Radiographic Practicum II ...... 1 |
| - 16 hours per week.) | (Scheduled on Tuesdays and Thursdays - 16 hours per week.) |
| Total ..................+..4.t............................ 15 | Total.................................................... 17 |

## A.S. Radiologic Technology, continued

## Summer Term



## Summer Term

RADT 265, Radiographic Practicum VI ..... 3
(Students are scheduled for 40 hours per week of clinical training at the hospital affiliate for the entire summer session.)
TOTAL NUMBER OF CREDITS: 73 Hours
(*Block schedule is subject to change.)
Scheduling Notes:

- A minimum of 70 credit hours is required for the degree.


## THE DEPARTMENT OF CHEMISTRY

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

The Bachelor of Science in Chemistry
The Minor 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 predental students)
The Natural Sciences Minor
The Bachelor of Science in Teaching Chemistry and General Science- in cooperation
with the Department of Education (see page 193)
Prepharmacy Program

## FACULTY

Faculty: DR. HOPKINS, chair, DR, BARKER, DR, BUNDSCHUH, DR. DAVIS, DR. McLOUGHLIN, FR. THEPE

Laboratory Instructors: MRS. BANISALAM, DR. MAJETI, MS. STROUD

## BACHELOR OF SCIENCE DEGREE IN CHEMISTRY

The Department of Chemistry offers a curriculum that is approved by the American Chemical Society (ACS) and leads to the Bachelor of Science degree. Students completing the program graduate as "ACS certified" majors. The curriculum covers the four major fields (inorganic, analytical, organic, and physical chemistry), the preparation and identification of compounds, and the literature on the subject. CHEM 300, Chemical Literature, fits the students to prepare his/her thesis and is a beginning course in research.

## Requirements for the Chemistry Major

Core Curriculum Requirements (see page 93): 64 hours, including
Mathematies: MATH 170 and 171.

- Science requirement included within the major.


## Major Requirements

- 44 hours in chemistry courses: CHEM 160, 161, 162, 165, 235, 237, 240, 241, 242, $243,300,320,322,330,339,340,341,398,399,411,420,421,3$-hour CHEM elective.
- Four successful completions of Chemistry Seminar, CHEM 390 (zero credit hours).
- 13 hours of mathematics, computer science, and physics courses: CSCI 124, MATH 220, PHYS 161, 163, 170, and 172.
- A 2.000 cumulative average must be attained in the 44 hours of chemistry courses.


## B.S. Chemistry

This block serves as a guideline for progress toward a degree. See your academic adviser.

| First Semester Credit Hours | Second Semester Credit Hours |
| :---: | :---: |
| Freshman Year |  |
| CHEM 160, General Chemistry I .............. 3 | CHEM 162, General Chemistry II .............. 3 |
| CHEM 161, General Chemistry I Lab ........ I | CHEM 163, General Chemistry II Lab ........ I |
| MATH 170, Calculus I ............................ 4 | MATH 171, Calculus II .......................... 4 |
| Foreign Language Elective ....................... 3 | Foreign Language Elective ....................... 3 |
| ENGL 101 or 115, Engl Comp or Rhetoric. 3 | PHIL 100, Ethics as Intro to Philosophy ..... 3 CSCI 124, BASIC Programming |
| Total .................................................. 14 | Total ................................................... 15 |

## Sophomore Year

CHEM 240, Organic Chemistry I. ..... 3
CHEM 242, Organic Chemistry II ..... 3
CHEM 241, Organic Chemistry I Lab 1 CHEM 243, Organic Chemistry II Lab ..... 1
CHEM 235, Physical Analytical Lab I 1 CHEM 237, Physical Analytical Lab II ..... 1
MATH 220, Calculus III 4 PHYS 172, University Physics II ..... 3
PHYS 170, University Physics I 3 PHYS 163. Introductory Physics Lab II ... ..... 1
PHYS 161, Introductory Physics Lab I ... 1 PHIL 290, Theory of Knowledge ..... 3
THEO 111, Theological Foundations 3 Literature Elective ..... 3
Cultural Diversity Elective ..... 1
Total 17 Total ..... 15
Junior Year
CHEM 320, Physical Chemistry I3 CHEM 322, Physical Chemistry II2
CHEM 339, Physical Analytical Lab III I CHEM 341, Instrumental Analysis Lab ..... 2
CHEM 340, Instrumental Analysis 3 CHEM 330, Quantum Chemistry ..... 2
Theology Scrip/Hist or Christ Sys Elective 3 Philosophy Elective ..... 3
CHEM 300, Chemical Literature 1 CHEM 398, Chemical Research I Thesis ..... 1
CHEM 390, Chemistry Seminar 0 CHEM 390, Chemistry Seminar ..... 0
History I 3 History II ..... 3
ENGL/CLAS 205, Lit \& the Moral Imag ..... 3
Total 14 Total ..... 16
Senior Year
CHEM 411, Organic Synthesis \& Analysis 3 CHEM 399, Chemical Research II .....
CHEM 420, Inorganic Chemistry 3 CHEM 421, Inorganic Chemistry Lab ..... 1
Chemistry Elective 3 CHEM 390, Chemistry Seminar ..... 0
CHEM 390, Chemistry Seminar 0 Social Science Elective ..... 3
E/R\&S Focus Elective 3 Fine Arts Elective ..... 3
Social Science Elective 3 General Elective ..... 3
Theology Ethics or Rel/Cult Elective ..... 3
Total 15 Total ..... 14

Scheduling Notes:

- Consult the Undergraduate Core Curriculum description on page 93 of the Catalog.
- E/R\&S Focus Elective requirement may be used to satisfy another element of the Core or the major.
A minimum of 120 credit hours is required for the degree.


## REQUIREMENTS FOR THE CHEMISTRY MINOR

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## BACHELOR OF SCIENCE DEGREE IN CHEMICAL SCIENCE

The Department of Chemistry offers a program which leads to the BS degree in 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 in 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.

## Requirements for the Chemical Science Major

Core Curriculum Requirements (see page 93): 64 hours, including
Mathematics: MATH 120 and 150.

- Science requirement included within the major.

Major Requirements

- 32 hours of chemistry courses: CHEM $160,161,162,163,220,221,240,241,242$, $243,300,340,341,398,399,3$ hours of CHEM electives.
- Two successful completions of Chemistry Seminar, CHEM 390 (zero credit hours). 8 hours of physics courses: PHYS 160, 161, 162, 163.
- A 2.000 cumulative average must be attained in the chemistry courses.


## B.S. Chemical Science

This block serves as a guideline for progress toward a degree. See your academic adviser.

| First Semester Credit Hours | Second Semester Credit Hours |
| :---: | :---: |
| Freshman Year |  |
| CHEM 160, General Chemistry I .............. 3 | CHEM 162, General Chemistry II ............. 3 |
| CHEM 161, General Chemistry I Lab ........ 1 | CHEM 163, General Chemistry II Lab ......., 2 |
| History I.............................................. 3 | History II ............................................. 3 |
| THEO 111, Theological Foundations ........ 3 | PHIL 100, Ethics as Intro to Philosophy ..... 3 |
| ENGL 101 or 115, Engl Comp or Rhetoric. 3 | Foreign Language Elective ...................... 3 |
| Foreign Language Elective ...................... 3 | MATH 120. Elementary Functions............ 3 |
| Total ................................................. 16 | Total.................................................. 17 |
| Sophomore Year |  |
| CHEM 220, Principles of Phys Chemistry .. 3 | PHYS 162, College Physics II ................... 3 |
| CHEM 221, Analytical Chemistry ............ 1 | PHYS 163, Introductory Physics Lab II ...... 1 |
| PHYS 160, College Physics I ................... 3 | PHIL 290, Theory of Knowledge .............. 3 |
| PHYS 161, Introductory Physics Lab I ....... 1 | Social Science Elective ............................ 3 |
| MATH 150, Elements of Calculus I........... 3 | Fine Arts Elective .................................. 3 |
| Theology Scrip/Hist or Christ Sys Elective 3 |  |
| Cultural Diversity Elective ....................... 1 |  |
| Total .................................................. 15 | Total.................................................... 13 |
| Junior Year |  |
| CHEM 240, Organic Chemistry I.............. 3 | CHEM 242, Organic Chemistry II ............. 3 |
| CHEM 241, Organic Chemistry I Lab ....... 1 | CHEM 243, Organic Chemistry II Lab........ 1 |
| E/R\&S Focus Elective ............................ 3 | Philosophy Elective ................................ 3 |
| CHEM 300, Chemical Literature .............. 1 | ENGL/CLAS 205, Lit \& the Moral Imag ... 3 |
| Literature Elective ................................. 3 | General Elective ..................................... 3 |
| General Elective .................................... 3 | Theology Ethics or Rel/Cult Elective ......... 3 |
| Total ................................................. 14 | Total.................................................. 16 |



Scheduling Notes:

- Consult the Undergraduate Core Curriculum description on page 93 of the Catalog.
- E/R\&S Focus Elective requirement may be used to satisfy another element of the Core or the major.
- A minimum of 120 credit hours is required for the degree.


## BACHELOR OF SCIENCE DEGREE IN APPLIED CHEMISTRY

## 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 in metallurgical or chemical engineering. (This program is also available for students in fields related to physics. See the Applied Physics program.)

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.

## Requirements for the Applied Chemistry Major

Core Curriculum Requirements:
Cultural Diversity Elective .............. 1 History Electives ...................................... 6
English Composition/Rhetoric ......... 3 Fine Arts Elective ..................................... 3
Philosophy PHIL 100 and 290 ......... 6 ENGL/CLAS 205, Lit \& the Moral Imag .. 3
Theology THEO 111 and elective .... 6 Mathematics MATH 170 and 171 ............. 8
Foreign Language ........................... 6 Liberal Arts Electives * ............................. 9
E/R\&S Focus elective ..................... 3
(which may also fulfill one of the core curriculum requirements above.)

* May be taken at the University of Cincinnati.

Major Requirements

- 26 semester hours of chemistry courses: CHEM $160,161,162,165,235,237,240$, 241, 242, 243, 320, 322, 330, 339.
- 30 semester hours of computer science, mathematics and physics courses: MATH 170, 171, 220, 230, two MATH electives, PHYS 161, 163, 170, 172, 350, 351.
- A 2.000 cumulative average must be attained in the chemistry courses.
- 23 semester hours of engineering courses at the 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 Cincinnatifor year four and year five. Completion of the engineering degree awarded by the University of Cincinnati requires another year.

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 by Xavier.

## B.S. Applied Chemistry

This block serves as a guideline for progress toward a degree. See your academic adviser:

| First Semester Credil Hours | Second Semester Credit Howrs |
| :---: | :---: |
| Freshman Year |  |
| CHEM 160, General Chemistry I .............. 3 | CHEM 162, General Chemistry II ............. 3 |
| CHEM 161, General Chemistry I Lab........ 1 | CHEM 163, General Chemistry II Lab ....... I |
| MATH 170, Calculus I ............................ 4 | MATH 171, Calculus II ........................... 4 |
| PHYS 170, University Physics I | PHYS 172, University Physics II ............... 3 |
| PHYS 161, Introductory Physics Lab I ....... I | PHYS 163, Introductory Physics Lab II ...... I |
| Foreign Language Elective ...................... 3 | Foreign Language Elective ...................... 3 |
| THEO 111, Theological Foundations ......... 3 | ENGL 101 or 115, Engl Comp or Rhetoric . 3 |
| Total ................................................. 18 | Total.................................................. 18 |
| Sophomore Year |  |
| CHEM 320, Physical Chemistry I | CHEM 322, Physical Chemistry II |
| CHEM 235, Physical Analytical Lab I........ | CHEM 237, Physical Analytical Lab II ..... |
| MATH 220, Calculus III ......................... 4 | MATH 230, Differential Equations ........... 3 |
| PHYS 350, Theoretical Mechanics I .......... 3 | PHYS 351, Theoretical Mechanics II ......... 3 |
| E/R \&S Focus Elective ........................... 3 | PHIL 290, Theory of Knowledge .............. 3 |
| PHIL 100, Ethics as Intro to Philosophy ..... 3 | ENGL/CLAS 205, Lit \& the Moral Imag .. |
| Cultural Diversity Elective ...................... 1 | CSCI 170, Computer Science I .................. 3 |
| Total .................................................. 18 | Total.................................................. 18 |
| Junior Year |  |
| CHEM 240, Organic Chemistry I.............. 3 | CHEM 242, Organic Chemistry II ............. 3 |
| CHEM 241, Organic Chemistry I Lab ........ 1 | CHEM 243, Organic Chemistry II Lab ....... 1 |
| Mathematics Elective | CHEM 330, Quantum Chemistry .............. 2 |
| History I ............................................. 3 | Mathematics Elective .............................. 3 |
| Engineering (University of Cincinnati) ...... 4 | History II ............................................. 3 |
| CHEM 339, Physical Analytical Lab III ..... 1 | Theology Scrip/Hist or Christ Sys Elective . 3 |
| Fine Arts Elective .................................. 3 | Engineering (University of Cincinnati) ....... 4 |
| Total ................................................ 18 | Total .................................................. 19 |

## Senior Year

The fourth, fifth and sixth years are completed in the 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,

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

## Scheduling Notes:

Consult the Undergraduate Core Curriculum description on page 93 of the Catalog.

- E/R\&S Focus Elective requirement may be used to satisfy another element of the Core or the major.
- A minimum of 122 credit hours is required for this degree.


## BACHELOR OF SCIENCE DEGREE IN NATURAL SCIENCES

## (For Pre-Medical and Pre-Dental Students)

The natural sciences curriculum presents a liberal arts program with emphasis on those sciences required for an excellent background for subsequent studies in medicine, dentistry, and similar health 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. (Sce Certificate in PreMedical Studies on page 107.) The student should 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.

## Requirements for the Natural Sciences Major

Core Curriculum Requirements (see page 93): 64 hours, including

- Mathematics: MATH 150 and 156, 170 and 156 ; or 170 and 171.
- Social sciences: PSYC 101.
- Science requirement included within the major.

Major Requirements

- 49 hours in science courses: BIOL 160, 161, 162, 163, 230, 350, 351, 410, 411, CHEM 160, 161, 162, 163,220, 221,240, 241, 242, 243, PHYS 160, 161, 162, 163.
- An additional 10 hours in biology or 9 hours in chemistry, to include two hours of research and the additional hours in electives from among those designated by the Health Sciences Committee.
- A 2.000 cumulative average must be attained in the 59 hours of biology, chemistry and physics courses.
* "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.


## B.S. Natural Sciences

This block serves as a guideline for progress toward a degree. See your academic adviser.

| First Semester Credit Hours | Second Semester Credit Hours |
| :---: | :---: |
| Freshman Year |  |
| BIOL 160, General Biology I................... 3 | BIOL 162, General Biology II |
| BIOL 161, General Biology I Lab .............. 2 | BIOL 163, General Biology II Lab ............. 2 |
| CHEM 160, General Chemistry I .............. 3 | CHEM 162, General Chemistry II ............. 3 |
| CHEM 161, General Chemistry I Lab ........ 1 | CHEM 163, General Chemistry II Lab ....... 2 |
| Foreign Language Elective ...................... 3 | Foreign Language Elective ...................... 3 |
| ENGL 101 or 115, Engl Comp or Rhetoric. 3 | PHIL 100, Ethics as Intro to Philosophy ..... 3 |
| Total ................................................. 15 | Total................................................. 15 |
| Sophomore Year |  |
| CHEM 220, Principles of Physical Chem ... 3 | BIOL 350, General Embryology ............... 2 |
| CHEM 221, Analytical Chemistry ............ 1 | BIOL 351, General Embryology Lab ......... 2 |
| PHYS 160, College Physics I ................... 3 | PHYS 162, College Physics II .................. 3 |
| PHYS 161, Introductory Physics Lab I ...... 1 | PHYS 163, Introductory Physics Lab II ...... 1 |
| MATH 150, Elements of Calculus I or ........ 3 | MATH 156, General Statistics or ............... 3 |
| MATH 170, Calculus I ......................... 4 | MATH 171, Calculus II ......................... 4 |
| THEO 111, Theological Foundations ........ 3 | ENGL/CLAS 205, Lit \& the Moral Imag .... 3 |
| Literature Elective ................................. 3 |  |
| Cultural Diversity Elective ...................... 1 |  |
| Total ......................................... 18 or 19 | Total......................................... 14 or 1 |


| Junior Year |  |
| :---: | :---: |
| BIOL 410, Vertebrate Physiology .............. 2 | BIOL 230, Genetics |
| BIOL 411, Vertebrate Physiology Lab......., 2 | CHEM 242, Organic Chemistry II .............. 3 |
| CHEM 240, Organic Chemistry I.............. 3 | CHEM 243, Organic Chemistry II Lab ........ 1 |
| CHEM 241, Organic Chemistry I Lab ........ I | PHIL 290, Theory of Knowledge .............. 3 |
| History I.............................................. 3 | History II .............................................. 3 |
| Theology Scrip/Hist or Christ Sys Elective 3 |  |
| Total .................................................. 14 | Total ................................................... 13 |
| Senior Year |  |
| BIOL 498/CHEM 398, | BIOL 499/CHEM 399, |
| Biology or Chemical Research................ 1 | Biology or Chemical Research ................ 1 |
| Biology or Chemistry Electives* .............. 4 | Biology or Chemistry Electives* ............... 4 |
| Theology Ethics or Rel/Cult Elective ......... 3 | Social Science Elective ........................... 3 |
| Philosophy Elective ................................ 3 | General Elective .................................... 3 |
| PSYC 101, General Psychology ................ 3 | E/R\&S Focus Elective ............................ 3 |
| Fine Arts Elective .................................. 3 |  |
| Total ................................................ 17 | Total................................................. 14 |

* Student selects a senior year concentration of courses plus research in either Biology or Chemistry. Students concentrating in Chemistry should add Chemical Literature, one credit hour, to their junior year schedule.

Scheduling Notes:

- Consult the Undergraduate Core Curriculum description on page 93 of the Catalog.
- E/R\&S Focus Elective requirement may be used to satisfy another element of the Core or the major.
- A minimum of 120 credit hours is required for the degree.


## REQUIREMENTS FOR THE NATURAL SCIENCES MINOR

The Natural Sciences minor is designed for undergraduate students who wish to complete science courses generally required of applicants to medical school while completing a bachelor's degree in a non-science major.

- 34 hours of science courses including BIOL $160,161,162,163$, CHEM 160,161 , 162, 163, 240, 241, 242, 243, and PHYS 160, 161, 162, 163.
- A 2.000 cumulative average must be attained in these courses.


## PRE-PHARMACY PROGRAM

The Pre-Pharmacy Program is covered and administered by the Department of Chemistry. 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 prepharmacy 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 B.S. degree, this can be done easily within the B.S. in Biology, B.S. in Chemical Science, and B.S. in 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.


## Pre-Pharmacy

This block serves as a guideline for progress in the program. See your academic adviser.

| First Semester Credit Hours | Second Semester Credit Hours |
| :---: | :---: |
| Freshman Year |  |
| MATH 150, Elements of Calculus I ........... 3 | MATH 151, Elements of Calculus II .......... 3 |
| BIOL 160, General Biology I................... 2 | BIOL 162, General Biology II .................. 3 |
| BIOL 161, General Biology Lab ............... 2 | BIOL 163, General Biology Lab II............. 2 |
| CHEM 160, General Chemistry I ............... 3 | CHEM 162, General Chemistry II .............. 3 |
| CHEM 161, General Chemistry I Lab ......... 1 | CHEM 163, General Chemistry II Lab ........ 2 |
| THEO 111, Theological Foundations ........ 3 | PHIL 100, Ethics as Intro to Philosophy ..... 3 |
| PSYC 101, General Psychology ................. 3 | ENGL 101, English Composition ............... 3 |
|  | Cultural Diversity Elective ....................... 1 |
| Total .................................................. 18 | Total.................................................. 18 |
| Sophomore Year |  |
| CHEM 240, Organic Chemistry I.............. 3 | CHEM 242, Organic Chemistry II ............. 3 |
| CHEM 241, Organic Chemistry I Lab ....... 1 | CHEM 243, Organic Chemistry II Lab ........ 1 |
| PHYS 160, College Physics ..................... 3 | PHYS 162, College Physics II .................. 3 |
| PHYS 161, Intro Physics Lab I ................. 1 | PHYS 163, Intro Physics Lab II ................ 1 |
| MATH 116, Elementary Statistics ............ 3 | BIOL 200, Microbiology ......................... 3 |
| History I.............................................. 3 | PHIL 290, Theory of Knowledge .............. 3 |
| Literature elective .................................. 3 | ECON 200, Microeconomic Principles ....... 3 |
| Total ................................................ 17 | Total................................................. 17 |

## PRE-MORTUARY SCIENCE CURRICULUM

Sce page 159 for information.

## THE DEPARTMENT OF CLASSICS

The Department of Classics offers two bachelor's degrees, the Bachelor of Arts in Classics and the Bachelor of Arts in Classical Humanities, as well as minors in Greek, Latin and Classical Humanities. In addition, the department plays a major role in the Honors Bachelor of Arts degree. For this degree, see page 88 in Special University Programs.

## FACULTY

Faculty: DR. HARRISON, chair; DR. CUEVA; DR. SHAPIRO

## BACHELOR OF ARTS DEGREE IN CLASSICS

The Bachelor or Arts 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.

## Requirements for the Classics Major

Core Curriculum Requirements (see page 93): 64 hours, including

- Foreign language requirement: 12 hours (or equivalent competence) of a second foreign language.
Major Requirements
- 0-12 lower division hours in Latin or Greek (the number depending on prior achievement).
- 21 hours in Latin or Greek beyond the intermediate language level.
- A 2.500 cumulative average must be attained in the above courses.
- Pass a comprehensive examination.
- In addition to the above requirements, the student has 18-24 hours of nondesignated electives which can be used to meet specific interests or needs.


## B.A. Classics

This block serves as a guideline for progress toward a degree. See your academic adviser.

| First Semester Credit Hours | Second Semester Credit Hours |
| :---: | :---: |
| Freshman Year |  |
| ENGL 101 or 115, Engl Comp or Rhetoric. 3 | History II .............................................. 3 |
| History I............................................... 3 | LATN 102, Elementary Latin II or |
| LATN 101, Elementary Latin I or | GREK 102, Elementary Greek II ............. 3 |
| GREK 101, Elementary Greek I.............. 3 | Mathematics Elective .............................. 3 |
| Mathematics Elective ............................. 3 | Foreign Language Elective ...................... 3 |
| Foreign Language Elective ...................... 3 | PHIL 100, Ethics as Intro to Philosophy ..... 3 |
| Total .................................................. 15 | Total .................................................. 15 |
| Sophomore Year |  |
| Literature Elective .................................. 3 | ENGL/CLAS 205, Lit \& the Moral Imag .... 3 |
| LATN 201, Intro to Latin Literature | Latin or Greek Elective |
| Foreign Language Elective ...................... 3 | Science Elective ..................................... 3 |
| Science Elective ................................... 3 | PHIL 290, Theory of Knowledge .............. 3 |
| THEO 111, Theological Foundations ........ 3 | Cultural Diversity Elective ....................... 1 |
| Total ................................................. 15 | Total.................................................. 16 |


| General Electives .................................... 6 | General Elective ...................................... 3 |
| :---: | :---: |
| Latin or Greek Elective ........................... 3 | Latin or Greek Elective ............................ 3 |
| Social Science Elective ............................ 3 | Social Science Elective ............................. 3 |
| Theology Scrip/Hist or Christ Sys Elective . 3 | Philosophy Elective ................................. 3 |
|  | Theology Ethics or Rel/Cult Elective .......... 3 |
| Total .................................................... 15 | Total..................................................... 15 |
| Seni | Year |
| Latim or Greek Electives .......................... 6 | General Electives .................................... 8 |
| Fine Arts Elective .................................... 3 | Latin or Greek Electives .......................... 6 |
| Science Elective ..................................... 3 |  |
| E/R\&S Focus Elective ............................. 3 |  |
| Total .................................................... 15 | Total..................................................... I4 |

Scheduling Notes:

- Consult the Undergraduate Core Curriculum description on page 93 of the Catalog.
- E/R\&S Focus Elective requirement may be used to satisfy another element of the Core or the major.
- A minimum of 120 credit hours is required for the degree.


## REQUIREMENTS FOR THE GREEK MINOR

- Five courses in Greek beyond the Elementary II level
- A 2.000 cumulative average is required in all Greek courses.


## REQUIREMENTS FOR THE LATIN MINOR

- Five courses in Latin beyond the Elementary II level
- A 2.500 cumulative average is required in all Latin courses.


## BACHELOR OF ARTS DEGREE 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 progrann 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.

## Requirements for the Classical Humanities Major

Core Curriculum Requirements (see page 93): 64 hours, including

- Foreign language requirement included within the major.

Major Requirements

- 0-12 lower division hours in Latin or Greek (the number depending on prior achievement).
- 6 hours in Latin or Greek beyond the intermediate language level.
- 18 hours in classical culture offerings.
- A 2.500 cumulative average must be attained in the above courses.
- In addition to the above requirements, the student has approximately 26 hours of non-designated electives which can be used to meet specific interests or needs.

| B.A. Classical Humanities <br> This block serves as a guideline for progress toward a degree. See your academic adviser. |  |
| :---: | :---: |
|  |  |
| First Semester Credit Hours. | Second Semester Credit Hours |
| Freshman Year |  |
| LATN 101, Elementary Latin I or | LATN 102, Elementary Latin II or |
| GREK 101, Elementary Greek II .............. 3 | GREK 102, Elementary Greek If .............. 3 |
| History I............................................... 3 | History 11............................................. 3 |
| Mathematics Elective ............................. 3 | Mathematics Elective .............................. 3 |
| THEO 111, Theological Foundations ........ 3 | PHIL 100, Ethics as Intro to Philosophy ..... 3 |
| ENGL 101 or 115, Engl Comp or Rhetoric. 3 | Literature Elective .................................. 3 |
| Total ................................................... 15 | Total ................................................... 15 |
| Sophomore Year |  |
| Latin or Greek Elective ........................... 3 | Latin or Greek Elective ............................ 3 |
| Science Elective .................................... 3 | Science Elective .................................... 3 |
| Theology Scrip/Hist or Christ Sys Elective 3 | PHIL 290, Theory of Knowledge .............. 3 |
| Classics Elective ................................... 3 | Classics Elective .................................... 3 |
| Social Science Elective ........................... 3 | Social Science Elective ........................... 3 |
| Cultural Diversity Elective ....................... 1 |  |
| Total ................................................. 16 | Total................................................. 15 |
| Junior Year |  |
| Latin or Greek upper division course or Elective $\qquad$ | Latin or Greek upper division course or Elective $\qquad$ |
| Theology Ethics or Rel/Cult Elective ......... 3 | Philosophy Elective ............................... 3 |
| Classics Elective ................................... 3 | Classics Elective ................................... 3 |
| General Electives ................................... 6 | ENGL/CLAS 205, Lit and the Moral Imag . 3 |
|  | General Elective .................................... 3 |
| Total .................................................. 15 | Total .................................................. 15 |
| Senior Year |  |
| General Elective ................................... 3 | Classics Elective ................................... 3 |
| Fine Arts Elective ................................... 3 | General Electives .................................. 11 |
| Science Elective .................................... 3 |  |
| E/R\&S Focus Elective ............................ 3 |  |
| Classics Elective .................................... 3 |  |
| Total ................................................. 15 | Total.................................................. 14 |

## Scheduling Notes:

- Consult the Undergraduate Core Curriculum description on page 93 of the Catalog.
- E/R\&S Focus Elective requirement may be used to satisfy another element of the Core or the major.
- A minimum of 120 credit hours is required for the degree.


## REQUIREMENTS FOR THE CLASSICAL HUMANITIES MINOR

- Six courses in classical culture offerings.
- A 2.500 cumulative average must be attained in the classical culture courses.

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

## THE DEPARTMENT OF COMMUNICATION ARTS

The Department of Communication Arts offers an Associate of Arts degree and a Bachelor of Arts degree in four areas: Advertising, Electronic Media, Organizational Communication, and Public Relations. For more information on the associate degree, contact the Center for Adult and Part-time Students (CAPS). Also offered are minors in Communication Arts \& Performance Studies.

## FACULTY

Faculty: DR. FINCH, chair; DR. ANDERSON, DR. DAILY, MR. HAGERTY, DR. KING, MR. SCHICK, DR. SLATER, MR. SMITH, DR. WELKER Academic Staff: MS. MIMS, MS. PEARCE, MS. TIGHE Adjunct Faculty: MR. CLARK, MR. FELD, DR. FLOREZ, MR. GANGER, MS. GIBSON, MR. HILL, MR. KAISER, MR. MASTRIANI, MR. MUELLER, MS. SPRINGFIELD, FR. THEPE, MS. TEMPLETON, MR. ZAHN

## BACHELOR OF ARTS DEGREE IN COMMUNICATION ARTS

The Communication Arts majors 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. Basic skills in written and spoken communication receive emphasis in all four COMM areas: advertising, electronic media, organizational communication, and public relations.

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 COMM majors are required to take at least one writing course, one speaking course, one course in interpersonal communication, and the introductory survey course. In addition, students needing additional work in writing will be required to take COMM 106, 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 and Michigan areas from its new building 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.

## Requirements for the Communication Arts Majors

Core Curriculum Requirements (see page 93): 64 hours
Major Requirements: 36 hours

- Advertising: COMM 100, 101, 207, 230, 329, 330, 332, 334, 439, nine hours of guided COMM electives.
- Electronic Media: COMM 100, 101, 207, 240, 250, 340, 341 or 350,345 or 346, twelve hours of guided COMM electives.
- Organizational Communication: COMM 100, 101, 207, 209, 260, 264, 301, 329, $363,462,469$, three hours of guided COMM electives.
- Public Relations: COMM 100, 101, 207, 270, 271, 329, 370, 477, 479, a 3 hour advanced writing course, and six hours of guided COMM electives.
- A 2.000 cumulative average must be attained in the communication arts courses. Since each major recommends certain courses as COMM electives, it is important that students work closely with their academic advisors in the choice of these electives.
B.A. Communication Arts
This block serves as a guideline for progress toward a degree. See your academic adviser.
First Semester Credit Hours Second Semester Credir Hours
Freshman Year
Foreign Language Elective ......................... 3 PHIL 100, Ethics as Intro to Philosophy ..... 3
THEO 111, Theological Foundations ......... 3 Foreign Language Elective ..... 3
History I 3 Literature Elective ..... 3
COMM 100, Survey of Comm Studies *.... 3 History [1 ..... 3
ENGL 101 or 115, Engl Comp or Rhetoric. 3 COMM 101, Oral Communication ..... 3
Total 15 Total ..... 15
Sophomore Year
Science Elective 3 Science Elective ..... 3
Fine Arts Elective 3 ENGL/CLAS 205, Lit and the Moral Imag ..... 3
Mathematics Elective 3 Mathematics Elective ..... 3
PHIL 290, Theory of Knowledge 3 Theology Scrip/Hist or Christ Sys Elective .....  3
COMM 207, Interpersonal Communication Communication Arts Course ..... 3
Total 15 Total ..... 15
Junior Year
Philosophy Elective 3 E/R\&S Focus Elective ..... 3
Social Science Elective 3 Social Science Elective ..... 3
Science Elective 3 Theology Ethics or Rel/Cult Elective ..... 3
Communication Arts Courses 6 Communication Arts Courses ..... 6
Total 15 Total ..... 15
Senior Year
Communication Arts Courses 6 Communication Arts Courses ..... 6
General Electives 9 General Electives ..... 9
Total 15 Total ..... 15
* Fulfills Cultural Diversity requirement
Scheduling Notes:
- Consult the Undergraduate Core Curriculum description on page 93 of the Catalog.
- E/R\&S Focus Elective requirement may be used to satisfy another element of the Core or the major.
- A minimum of 120 credit hours is required for the degree.


## Communication Arts Major Requirements

## ADVERTISING

The goal of the Advertising major is to prepare students for a career in the field of advertising. This program offers a comprehensive study of advertising, including the principles of advertising, creative concepts, media planning, research, and management.

## Requirements ( 36 credit hours):

COMM 100, Survey of Communication Studies
COMM 101, Oral Communication
COMM 207, Interpersonal Communication
COMM 230, Introduction to Advertising
COMM 329, Communication Research Techniques
COMM 330, Creative Concepts in Advertising
COMM 332, Media Planning

## ELECTRONIC MEDIA

The Electronic Media major will prepare students for entry-level positions in radio, television, cable, and corporate video. The program emphasizes those skills which are necessary for work in both the commercial and noncommercial broadcast areas, as well as corporate uses of the electronic media.

Requirements ( 36 credit hours):
COMM 100, Survey of Communication Studies
COMM 101, Oral Communication
COMM 207, Interpersonal Communication
COMM 240, Fundamentals: Electronic Media
COMM 250, Video Production and Technology
COMM 340, Audio Production and Technology
COMM 341, Radio Lab OR
COMM 350, Television Lab
COMM 345, Introduction to Broadcast Journalism OR
COMM 346, Introduction to Broadcast Writing
Communication Arts Electives ( 12 credit hours)

## ORGANIZATIONAL COMMUNICATION

Organizational Communication students have the opportunity to gain the knowledge and practical skills necessary to promote effective communication processes within public and private organizations. The program emphasizes both written and oral communication, and students are encouraged to prepare themselves for a broad range of employment possibilities in areas such as sales, special events planning, human resources, industrial relations, training, and management.

Requirements ( 36 credit hours):
COMM 100, Survey of Communication Studies
COMM 101, Oral Communication
COMM 207, Interpersonal Communication
COMM 209, Group Dynamics
COMM 260, Organizational Communication
COMM 264, Persuasion
COMM 301, Presentational Speaking
COMM 329, Communication Research Techniques
COMM 363, Written Communication in Organizations
COMM 462, Principles \& Practices of Interviewing
COMM 469, Senior Seminar: Organizational Communication
Communication Arts Electives ( 3 credit hours)

## PUBLIC RELATIONS

The Public Relations major combines comprehensive theory and specific practical skills, in the context of a humanistic liberal education, to prepare students for public relations careers in the corporate, private nonprofit, and public sectors; or for a broad range of other careers that benefit from careful thinking and clear communication.

Requirements ( 36 credit hours):
COMM 100, Survey of Communication Studies
COMM 101, Oral Communication
COMM 207, Interpersonal Communication
COMM 270, Principles of Public Relations
COMM 271, Public Relations Writing
COMM 329, Communication Research Techniques

COMM 370. Media and Public Relations
COMM 477, Senior Seminar: Public Relations Management
COMM 479. Public Relations Ethics in Modern Society
Advanced Writing, selected from COMM 346, 363, 371, 375, 406, 446
Communication Arts Electives ( 6 credit hours)

## REQUIREMENTS FOR THE COMMUNICATION ARTS MINOR

- COMM 207, Interpersonal Communication
- COMM 209, Group Communication
- COMM 223, Survey of Mass Media
- COMM 224, Intercultural Communication
- COMM 301. Presentational Speaking
- One upper-level communication arts writing course from the following options: COMM 271, COMM 275, COMM 346, COMM 363, COMM 371, COMM 375, COMM 406, or COMM 446.
- A. 2.000 cumulative grade point average must be attained in all courses taken in the minor.


## REQUIREMENTS FOR THE PERFORMANCE STUDIES MINOR

- COMM 202, Performance Studies: Performing Texts
- COMM 203, Performance Studies: Staging Texts
- COMM 217, Acting I
- COMM 218, Introduction to the Theatre
- COMM 317, Acting II
- COMM 318, Directing for the Stage
- A 2.000 cumulative grade point average must be attained in all courses taken in the minor.


## REQUIREMENTS FOR THE ASSOCIATE OF ARTS DEGREE IN A COMMUNICATION ARTS MAJOR

Core Curriculum Requirements (see page 95): 31 hours
Concentration Requirements:

- Advertising ( 21 hours): COMM 100, 101, 207, 230, 332, 329 and three hours of COMM electives.
- Electronic Media ( 24 hours): COMM 100, 101, 207, 240, 250, 340, 341 or 350,345 or 346 .
- Organizational Communications ( 21 hours): COMM 100, 101, 207, 209, 260, 329 and three hours of COMM electives.
- Public Relations (21 hours): COMM 100, 101, 207,270, 271, 329 and three hours of COMM electives.
- A 2.000 cumulative average must be attained in the communication arts courses.


## THE DEPARTMENT OF ENGLISH

The Department of English offers the Bachelor of Arts, the Associate 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 (CAPS) also offered is a minor in English.

## FACULTY

Faculty: DR. FINKELSTEIN, chair; DR. CLINE-BAILEY, FR. CONNOLLY, DR. FONTANA, DR. GETZ, DR. IKEGAMI, DR. PIPINO, DR. SOUSA, DR. THOMAS, DR. WELSCH, MR. WESSLING, DR. WILLIAMS, DR. WINKELMANN

Academic Staff. DR. RUSSELL
Adjunct Faculty: MR. BERGER, DR. BLIGNAUT, MR. CAHILL, MS. CHAMBERS, DR. FLEMING, MS. FLOTTMAN, MR. KORAL, MR. MCKAY, DR. PADDOCK, DR. PETTIT, MR. PRUES, MR. REID, DR. TIMBERLAKE, MS, TODD

## BACHELOR OF ARTS DEGREE 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.

## Requirements for the English Major

Core Curriculum Requirements (see page 93): 64 hours, including

- Literature requirement included within the major.

Major Requirements

- 36 hours of English courses: ENGL 115, 205-Honors, 221, 222, 499, seven upperlevel electives ( $300-498$ ) including one each in Shakespeare, British literature, American literature, and language or writing.
- A 2.000 cumulative average must be attained in the English courses.

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.

## B.A. English

This block serves as a guideline for progress toward a degree. See your academic adviser.
First Semester Credit Hours Second Semester Credit Hours

## Freshman Year

| ENGL 115, Rhetoric | ENGL/CLAS 205, Lit \& Moral Imag (Hon) 3 |
| :---: | :---: |
| History I | History II ............................................ 3 |
| Foreign Language Elective | Foreign Language Elective ...................... 3 |
| PHIL 100, Ethics as Intro to Philosophy ..... 3 | THEO 111, Theological Foundations ......... 3 |
| Mathematics Elective ............................ 3 | Mathematics Elective ............................. 3 |
|  |  |

## Sophomore Year

ENGL 221, Poetry 3 ENGL 222, Rhetoric II: Theory \& Text ..... 3
PHIL 290, Theory of Knowledge 3 Theology Scrip/Hist or Christ Sys Elective , 3
Science Elective 3 Science Elective ..... 3
Social Science Elective 3 Social Science Elective ..... 3
Fine Arts Elective 3 E/R\&S Focus Elective ..... 3
Cultural Diversity Elective ..... 1
Total 16 Total ..... 15
Junior Year
ENGL 425, Shakespeare 3 American Literature Elective ..... 3
British Literature Elective 3 Language/Writing Elective ..... 3
Philosophy Elective 3 Theology Ethics or Rel/Cult Elective ..... 3
Science Elective 3 General Electives ..... 6
General Elective ..... 3
Total 15 Total ..... 15
Senior Year
English Electives 6 ENGL 499, English Senior Seminar ..... 3
General Electives 9 English Elective ..... 3
General Electives ..... 8
Total 15 Total ..... 14

Scheduling Notes:

- Consult the Undergraduate Core Curriculum description on page 93 of the Catalog.
- E/R\&S Focus Elective requirement may be used to satisfy another element of the Core or the major.
- A minimum of 120 credit hours is required for the degree.


## REQUIREMENTS FOR THE ENGLISH MINOR

- 18 hours of English courses: ENGL 115, 205-Honors, 221, three upper-level electives (300-498) including one each in British literature and American literature.
- A 2.000 cumulative average must be attained in the English courses.


# REQUIREMENTS FOR THE ASSOCIATE OF ARTS DEGREE IN ENGLISH 

Core Curriculum Requirements (see page 95): 28 hours
Concentration Requirements

- 15 hours of English courses: ENGL 115, 221, three upper-level electives (300-498) including one each in British literature and American literature.
- A 2.000 cumulative average must be attained in the English courses.


## MASTER OF ARTS DEGREE 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, 18 of which must be in 500 level only or 600 level courses. Plan $A$ is recommended for most students.
Plan B: 24 semester hours of course work, 15 of which must be in 500 level only or 600 level 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:

- ENGL 512 - Literary Theory
- ENGL 525 - Shakespeare
- A 300 or 500 level English course on language if the student has not taken one as an undergraduate
- A 500 or 600 level course on women or minority authors
- One graduate seminar
- 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 fifteen works of literature and literary theory. Eleven of these works are chosen by the department every two years; the remaining four are chosen by the individual student. The comprehensive examination is given in December and July.

The Master of Arts program in English invites applications from students with a bachelor's degree and a solid academic record. Students seeking admission are expected to have a 3.000 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. Admission decisions are based on factors such as past academic performance, standardized test score, and other information submitted.

Further information and application materials may be obtained from the Office of Graduate Services, 312 Elet Hall, (513) 745-3360.

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

## THE DEPARTMENT OF HISTORY

The Department of History offers the Bachelor of Arts, the Associate of Arts, and the Master of Arts in History. For information on the associate degree, contact the Center for Adult and Parttime Students (CAPS). Also offered is a minor in History.

## FACULTY

Faculty: DR. FORTIN, chair; DR. ANDERSON, DR. FAIRFIELD, FR. GRAHAM, DR. GRUBER, DR. KORROS, FR. LAROCCA, DR. SIMON, DR. THOMPSON, DR. WILSON

Visiting Faculry: DR. CLINE
Adjunct Faculty: MR. BALSKUS, DR. MILLER, MS. PITTNER, MR. UHRIG, MR. WEISBROD

## BACHELOR OF ARTS DEGREE 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.

## Requirements for the History Major

Core Curriculum Requirements (see page 93): 64 hours, including

- History requirement included within the major.

Major Requirements

- 36 hours of history courses: HIST 133, 134, 143, 144, five 3-hour elective courses (200-399), three 3-hour seminars (400-479).
- A 2.000 cumulative average must be attained in the history courses.
B.A. History
This block serves as a guideline for progress toward a degree. See your academic adviser.
First Semester Credit Hours Second Semester Credit Hours
Freshman Year
HIST 133, Western Civilization I................ 3 HIST 134, Western Civilization II ..... 3
Foreign Language Elective Foreign Language Elective ..... 3
Science Elective Science Elective ..... 3
PHIL 100, Ethics as Intro to Philosophy ..... 3 THEO 111, Theological Foundations ..... 3
ENGL 101 or 115, Engl Comp or Rhetoric. Literature Elective ..... 3
Total 15 Total ..... 15

| B.A. Histor First Semester | continued Second Semester Credit Hours |
| :---: | :---: |
| Sophomore Year |  |
| HIST 143, United States I ........................ 3 HIST 144, United States II ........................ 3 |  |
| Social Science Elective ........................... 3 | ENGL/CLAS 205, Lit and the Moral Imag . 3 |
| Mathematics Elective .............................. 3 | Mathematics Elective ............................... 3 |
| Theology Scrip/Hist or Christ Sys Elective 3 | PHIL 290, Theory of Knowledge .............. 3 |
| Elective (continued study of foreign $\qquad$ language strongly recommended) $\qquad$ | Elective (continued study of foreign <br> language strongly recommended) $\qquad$ 3 |
| Cultural Diversity Elective ........................ 1 . |  |
| Total .................................................... 16 | Total...................................................... 15 |
| Junior Year |  |
| History Electives .................................... 6 | History Elective ....................................... 3 |
| History Seminar ...................................... 3 | History Seminar ..................................... 3 |
| Theology Ethics or Rel/Cult Elective ......... 3 | Science Elective ....................................... 3 |
| Social Science Elective ............................. 3 | General Elective ...................................... 3 |
|  | E/R\&S Focus Elective .............................. 3 |
| Total ................................................... 15 | Total ...................................................... 15 |
| Senior Year |  |
| History Elective ...................................... 3 | History Elective ....................................... 3 |
| History Seminar ...................................... 3 | Philosophy Elective ................................. 3 |
| Fine Arts Elective ................................... 3 | General Electives .................................... 8 |
| General Electives .................................... 6 |  |
| Total .................................................... 15 | Total..................................................... /4 |
| Scheduling Notes: |  |
| - E/R\&S Focus Elective requirement may be used to satisfy another element of the Core or the major. <br> - A minimum of 120 credit hours is required for the degree. |  |
| REQUIREMENTS FOR THE HISTORY MINOR |  |
| - 18 hours of history courses: three courses drawn from HIST 133, 134, 143, and 144, two 3-hour electives from 200-399, and a 3-hour seminar from 400-479. <br> - A 2.000 cumulative average must be attained in the history courses. |  |
| REQUIREMENTS FOR THE ASSOCIATE OF SCIENCE |  |
| DEGREE IN HISTORY |  |
| Core Curriculum Requirements (see page 95): 31 hours, including <br> - History requirement included within the concentration. |  |
| Concentration Requirements: <br> - 15 hours of history courses: HIST 134 or electives chosen from HIST 200-399. <br> - A 2.000 cumulative average must be a | 144 continuation of core course, and four ained in the history major. |

## MASTER OF ARTS DEGREE 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 Ph.D.. The Nonresearch 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.

The Master of Arts in History program invites applications from students with a bachelor's degree and a solid academic record. 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. Admission decisions are based on factors such as past academic performance, standardized test score, and other information submitted. The department chair may make successful completion of certain undergraduate courses a prerequisite for admission to the program.

Further information and application materials may be obtained from the Office of Graduate Services, 312 Elet Hall, (513) 745-3360.

## Master's Degree Requirements:

1. Each candidate must 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 $60 \%$ of their course work in courses numbered 500 or above. The remainder of the course work can 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 (twelve in courses numbered 500 or above), pass the comprehensive examination, and complete a research thesis for six hours of credit 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 (eighteen in courses numbered 500 or above), pass the comprehensive examination, and submit to the department chair a major paper, accepted in a research seminar, which gives evidence of scholarly work.

## MASTER OF ARTS DEGREE 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, lifelong 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 opportunity 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-VI (HUMN 501-506). Students must take one pair of these courses: HUMN 501-502, HUMN 503-504, or HUMN 505-506; the others may be taken as electives.
- LANGUAGE OF THE HUMANITIES (HUMN 511).
- THE QUEST FOR MEANING AND VALUES, satisfied by completing an approved course in either philosophy or theology.
- LITERATURE AND THE HUMAN IMAGINATION, satisfied by taking an approved course in literature.
Elective Courses
- 15 hours chosen from approved courses in the humanities, liberal arts, and social sciences. Through these elective courses, 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. At least $60 \%$ of the course work must be in courses numbered 500 or above.

With its orientation toward personal growth and self-satisfaction, the Master of Arts in Humanities is 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, Applicants must have the director's approval prior to registering for courses. For further information regarding admission, see page 51 of this catalog.

Further information and application materials may be obtained from the Office of Graduate Services, 312 Elet Hall, (513) 745-3360.

## THE DEPARTMENT OF MATHEMATICS AND COMPUTER SCIENCE

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

## FACULTY

Faculty: DR. WALKER, chair; DR. BERRY, DR. BRIGHT, DR. FLASPOHLER, DR. JOHNSON, DR. LARKIN, DR. LEWANDOWSKI, DR. OTERO, DR. PULSKAMP, DR. ROSSA, DR. SNODGRASS, MR. TRUNNELL

Academic Staff: MS. DORAN, MS. HOLLAND
Adjwet Facully: MR. BUTZ, DR. CHUDNOVSKY, MR. COLE, MR. DOYLE, BR. LOHREY, MS. SCHUSTER, DR. TORSELLA, MR. WILLIAMS

## BACHELOR OF SCIENCE DEGREE 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 economics as well as other 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.

[^1]| B.S. Mathematics <br> This block serves as a guideline for progress toward a degree. See your academic adviser. |  |
| :---: | :---: |
|  |  |
| First Semester Credit Hours | Second Semester Credit Hours |
| Freshman Year |  |
| MATH 170, Calculus I ............................ 4 MATH 171, Calculus II ........................... 4 |  |
| CSCI 170, Computer Science I ................ 3 MATH 180, Elements of Discrete Math ...... 3 |  |
| Foreign Language Elective ....................... 3 Foreign Language Elective ....................... 3 |  |
| ENGL 101 or 115, Engl Comp or Rhetoric. 3 PHIL 100, Ethics as Intro to Philosophy .... 3 |  |
|  | THEO 111, Theological Foundations ......... 3 |
| Total ................................................... 13 Total..................................................... 16 |  |
| Sophomore Year |  |
| MATH 220, Calculus III ......................... 4 MATH 230, Differential Equations ........... 3 |  |
| MATH 210, Elementary Linear Algebra ... 3 MATH 240, Linear Algebra ..................... 3 |  |
| History I ................................................ 3 History II ............................................... 3 |  |
| Literature Elective ................................. 3 ENGL/CLAS 205, Lit and the Moral Imag . 3 |  |
| PHIL 290, Theory of Knowledge .............. 3 Theology Scrip/Hist or Christ Sys Elective . 3 |  |
|  | Cultural Diversity Elective ........................ 1 |
| Total ..................................................... 16 Total..................................................... 16 |  |
| Junior Year |  |
| MATH 340, Abstract Algebra I ................ 3 MATH 370, Intro to Real Analysis ............. 3 |  |
| Mathematics Elective .............................. 3 Mathematics Elective ............................... 3 |  |
| Philosophy Elective ................................. 3 Theology Ethics or Rel/Cult Elective .......... 3 |  |
| Science Elective ..................................... 4 Science Elective ...................................... 4 |  |
| Fine Arts Elective .................................... 3 General Elective ...................................... 3 |  |
| Total ................................................... 16 Total..................................................... 16 |  |
| Senior Year |  |
| Mathematics Elective .............................. 3 | Mathematics Elective ............................... 3 |
| Social Science Elective ............................ 3 | Social Science Elective ............................. 3 |
| General Electives ..................................... 5 | General Elective ...................................... 3 |
| E/R\&S Focus Elective .............................. 3 | Science Elective or General Elective .......... 4 |
| Total ................................................... 14 | Total .................................................... 13 |

## Scheduling Notes:

- Consult the Undergraduate Core Curriculum description on page 93 of the Catalog.
- E/R\&S Focus Elective requirement may be used to satisfy another element of the Core or the major.
- A minimum of 120 credit hours is required for the degree.


## REQUIREMENTS FOR THE MATHEMATICS MINOR

- 18 hours of mathematics courses: MATH 170, 171, 210, and at least 7 additional hours of mathematics electives (180-397).
- A 2.000 cumulative average must be attained in the mathematics courses.


## BACHELOR OF SCIENCE DEGREE 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 programming and application in such areas as accounting, 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 computerrelated fields and for graduate work in computer science or other areas.

## Requirements for the Computer Science Major

Core Curriculum Requirements (see page 93): 64 hours, including

- Sciences: PHYS 242, 243, 244 and 245.
- Mathematics requirement included within the major.

Major Requirements

- 36 hours of computer science courses: CSCI 170, 172,180, 210, 220, 250, 260,300, $310,320,390$, plus nine hours of computer science electives (CSCI 200-397),
- 14 hours of mathematics courses: MATH 170, 171, 180, and 156 or 210.
- Six additional hours of PHYS 170, 172.
- A 2.000 cumulative average must be attained in the computer science courses.
- Fulfill the current senior 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. Any student wishing to major in computer science should consult a member of the computer science staff before registration.

## B.S. Computer Science

This block serves as a guideline for progress toward a degree. See your academic adviser.

| First Semester Credit Hours | Second Semester Credit Hours |
| :---: | :---: |
| Freshman Year |  |
| CSCI 170, Computer Science I ................. 3 | CSCI 180, Computer Science II................ 3 |
| CSCI 172, Computer Science I Lab ........... 1 | MATH 180, Elements of Discrete Math ...... 3 |
| MATH 170, Calculus I ............................ 4 | MATH 171, Calculus II ........................... 4 |
| Foreign Language Elective ....................... 3 | Foreign Language Elective ....................... 3 |
| THEO 111, Theological Foundations ........ 3 | PHIL 100, Ethics as Intro to Philosophy ..... 3 |
| ENGL 101 or 115, Engl Comp or Rhetoric. 3 |  |
| Total .................................................. 17 | Total .................................................... 16 |
| Sophomore Year |  |
| CSCI 220, Data Structures \& Algorithms ... 3 | CSCI 260, Software Engineering ................ 3 |
| CSCI 210, Machine Org \& Assembly Lang 3 | CSCI 250, Languages \& Automata ............ 3 |
| PHYS 170, University Physics I ............... 3 | PHYS 172, University Physics II............... 3 |
| Theology Scrip/Hist or Christ Sys Elective 3 | PHIL 290, Theory of Knowledge .............. 3 |
| Literature Elective ................................. 3 | ENGL/CLAS 205, Lit \& the Moral Imag .... 3 |
| Cultural Diversity Elective ....................... 1 |  |
| Total .................................................. 16 | Total.................................................. 15 |


| First Semester Credit Hours | Second Semester Credit Hours |
| :---: | :---: |
| Junior Year |  |
| CSCI 300, Programming Languages .......... 3 | CSCI 310, Compiler Construction ............. 3 |
| PHYS 242, Electronics I .......................... 2 | PHYS 244, Electronics II .......................... 2 |
| PHYS 243, Electronics Lab I .................... 1 | PHYS 245, Electronics Lab II ................... I |
| History I................................................ 3 | History II ................................................ 3 |
| Science Elective ..................................... 3 | Philosophy Elective ................................. 3 |
| MATH 156, General Statistics or MATH 210, Elementary Linear Algebra . 3 | Computer Science Elective ....................... 3 |
| Total ...................................................... 15 | Total ...................................................... 15 |
| Senior Year |  |
| CSCI 320, Operating Systems ................... 3 | CSCI 390, Senior Seminar \& Project + ...... 2 |
| General Elective ..................................... 3 | Computer Science Elective ........................ 3 |
| Social Science Elective ........................... 3 | Social Science Elective ............................. 3 |
| Theology Ethics or Rel/Cult Elective ......... 3 | General Elective ....................................... 3 |
| Fine Arts Elective .................................... 3 |  |
| Total .................................................... 15 | Total ..................................................... I1 |

+ Students taking Senior Seminar and Project should contact the chair of the Mathematics and Computer Science Department one semester before enrolling in this course.

Scheduling Notes:

- Consult the Undergraduate Core Curriculum description on page 93 of the Catalog.
- E/R\&S Focus Elective requirement may be used to satisfy another element of the Core or the major.
- A minimum of 120 credit hours is required for the degree.


## REQUIREMENTS FOR THE COMPUTER SCIENCE MINOR

- 16 hours of computer science (or related) courses: CSCI 170, 172, 180, 210, 220, plus one approved 3-hour CSCI elective course.
- A 2.000 cumulative average must be attained in all computer science courses.


## SPECIAL NOTE

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 the Department of Accounting and Information Systems for additional computer courses.

## THE DEPARTMENT OF MODERN LANGUAGES

The Department of Modern Languages offers the Bachelor of Arts and Associate of Arts degrees in French, German, and Spanish. For information on the associate degrees, contact the Center for Adult and Part-ime Students (CAPS) also offered are minors in French, German, Spanish and Latin American Studies, as well as other languages.

## FACULTY

Faculty: DR. RECKER chair: DR. COMPTON, DR. HODGSON, FR. KENNEALY, DR. KNUTSON, DR, MANTERO

Academic Staff: MS. GODDARD, MS. McDIARMID, MS. THEMUDO,
Adjunct Faculty: American Sign Language - MS. FLEMING, MR. MILLER, MS. MONAHAN, MS. CHAMBERS; French - MS. BECKER, MS. LAJEUNESSE, MS. KECK; German - MS. HASLER, MS. WILSON; Italian - FR. DELLA-PICCA; Japanese - MR. TSUKAKOSHI; Spanish - MS. DURST, DR. MARKAIDA, MS. MERTZ, MR. MILES, MS. ROMERO, MS. RUSSELL, MR. TAYLOR.

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.

All French/German/Spanish majors must complete a senior project during the final semester.

## BACHELOR OF ARTS DEGREE IN FRENCH, GERMAN OR SPANISH

The programs for majors in French, German, 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 the Modern Languages Major

Core Curriculum Requirements (see page 93): 64 hours, including

- Foreign language requirement included within the major. Major Requirements
- Placement test to determine which lower division courses are required.
- Completion of 27 hours of upper division courses (300-499) in a language:
a. French: must include nine hours from those numbered FREN 300-351.
b. German: must include nine hours from those numbered GERM 300-311.
c. Spanish: must include at least six hours in language from those numbered

SPAN 300-306, and at least six hours in literature/culture from those numbered SPAN 350-450.

- Completion of one credit senior project, FREN/GERM/SPAN 399.
- A 2.000 cumulative average must be attained in the major.

Students are encouraged to combine a modern language major with a second major or a related minor.

Undergraduates who wish to be certified as teachers of French, German 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 language teacher certification.

| B. A. French/German/Spanish |  |
| :---: | :---: |
|  |  |
| First Semester Credit Hours | Second Semester Credit Hours |
| Freshman Year |  |
| History | History II |
| FREN/GERM/SPAN 201, Intermediate I ... 3 | FREN/GERM/SPAN 202, Intermediate II .. 3 |
| ENGL 101 or 115, Engl Comp or Rhetoric. 3 | Science Elective ..................................... 3 |
| Mathematics Elective ............................. 3 | PHIL 100, Ethics as Intro to Philosophy .... 3 |
| Fine Arts Elective .................................. 3 | Mathematics Elective .............................. 3 |
| Total .................................................. 15 | Total.................................................. 15 |
| Sophomore Year |  |
| Social Science Elective ........................... 3 | Social Science Elective ........................... 3 |
| THEO 111, Theological Foundations ......... 3 | French, German or Spanish Elective .......... 3 |
| Science Elective ................................... 3 | Theology Scrip/Hist or Christ Sys Elective . 3 |
| FREN/GERM/SPAN 300, Advanced ......... 3 | Science Elective ..................................... 3 |
| PHIL 290, Theory of Knowledge .............. 3 | General Elective ..................................... 3 |
| Cultural Diversity Elective ....................... 1 |  |
| Total .................................................. 16 | Total.................................................. 15 |
| Junior Year |  |
| Literature Elective ................................. 3 | ENGL/CLAS 205, Lit and the Moral Imag . 3 |
| Philosophy Elective ............................... 3 | French, German or Spanish Electives ......... 6 |
| French, German or Spanish Electives ......... 6 | General Elective ..................................... 3 |
| Theology Ethics or Rel/Cult Elective ......... 3 | E/R\&S Focus Elective ............................ 3 |
| Total ................................................. 15 | Total .................................................. 15 |
| Senior Year |  |
| French, German or Spanish Electives ......... 6 General Electives ....................................... 9 | French, German or Spanish Elective ......... 3 |
|  | General Electives ................................. 10 |
|  | FREN/GERM/SPAN 399, Senior Project.... 1 |
| Total ................................................. 15 | Total .................................................. 14 |
| *Elementary French, German and Spanish are available to students with no previous language study or to those who place into these levels. |  |
| Scheduling Notes: <br> - Consult the Undergraduate Core Curriculum description on page 93 of the Catalog. <br> - E/R\&S Focus Elective requirement may be used to satisfy another element of the Core or the major. <br> - A minimum of 120 credit hours is required for the degree. |  |
|  |  |
| REQUIREMENTS FOR <br> 15 hours of French courses: two course FREN 420-461. <br> A 2.000 cumulative average must be | THE FRENCH MINOR <br> from FREN 300-351 and three courses from ttained in the French courses. |

## REQUIREMENTS FOR THE GERMAN MINOR

- 15 hours of German courses: five courses from GERM 300-494.
- A 2.000 cumulative average must be attained in the German courses.


## REQUIREMENTS FOR THE SPANISH MINOR

- 15 hours of Spanish courses: two courses from SPAN 300-306, two courses from SPAN 350-450, and one 3-hour elective from SPAN 300-400 levels.
- A 2.000 cumulative average must be attained in the Spanish courses.


## REQUIREMENTS FOR THE LATIN AMERICAN STUDIES MINOR

- 18 hours of courses: L.A.S. core course taught in English, one course in Spanish language development (SPAN 300-304), one course in Latin American Literature (SPAN 427-445), one course in theology as approved, one course in history (HIST 340-344, 428), one elective course from above areas or SPAN 306 or SPAN 351.
- A 2.000 cumulative average must be attained in these courses.


## REQUIREMENTS FOR THE ASSOCIATE OF ARTS DEGREE IN FRENCH, GERMAN OR SPANISH

Core Curriculum Requirements (see page 95): 31 hours
Concentration Requirements:

- In which zero to twelve credit hours of lower division courses are required as determined by the placement test.
- Five upper division courses in a language:
a. French: must include at least six credit hours in language/culture (FREN 300351) and six credit hours in literature (FREN 420-461).
b. German: must include at least six credit hours in language/culture (GERM 300-351) and six credit hours in literature (GERM 352-470).
c. Spanish: must include at least six credit hours in language (SPAN 300-306) and six credit hours in literature/culture (SPAN 350-445).
- A 2,000 cumulative average must be attained in the concentration.


## THE DEPARTMENT OF MUSIC

The Department of Music offers two bachelor's degree programs: the Bachelor of Arts in Music and, in conjunction with the Department of Education, the Bachelor of Science in Music Education. Also offered are minors in music and jazz. The department also offers a broad, general exposure to the field of music through a variety of courses for students as they pursue a liberal arts education. In addition, opportunity for instruction in an applied instrument/voice is available upon departmental approval, as is the opportunity for participation in vocal and instrumental ensembles.

## FACULTY

Faculty: DR. ROEHRIG, chair; MS. BUEL, DR. SKEIRIK
Adjunct Faculty: MS. BEATY, MS. BEEBE, MR. BELL, MS. BRINKSMEIER, MS. CAMPBELL, MR. CAMPIONE, MR. DEFOOR, DR. EAGEN, MR. GARDNER, MR. HART, MS. HAUTZENROEDER, MR. HINKLE, MR. JOHNS, MR. KEENE, MR. LEAVITT, MR. MARQUIS, MR. MERCER, MR. PARR, MR. PRIOR, MS. REYNOLDS, MR. SHERWOOD, MS. SLATER, MR. SWISHER, MS. TRYON-ANDRES, MR. WELCH, MR. WELLS, MR. WOOLARD, MR. YENNEY

## BACHELOR OF ARTS DEGREE IN MUSIC

## Requirements for the Music Major

Core Curriculum Requirements (see page 93 ): 64 hours, including

- Fine arts requirement included within the major.

Major Requirements

- 34 hours of music courses: MUSC 200, 201, 202, 203, 210, 211,300,301, 302, 303, 310, 311, 400, 420.
- 8 hours in applied music.
- 8 semesters of participation in a vocal and/or instrumental ensemble.
- Pass applied music examination at the end of each semester.
- Pass a piano proficiency examination before the senior year.
- Present a recital or write a thesis in major area of concentration during the senior year.
- Recital attendance (minimum of 40 recitals).
- A 2.000 cumulative average must be attained in the music courses.

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.

## B.A. Music

This block serves as a guideline for progress toward a degree. See your academic adviser

| First Semester Credit Hours | Second Semester Credit Hours |
| :---: | :---: |
| Freshman Year |  |
| MUSC 210, Survey of Music Literature I ... 3 | MUSC 211, Survey of Music Literature II .. 3 |
| MUSC 200, Theory I .............................. 3 | MUSC 202, Theory II ............................. 3 |
| MUSC 201, Sightsinging/Dictation I ......... 1 | MUSC 203, Sightsinging/Dictation II ........ 1 |
| Applied Music ...................................... 1 | Applied Music ....................................... 1 |
| Ensemble ............................................. 1 | Ensemble .............................................. 1 |
| ENGL 101 or 115, Engl Comp or Rhetoric. 3 | Literature Elective .................................. 3 |
| Mathematics Elective ............................. 3 | THEO 111, Theological Foundations ......... 3 |
|  | Mathematics Elective .............................. 3 |
| Total ................................................. 15 | Total................................................. 18 |


| B.A. Musi | continued |
| :---: | :---: |
| First Semester Credit Hours | Second Semester Credit Hours |
| Sophomore Year |  |
| MUSC 310, Music History 1.................... 3 | MUSC 311, Music History II ..................... 3 |
| MUSC 300, Theory III ............................ 3 | MUSC 302, Theory IV ............................ 3 |
| MUSC 301, Sightsinging/Dictation IIl ...... I | MUSC 303, Sightsinging/Dictation IV ....... 1 |
| Applied Music ...................................... I | Applied Music ........................................ I |
| Ensemble ............................................... 1 | Ensemble ................................................ I |
| Foreign Language Elective ....................... 3 | Foreign Language Elective ....................... 3 |
| PHIL 100, Ethics as Intro to Philosophy .... 3 | Theology Scrip/Hist or Christ Sys Elective. 3 |
| Cultural Diversity Elective ........................ 1 |  |
| Total ..................................................... 16 | Total.................................................... 15 |
| Junior Year |  |
| MUSC 420, Conducting I ......................... 3 | MUSC 400, Form and Analysis ................. 3 |
| Applied Music ........................................ I | Applied Music ......................................... 1 |
| Ensemble ............................................... 1 | Ensemble ................................................ I |
| History I ................................................. 3 | History II ................................................ 3 |
| Science Elective ...................................... 3 | Science Elective ...................................... 3 |
| PHIL 290, Theory of Knowledge .............. 3 | Theology Ethics or Rel/Cult Elective ......... 3 |
| Total .................................................... 14 | Total.................................................... 14 |
| Senior Year |  |
| Applied Music ........................................ I | Music Elective ........................................ 3 |
| Ensemble ............................................... 1 | Applied Music ......................................... 1 |
| Senior Recital ......................................... 0 | Ensemble ................................................ I |
| General Elective ...................................... 3 | E/R\&S Focus Elective .............................. 3 |
| ENGL/CLAS 205, Lit and the Moral Imag . 3 | Social Science Elective ............................. 3 |
| Social Science Elective ............................ 3 | Philosophy Elective ................................. 3 |
| Science Elective ..................................... 3 |  |
| Total .................................................... 14 | Total.................................................... 14 |

Scheduling Notes:

- Consult the Undergraduate Core Curriculum description on page 93 of the Catalog.
- E/R\&S Focus Elective requirement may be used to satisfy another element of the Core or the major.
- A minimum of 120 credit hours is required for the degree.


## REQUIREMENTS FOR THE MUSIC MINOR

- 18 hours of music courses: MUSC 200, 202, 210 or 310,211 or 311,3 hours in applied music, 3 hours in an ensemble.


## REQUIREMENTS FOR THE JAZZ MINOR

18 hours of music courses: MUSC 101, 114, 198,206, 306, 307, 3 hours in applied music, 3 hours in jazz ensemble.

## BACHELOR OF SCIENCE DEGREE IN MUSIC EDUCATION

(Certification K-12)

## Requirements for the Music Education Major

Core Curriculum Requirements (see page 93 ): 64 hours, including

- Social sciences: EDFD 141, 142, EDSP 438
- Fine arts requirement included within the major.

Major Requirements

- 49 hours in music courses: MUSC 200, 201, 202, 203,210,211,221,300,301,302, $303,310,311,320,321,350,351,352,353,354,401,420,421$.
- 8 hours in applied music.
- Pass applied music examination at the end of each semester.
- 8 semesters of participation in a vocal and/or instrumental ensemble.
- 10 hours of education courses required for certification, EDSE 131,302,311 and 315 .
- Pass a piano proficiency examination before the senior year.
- Present a recital or write a thesis in major area of concentration during the senior year.
- Recital attendance (minimum of 40 recitals).
- A 2.000 curnulative average must be attained in the music and education courses.

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.

| B.S. Music Education <br> This block serves as a guideline for progress toward a degree. See your academic adviser. <br> Credit Hours |
| :--- |
| Freshman Year <br> First Semester |


| First Semester | B.S. Music Education, continued <br> Credit Hours | Second Semester |
| :--- | :--- | :--- |$\quad$ Credit Hours

## Scheduling Notes:

- Consult the Undergraduate Core Curriculum description on page 93 of the Catalog.
- E/R\&S Focus Elective requirement may be used to satisfy another element of the Core or the major
- A minimum of 120 credit hours is required for the degree


## THE DEPARTMENT OF PHILOSOPHY

The Department of Philosophy offers the Bachelor of Arts degree in Philosophy and a minor in Philosophy.

## FACULTY

Faculty: DR. RETHY, chair; DR. BLAIR, DR. BONVILLAIN, DR. COLELLA, DR. W. JONES, DR. KRUSE, MR. LETTENEY, DR. MATZ, MR. MECONI, FR. OPPENHEIM, DR. POLT, DR. QUINN, DR. SWEENEY, DR. TALASKA

## BACHELOR OF ARTS DEGREE 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, law school and for graduate study in the humanities or social sciences.

## Requirements for the Philosophy Major

Core Curriculum Requirements (see page 93 ): 64 hours, including

- Philosophy requirement included within the major.

Major Requirements

- 36 hours of philosophy courses: PHIL 100, Ethics; PHIL 290, Theory of Knowledge; PHIL 311, Symbolic Logic; 3 hours of Metaphysics - either PHIL 340 or a course designated by the department as a Metaphysics elective; 12 hours from "History of Philosophy" sequence (typically PHIL 300-309); and 12 hours of general electives. One course from the 24 hours of history and free electives must be in a seminar, which may be restricted to students majoring or minoring in Philosophy.
- Senior Thesis, due by midterm, second semester of senior year.
- Oral examination on thesis, held at end of senior year.
- Written comprehensive examination at end of senior year. Written information on the thesis, oral examination and comprehensive examination may be obtained from the chair of the department.
- A 2.000 cumulative average must be attained in the philosophy courses.

| B. A. Philosophy |  |  |  |
| :--- | :---: | :---: | :---: |
| This block serves as a guideline for progress toward a degree. See your academic adviser. <br> Credit Hours |  |  |  |
| First Semester Second Semester$\quad$ Credit Hours |  |  |  |
| Freshman Year |  |  |  |
| History I............................................. 3 |  |  |  |


|  | B.A. Philosophy, continued <br> Credit Hours | Second Semesver |
| :--- | :--- | :--- |$\quad$ Credit Hours

## Scheduling Notes:

- Consult the Undergraduate Core Curriculum description on page 93 of the Catalog.
- E/R\&S Focus Elective requirement may be used to satisfy another element of the Core or the major.
- A minimum of 120 credit hours is required for the degree.


## REQUIREMENTS FOR THE PHILOSOPHY MINOR

- 18 hours of philosophy courses beyond the introductory course (PHIL 100): PHIL 290; a history of philosophy elective chosen from courses numbered 300-308; two philosophy electives chosen from courses numbered 300 or higher; PHIL 340; and a seminar course. See Schedule of Classes listing under University Scholars Program for seminar course availability.
- A 2.000 cumulative average must be attained in these courses.


## 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, as well as a minor in Physics.

## FACULTY

Faculty: DR. YERIAN, chair; MR. HART, DR. HERBERT, DR. KECK, DR. MILLER, DR. TOEPKER

Laboratory Instructor: MR. TURPIN
Adjunct Faculty: MS. LAWSON, MR. SICKING, MR. WIDMER

## BACHELOR OF SCIENCE DEGREE 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 stadents 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.

## Requirements for the Physics Major

Core Curriculum Requirements (see page 93): 64 hours, including

- Mathematics: MATH 170 and 171.
- Sciences requirement included within the major.

Major Requirements

- 46 hours of physics courses: PHYS 170, 171, 172, 242, 243, 244, 245, 330, 331, $340,341,350,351,360,361,364,365,376,377,382,398$.
- 21 hours of additional science and mathematics courses: CHEM 160,161,162, 165; CSCI elective; MATH 220, 230; and a MATH elective ( 210 or above).
- A 2.000 cumulative average must be attained in the courses within the major.

Specific requirements are modifiable for the needs and interests of each individual student.
B.S. Physics
This block serves as a guideline for progress toward a degree. See your academic adviser.

First Semester Credit Hours Second Semester Credit Hours
Freshman Year
PHYS 170, University Physics I 3 PHYS 172, University Physics II ..... 3
PHYS 171, Explorations in Physics 1 MATH 171, Calculus II ..... 4
MATH 170, Calculus I 4 ENGL 101 or 115 , Engl Comp or Rhetoric ..... 3
PHIL 100. Ethics as Intro to Phil 3 Computer Science Elective ..... 3
Foreign Language 3 Foreign Language ..... 3
Total 14 Total ..... 16
Sophomore Year
PHYS 242, Electronics I 2 PHYS 244, Electronics II ..... 2
PHYS 243, Electronics I Lab 1 PHYS 245, Electronics II Lab ..... 1
PHYS 350, Theoretical Mechanics I 3 PHYS 35I, Theoretical Mechanics II ..... 3
MATH 220, Calculus III 4 MATH 230, Differential Equations ..... 3
CHEM 160, General Chemistry 1 3 CHEM 162, General Chemistry II ..... 3
CHEM 161, General Chemistry I Lab 1 CHEM 165, General Chemistry II Lab ..... 1
THEO 111, Theological Foundations 3 Fine Arts ..... 3
Cultural Diversity Elective ..... 1
Total 17 Total ..... 17
Junior Year
PHYS 330, Atomic Physics ........................ 3 PHYS 340, Nuclear Physics ..... 3
PHYS 331, Atomic Physics Lab 1 PHYS 341, Nuclear Physics Lab ..... 1
PHYS 360, Electromagnetism I 3 PHYS 361, Electromagnetism II ..... 3
Mathematics Elective 3 PHYS 364, Physical Optics ..... 3
Literature Elective 3 PHYS 365, Physical Optics Lab ..... 1
PHIL 290, Theory of Knowledge 3 PHYS, MATH or CSCI Elective * ..... 3
Theology Scrip/Hist or Christ Sys Elective ..... 3
Total 16 Total ..... 17
Senior Year
PHYS 376, Quantum Mechanics I 3 PHYS 377, Quantum Mechanics II ..... 2
PHYS 382, Thermodynamics 3 PHYS 398, Physics Thesis ..... 1
Philosophy Elective 3 Theology Ethics or Rel/Cult Elective ..... 3
Social Science Elective 3 Social Science Elective ..... 3
History I 3 History II ..... 3
E/R\&S Focus Elective 3 ENGL/CLAS 205, Lit \& the Moral Imag ..... 3
Total 18 Total. ..... 15

* Not required, but strongly recommended for those who plan to attend graduate school.


## Scheduling Notes:

- Consult the Undergraduate Core Curriculum description on page 93 of the Catalog.
- The E/R\&S Focus Elective is required, but one of the other Core requirements may be selected to fulfill the requirement.
- A minimum of 127 credit hours is required for the degree.


## REQUIREMENTS FOR THE PHYSICS MINOR

- 18 hours of physics courses: PHYS 160 or $170,161,162$ or 172,163 , and ten hours of electives (206-399).
- A 2.000 cumulative average must be attained in these courses.


## BACHELOR OF SCIENCE DEGREE IN APPLIED PHYSICS

The Applied Physics major has three program options: Engineering Physics, Natural Sciences, and Alternate Concentration. These options are designed to provide a broad education in the physical sciences, mathematics, and liberal arts, along with specialized training for students interested in engineering, medical school, health sciences, education, business, social sciences, or the humanities.

## Requirements for the Applied Physics Major

Option A: Engineering Physics
The Engineering Physics option combines a strong liberal arts core with courses in physics, mathematics, and engineering. Students may take engineering courses at the University of Cincinnati in Aerospace, Civil and Environmental, Electrical and Computer, Mechanical, Industrial, and Nuclear Engineering.

In this program, the student matriculates at Xavier for the first three years and in one of the engineering departments at the University of Cincinnati for the fourth year. This program is designed for students who wish to continue their education in some field of engineering. The cooperative program ultimately can lead to a master's degree in engineering.

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

Core Curriculum Requirements:
Cultural Diversity Elective ......................... 1 History ........................................................ 6
English Composition/Rhetoric ................... 3 Fine Arts.................................................... 3
PHIL 100 and 290 ..................................... 6 Liberal Arts Electives * .9

THEO 111 and Theology elective ............... 6 ENGL/CLAS 205, Lit and \& Moral Imag ... 3
Foreign Language ...................................... 6
MATH 170 and 171 ................................... 8
Ethics/Religion \& Society Focus clective ... 3
(which may also fulfill one of the core curriculum requirements above.)

* May be taken at the University of Cincinnati.

Major Requirements:
Years one to three:

- 34 hours of physics courses: PHYS 170, 171, 172, 242, 243, 244, 245, 330, 331, $340,341,350,351,360,364$, and 365
- 21 hours of additional science and mathematics courses: CHEM 160, 161, 162, 165 ; CSCI elective; MATH 220,230 and a mathematics elective.
- a 2.000 cumulative average must be attained in the courses within the major.

Year four:

- 23 semester hours of engineering courses at the University of Cincinnati. This work is arranged in cooperation with the student, Xavier University, and the University of Cincinnati. The B.S. in Applied Physics will be awarded by Xavier upon successful completion of this program.

B.S. Applied Physics<br>Option A: Engineering Physics

## Xavier University - University of Cincinnati Cooperative <br> Science - Engineering Program

This block serves as a guideline for progress toward a degree. See your academic adviser.

| First Semester Credit Hours | Second Semester Credit Hours |
| :---: | :---: |
| Freshman Year |  |
| PHYS 170, University Physics I ............... 3 | PHYS 172, University Physics II............... 3 |
| PHYS 171, Explorations in Physics ........... 1 | Computer Science Elective ....................... 3 |
| PHIL 100, Ethics as Intro to Philosophy ..... 3 | MATH 171, Calculus I] ........................... 4 |
| Foreign Language Elective ....................... 3 | Foreign Language Elective ....................... 3 |
| MATH 170, Calculus I ........................... 4 | ENGL 101 or 115, Engl Comp or Rhetoric . 3 |
| Total .................................................. 14 | Total .................................................. 16 |
| Sophomore Year |  |
| PHYS 242, Electronics I ......................... 2 | PHYS 244, Electronics II......................... 2 |
| PHYS 243, Electronics I Lab .................... 1 | PHYS 245, Electronics II Lab .................. 1 |
| PHYS 350, Theoretical Mechanics I .......... 3 | PHYS 351, Theoretical Mechanics II ......... 3 |
| MATH 220, Calculus III ......................... 4 | MATH 230, Differential Equations ............ 3 |
| CHEM 160, General Chemistry I .............. 3 | CHEM 162, General Chemistry II ............. 3 |
| CHEM 161, General Chemistry I Lab ........ 1 | CHEM 165, General Chemistry II Lab ........ 1 |
| THEO 111, Theological Foundations ........ 3 | Fine Arts Elective .................................. 3 |
|  | Cultural Diversity Elective ....................... 1 |
| Total .................................................. 17 | Total .................................................. 17 |
| Junior Year |  |
| PHYS 360, Electromagnetism I ................ 3 | PHYS 340, Nuclear Physics ..................... 3 |
| PHYS 330, Atomic Physics ...................... 3 | PHYS 341, Nuclear Physics Lab ............... 1 |
| PHYS 331, Atomic Physics Lab ............... 1 | ENGL/CLAS 205, Lit \& the Moral Imag .... 3 |
| Mathematics Elective .............................. 3 | PHYS 364, Physical Optics ..................... 3 |
| History I............................................... 3 | PHYS 365, Physical Optics Lab ................ 1 |
| PHIL 290, Theory of Knowledge ............... 3 | History II .............................................. 3 |
|  | Theology Scrip/Hist or Christ Sys Elective . 3 |
| Total .................................................. 16 | Total .................................................. 17 |

## Senior Year


#### Abstract

A Bachelor of Science (Applied Physics) will be awarded upon the completion of an additional 9 semester hours of liberal arts courses and 23 semester hours of engineering courses taken at the University of Cincinnati. A senior year "block schedule" at the University of Cincinnati clepends on the individual student's choice of engineering field.


## Scheduling Notes:

- Consult the Undergraduate Core Curriculum description on page 93 of the Catalog.
- The E/R\&S Focus Elective is required, but one of the other Core requirements may be selected to fulfill the requirement.


## Engineering Physics at Xavier

Students who choose the Engineering Physics option may decide to stay at Xavier for their fourth year. They must complete the Xavier Core Curriculum and take 12 hours of program electives beyond the physics requirements listed above. The choice of program electives will depend upon the interests of the student. They must also take PHYS 398, Senior Thesis. Typically, courses are taken in biology, chemistry, computer science, and/or mathematics, but may be taken in other disciplines as well. Specific programs are designed in consultation with the chair.

## B.S. Applied Physics <br> Option A: Engineering Physics <br> Four Year Program at Xavier

This block serves as a guideline for progress toward a degree. See your academic adviser.

| First Semester Credit Hours | Second Semester Credit Hours |
| :---: | :---: |
| Freshman Year |  |
| PHYS 170, University Physics I ............... 3 | PHYS 172, University Physics II ............... 3 |
| PHYS 171, Explorations in Physics ........... 1 | Computer Science Elective ....................... 3 |
| PHIL 100, Ethics as Intro to Philosophy .... 3 | MATH 171, Calculus II ........................... 4 |
| MATH 170, Calculus I ........................... 4 | Foreign Language Elective ...................... 3 |
| Foreign Language Elective ...................... 3 | ENGL 101 or 115, Engl Comp or Rhetoric. 3 |
| Total ................................................. 14 | Total .................................................. 16 |

Sophomore Year

| PHYS 242, Electronics I ........................... 2 | $\mathrm{CF}$ |
| :---: | :---: |
| PHYS 243, Electronics I Lab | CHEM 165, General Chemistry II Lab ........ 1 |
| PHYS 350, Theoretical Mechanic | PHYS 351, Theoretical Mechanics II |
| THEO 111, Theological Foundations | MATH 230, Differential Equations ............ 3 |
| MATH 220, Calculus III | Fine Arts Elective |
| CHEM 160, General Chemistry I | Cultural Diversity Elective |
| CHEM 161, General Chemistry I Lab ......... 1 | PHYS 244, Electronics II ......................... 2 |
|  | PHYS 245, Electronics II Lab .................. 1 |
|  | Tota |


| Junior Year |  |
| :---: | :---: |
| PHYS 360, Electromagnetism I ................ 3 | PHYS 364, Physical Optics ..................... 3 |
| PHYS 330, Atomic Physics ..................... 3 | PHYS 365, Physical Optics Lab ................ 1 |
| PHYS 331, Atomic Physics Lab ............... 1 | Literature Elective .................................. 3 |
| Mathematics Elective ............................. 3 | PHYS 340, Nuclear Physics ..................... 3 |
| Program Electives * ................................. 6 | PHYS 341, Nuclear Physics Lab ................ 1 |
|  | PHIL 290, Theory of Knowledge .............. 3 |
|  | E/R\&S Focus Elective ............................ 3 |
| Total ................................................. 16 | Total.................................................. 17 |
| Senior Year |  |
| Program Elective * | PHYS 398, Physics Thesis ....................... ! |
| Theology Scrip/Hist or Christ Sys Elective 3 | Program Elective * .................................. 3 |
| History I ............................................... 3 | History II .............................................. 3 |
| Social Science Elective ........................... 3 | Social Science Elective ........................... 3 |
| Philosophy Elective ................................ 3 | ENGL/CLAS 205, Lit \& the Moral Imag .... 3 |
|  | Theology Ethics or Rel/Cult Elective ......... 3 |
| Total ................................................. 15 | Total .................................................. 16 |

* Program Elective: Students may choose appropriate courses from physics, chemistry, biology, mathematics, and computer sciences.
Scheduling Notes:
- Consult the Undergraduate Core Curriculum description on page 93 of the Catalog.
- E/R\&S Focus. Elective requirement may be used to satisfy another element of the Core or the major.
- A minimum of 125 credit hours is required for the degree.
Option B: Natural Sciences
The Natural Sciences option offers an alternative to the Natural Sciences major that allows students to study physics while preparing for medical school. This program may also be of interest to students who wish to pursue careers in biophysics, medical physics, radiological physics, and other health physics programs. The Natural Sciences program combines courses in physics, mathematics, and computer science with the chemistry and biology courses needed to fulfill the requirements for the Natural Sciences minor (see page 107).
Core Curriculum Requirements (see page 93): 64 hours, including
- Mathematics: MATH 170 and 171.
- Science requirement included with the major.
- Social Sciences: PSYC 101 and 3 hours elective. Major requirements:
- 32 hours of physics courses: PHYS 170, 171, 172, 242, 243, 244, 245, 330, 331, 340, 341, 350, 360, 364, 365, and 398.
- 7 hours of mathematics and computer science: MATH 220 and $230, \mathrm{CSCl}$ elective.
- 17 hours of chemistry courses: CHEM 160, 161, 162, 163,240,241, 242 and 243.
- 9 hours of biology courses: BJOL 160, 161, 162, 163.
- a 2.000 cumulative average must be attained in courses within the major.

> B.S. Applied Physics
> Option B: Natural Sciences
This block serves as a guideline for progress toward a degree. See your academic adviser.

| First Semester Credit Hours | Second Semester Credit Hours |
| :---: | :---: |
| Freshman Year |  |
| PHYS 170, University Physics I ............... 3 | PHYS 172, University Physics II .............. 3 |
| PHYS 171, Explorations in Physics ............ 1 | ENGL 101 or 115, Engl Comp or Rheroric. 3 |
| BIOL 160, General Biology I .................... 3 | BIOL 162, General Biology II .................. 2 |
| BIOL 161, General Biology I Lab .............. 2 | BIOL 163, General Biology II Lab ............. 2 |
| MATH 170, Calculus I ........................... 4 | MATH 171, Calculus II .......................... 4 |
| THEO 111, Theological Foundations ........ 3 |  |
| Total .................................................. 16 | Total................................................. 14 |
| Sophomore Year |  |
| PHYS 350, Theoretical Mechanics I .......... 3 | PHIL 100, Ethics as Intro to Philosophy ..... 3 |
| PHYS 242, Electronics I ......................... 2 | PHYS 244, Electronics II........................ 2 |
| PHYS 243, Electronics I Lab .................... 1 | PHYS 245, Electronics II Lab .................. 1 |
| MATH 220, Calculus III ......................... 4 | MATH 230, Differential Equations ........... 3 |
| CHEM 160, General Chemistry I .............. 3 | CHEM 162, General Chemistry II ............. 3 |
| CHEM 161, General Chemistry I Lab ........ 1 | CHEM 163, General Chemistry II Lab ....... 2 |
| Foreign Language Elective ....................... 3 | Foreign Language Elective ...................... 3 |
| Cultural Diversity Elective ....................... 1 |  |
| Total .................................................. 18 | Total.................................................. 17 |

# B.S. Applied Physics Option B: Natural Sciences, continued 

| Junior Year |  |
| :---: | :---: |
| PHYS 330 Atomi Physic | PHYS 340, Nuclear Phys |
| PHYS 331, Atomic Physics Lab | PHYS 341, Nuclear Physics Lab ............... 1 |
| CHEM 240, Organic Chemistry 1 | CHEM 242, Organic Chemistry II ............. 3 |
| CHEM 241, Organic Chemistry I Lab | CHEM 243, Organic Chemistry II Lab ........ 1 |
| Computer Science Elective | Literature Elective .................................. 3 |
| Fine Arts Elective .................................. 3 | PHIL 290, Theory of Knowledge .............. 3 |
|  | E/R\&S Focus Elective ............................ 3 |
| Total .................................................. 14 | Total................................................. 17 |
| Senior Year |  |
| PHYS 360, Electromagnetism I ................ 3 PHYS 398, Physics Thesis ... |  |
| History | PHYS 364, Physical Optics ..................... 3 |
| PSYC 101, General Psychology ................ 3 | PHYS 365, Physical Optics Lab ................ 1 |
| Theology Scrip/Hist or Christ Sys Elective 3 | Theology Ethics or Rel/Cult Elective ......... 3 |
| Philosophy Elective ............................... 3 | Social Science Elective ........................... 3 |
|  | ENGL/CLAS 205, Lit \& the Moral Imag .... 3 |
|  | History II ............................................. 3 |
| Total ................................................ 15 | Total................................................. 17 |
| Scheduling Notes: |  |
| - Consult the Undergraduate Core Curriculum description on page 93 of the Catalog. <br> - The E/R\&S Focus Elective is required, but one of the other Core requirements may be selected to fulfill the requirement. <br> - A minimum of 125 credit hours is required for the degree. |  |
| Option C: Alternate Concentration |  |
| The Alternate Concentration option provides maximum flexibility to students who are |  |
| hours in one chosen area, which allows for all University minors to be included. Areas of concentration may be chosen from the sciences, mathematics, the humanities, the social sciences, business, and education. |  |
| Core Curriculum Requirements (see page 93): <br> - Mathematics: MATH 170 and 171 <br> - Science requirement included within the | 4 hours, including e major. |
| Major Requirements: |  |
| 35 hours of physics courses: PHYS 170, 171, 172, 242, 243, 244, 245, 330, 331, 340, 341, 350, 351, 360, 364, 365, and 398. <br> 10 hours of additional mathematics and computer science: MATH 220 and 230, CSCl elective. |  |
| 24 hours in an alternate concentration (at least 18 hours in one area). If the concentration is not a science area, then 3 hours of a second science can be included to complete the core. <br> a 2.000 cumulative average must be attained in courses within the major. |  |

## B.S. Applied Physics <br> Option C: Alternate Concentration

This block serves as a guideline for progress toward a degree. See your academic adviser.
First Semester Credit Hours Second Semester Credit Hours

| Freshman Year |  |
| :---: | :---: |
| PHYS 170, University Physics I ............... 3 | PHYS 172, University Physics II............... 3 |
| PHYS 171, Explorations in Physics ........... 1 | Computer Science Elective ....................... 3 |
| PHIL 100, Ethics as Intro to Philosophy ..... 3 | ENGL 101 or 115, Engl Comp or Rhetoric . 3 |
| MATH 170, Calculus I ........................... 4 | MATH 171, Calculus II ........................... 4 |
| Foreign Language Elective ....................... 3 | Foreign Language Elective ....................... 3 |
| Total .................................................. 14 | Total.................................................. 16 |
| Sophomore Year |  |
| PHYS 242, Electronics I ......................... 2 | PHYS 244, Electronics II ......................... 2 |
| PHYS 243, Electronics I Lab .................... | PHYS 245, Electronics II Lab .................. 1 |
| PHYS 350, Theoretical Mechanics I .......... 3 | PHYS 351, Theoretical Mechanics II ......... 3 |
| MATH 220, Calculus III ......................... 4 | MATH 230, Differential Equations ............ 3 |
| Social Science Elective ........................... 3 | THEO 111, Theological Foundations ......... 3 |
| Program Elective * ................................. 3 | Social Science Elective ............................ 3 |
|  | Cultural Diversity Elective ....................... 1 |
| Total .................................................. 16 | Total .................................................. 16 |
| Junior Year |  |
| PHYS 360, Electromagnetism I ................ 3 | PHYS 340, Nuclear Physics ..................... 3 |
| PHIL 290, Theory of Knowledge ............... 3 | PHYS 341, Nuclear Physics Lab ............... 1 |
| PHYS 330, Atomic Physics ...................... 3 | Literature Elective .................................. 3 |
| PHYS 331, Atomic Physics Lab ............... 1 | Program Electives * ................................ 6 |
| Program Elective * ................................. 3 | Fine Art Elective .................................... 3 |
| Program Elective ** ............................... 3 |  |
| Total ................................................. 16 | Total .................................................. 16 |

## Senior Year

ENGL/CLAS 205, Lit \& the Moral Imag ... 3 PHYS 364, Physical Optics ........................ 3
History I 3 PHYS 365, Physical Optics Lab ..... 1
Philosophy Elective 3 PHYS 398, Physics Thesis ..... 1
Program Elective * 3 History II ..... 3
Theology Scrip/Hist or Christ Sys Elective 3 Program Electives * ..... 6
E/R\&S Focus Elective 3 Theology Ethics or Rel/Cult Elective ..... 3
Total 18 Total ..... 17

* Program clectives will depend on the student's choice of concentration. Specific block schedules are determined in consultation with the chair.
${ }^{* *}$ If the concentration is in a non-science area, then three credit hours in a second science should be taken in place of the program elective.


## Scheduling Notes:

- Consult the Undergraduate Core Curriculum description on page 93 of the Catalog.
- The E/R\&S Focus Elective is required, but one of the other Core requirements may be selected to fulfill the requirement.
- A minimum of 126 credit hours is required for this degree.


## THE DEPARTMENT OF THEOLOGY

The Department of Theology offers the Bachelor of Arts, the Associate 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 (CAPS). Also offered is a minor in Theology.

## FACULTY

Faculty: DR. HILL, chair; DR. AHLGREN, FR. BRACKEN, FR. CARTER, DR. DEWEY, DR. GIBLIN, DR. GOLLAR, SR. GRAF, FR. KLEIN, DR. KNITTER, DR. MADGES, FR. OVERBERG, FR. TRAUB

Adjunct Faculty: RABBI BLUESTEIN, FR. BOKENKOTTER, MS. BOLTZ, SR. BROSNAN, MR. CHOQUETTE, MS. CROSSET, MS. FREY, MR. GABLE, REV. GARTIG, RABBI KAMRASS, REV. KOSTOFF, MS, MUETHING, FR. O'DONNELL, DR. RAPP, MR. SAUERBREY, FR. URMSTON

Staff. SR. MILLER

## THE BACHELOR OF ARTS DEGREE IN THEOLOGY

Theology is the study both of the human experience of God and of the transmission of that experience through religious traditions, doctrines, ethics, and rituals. It is essentially a dialogue between religious traditions and human experience. Such dialogue is critical for human understanding in a time of increased encounters among world religions.

The theology faculty attempts to assist students in this critical dialogue through courses about religious traditions, especially the Jewish and Christian traditions, and by other courses that focus on contemporary issues from a theological perspective.

The theology major prepares students for graduate studies in theology, law, history, journalism, and other forms of communication, as well as for directing religious education, teaching religious studies in secondary schools, and other forms of ministry. With appropriate counseling, a student can combine this major in the liberal arts with a major in another field (e.g. classics, English, history, psychology, secondary education), both for the student's personal enrichment and in view of broader career opportunities.

## Requirements for the Theology Major

Core Curriculum Requirements (see page 93): 64 hours, including

- Theology requirement included within the major.

Major Requirements

- 36 hours of theology courses: THEO 111, 209, 210, 250, 290, 303, 390, scripture elective, non-Christian religious traditions elective, three elective courses (201499).
- A research paper on which the student will be examined by a faculty committee.
- A 2.000 cumulative average must be attained in the theology courses.
B.A. TheologyThis block serves as a guideline for progress toward a degree. See your academic adviser.
First Semester Credit Hours Second Semester Credit Hours
Freshman Year
ENGL 101 or 115, Engl Comp or Rhetoric. 3
Foreign Language Elective ......................... 3
History I ..... 3
Science Elective 3 PHIL 100, Ethics as Intro to Philosophy ..... 3
THEO 111, Theological Foundations 3 Literature Elective ..... 3
Total ..... 15
Foreign Language Elective ..... 3
History II ..... 3
Total ..... 15

| B.A. Theology, continued <br> Credit Hours |  |  |  | Second Semester |
| :--- | :--- | :--- | :---: | :---: |$\quad$ Credir Hours

* Special section for Theology majors.
**Theology majors have 26 hours of general electives; it is recommended that these be chosen in one area as a second concentration, rather than a wide dispersal of courses.

Scheduling Notes:

- Consult the Undergraduate Core Curriculum description on page 93 of the Catalog.
- E/R\&S Focus Elective requirement may be used to satisfy another element of the Core.
- A minimum of 120 credit hours is required for this degree.


## REQUIREMENTS FOR THE THEOLOGY MINOR

- 18 hours of theology courses: THEO 111, THEO 209 or 210, 250, 303, and two electives from 201-499. The core curriculum theology requirement is included in the minor.
- A 2.000 cumulative average must be attained in these courses.


## REQUIREMENTS FOR THE ASSOCIATE OF ARTS DEGREE IN THEOLOGY

Core Curriculum Requirements (see page 95): 28 hours, including

- Theology requirement included within the concentration.

Concentration Requirements:

- 18 hours of theology courses: THEO 111, THEO 209 or 210, 250, 303 and two upper division electives.
- A 2.000 cumulative average must be attained in the theology courses.


## THE MASTER OF ARTS DEGREE IN THEOLOGY

The Master of Arts degree in Theology is designed especially for those professionally involved in teaching or in directing programs of religious education and for those wishing to further develop previous theological understanding.

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 have a bachelor's degree from a regionally accredited institution with an undergraduate GPA of 2.700 or better. In addition, all applicants must complete the Miller Analogies Test prior to acceptance and obtain a score of 44 or higher.

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.
Required courses:

- THEO 502, Christian Tradition and the Task of Understanding
- THEO 504 - Foundations of Scripture Study
- THEO 506 - Foundational Issues in Ethics
- THEO 520 - Survey of Christian Doctrine
- Six graduate-level theology courses.

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 coursework. The thesis will be read by its director and two additional readers, and it must be defended in a final oral examination. Students who do not write a thesis will be required to submit a research paper demonstrating their mastery of research skills and their ability to synthesize key themes from their coursework into a coherent theological position. Students will be examined on this paper by a faculty committee.

The M.A. program in Theology invites applications from students with a bachelor's degree and a solid academic record. Admission decisions are based on factors such as past academic performance, standardized test score, and other information submitted.

Further information and application materials may be obtained from the Office of Graduate Services, 312 Elet Hall, (513) 745-3360.

## SPECIAL COLLEGE PROGRAMS

## BACHELOR OF LIBERAL ARTS DEGREE

The Bachelor of Liberal Arts is designed for adult transfer students who are interested in taking courses in new disciplines. The general electives and upper division studies requirements allow for efficient transferability of credits and give students the opportunity to design degrees to meet their needs. This degree is offered by the College of Arts and Sciences through the Center for Adult and Part-time Students (CAPS) and is only available to students who have graduated from high school not less than four years prior to the date of acceptance into the program.

The Liberal Arts degree is available through full or part-time study, days and/or evenings, or through the special accelerated Weekend Degree Program.

## Requirements for the Bachelor of Liberal Arts

Core Curriculum Requirements (see page 93): 64 hours
Upper Division Studies Requirement:

- 38 hours of upper division work, with no more than 21 hours from one subject area.
- It is recommended that these 38 hours be distributed across two academic areas.
- The following concentrations are available through the Weekend Degree Program: Business Administration, Organizational Leadership, and Professional Communications
- No more than 30 hours in business courses and no more than 12 hours in any one business subject area may be applied to the degree.
- A minimum of 120 credit hours is required for the degree.


## ASSOCIATE OF ARTS DEGREE IN LIBERAL ARTS

This 60 hour program is designed for adult students who are interested in taking courses in several disciplines. The upper division studies requirement allows students to design their degrees through flexibility in course selection. This degree is offered by the College of Arts and Sciences through the Center for Adult and Part-time Students (CAPS) and is available to students who have graduated from high school not less than two years prior to the date of acceptance into the program.

## Requirements for the Associate of Arts in Liberal Arts

- Core Curriculum Requirements (see page 95): 31 hours.
- Upper Division Studies Requirement: 20 hours of upper division coursework.
- General electives: 12 hours.
- A minimum of 60 credit hours is required for the degree.


## PRE-MORTUARY SCIENCE CURRICULUM

The Pre-Mortuary Science curriculum is administered by the department of chemistry. 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 (CCMS). The program consists of two years at Xavier followed by five academic quarters at the CCMS.

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 61-hour program are:
Required Courses - 21 hours
ENGL 101, SOCI 101, PSYC 101, COMM 101, ECON 200 and 201, MKTG 300
Elective Courses - 40 hours
6 credit hours of history ( 100 -level) 6 credit hours of fine arts
6 credit hours of biology 6 credit hours of mathematics 6 credit hours of literature 6 credit hours of general electives 3 credit hours of theology/philosophy 1 credit hour of cultural diversity Contact the department of chemistry for more information, (513) 745-2063.

Pre-Mortuary Science
This block serves as a guideline for progress in the program. See your academic adviser.
First Semester Credit Hours Second Semester Credit Howrs

## Freshman Year

| History I Elective..................................... 3 | History II Elective ..................................... 3 |
| :---: | :---: |
| ENGL 101, English Composition .............. 3 | Literature ................................................. 3 |
| Biology ................................................. 3 | Biology ................................................... 3 |
| Mathematics Elective (MATH 105-180) * . 3 | Mathematics Elective (MATH 105-180) * .. 3 |
| SOCI 101, Intro to Sociology ................... 3 | PSYC 10I, General Psychology ................ 3 |
| Total ..................................................... 15 | Total...................................................... 15 |
| Sophomore Year |  |
| Literature ............................................... 3 | COMM 101, Oral Communication ............ 3 |
| Fine Arts ................................................ 3 | Fine Arts................................................. 3 |
| ECON 200, Microeconomic Principles ...... 3 | ECON 201, Macroeconomic Principles ....... 3 |
| Theology/Philosophy ............................... 3 | MKTG 300, Principles of Marketing .......... 3 |
| General Elective ..................................... 3 | General Elective ...................................... 3 |
| Cultural Diversity Elective ....................... 1 |  |
| Total .................................................... 16 | Total ...................................................... 15 |

[^2]

# COLLEGE OF BUSINESS <br> <br> ADMINISTRATION 

 <br> <br> ADMINISTRATION}

## (CBA) Degrees, Programs and Block Schedules

The mission of the College of Business Administration is to educate students within an Ignatian framework to become manager-leaders who fully utilize their skills and presence to continuously improve their organizations and the global society in which they live.

Staff: Dr. Michael Webb, Dean; Dr. James Brodzinski, Associate Dean-Graduate and Executive Programs; Mr. Dallas Lower, Director - MBA Admissions and Enrollment Services; Ms. Cynthia Stockwell, Director - Undergraduate Program and International Field Experiences; Dr. Daniel Geeding, Director of Center for International Business.

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## BACHELOR OF SCIENCE IN BUSINESS ADMINISTRATION DEGREE (BSBA)

The Bachelor of Science in Business Administration (BSBA) is offered in the following majors: Accounting, Economics, Entrepreneurial Studies, Finance, General Business, Human Resources, Information Systems, Management, and Marketing.

Also offered are a minor in Business Administration, an Associate degree in Business, a Certificate in Pre-MBA Studies, a Master's in Business Administration and an Executive MBA program. Students in the College of Business Administration also have the opportunity to participate in a Cooperative Education Program and/or study abroad.

The BSBA provides the student with broad preparation in the field of business administration together with an intensive study in the chosen major. Additionally, the degree integrates the concept of a liberal education, since the student in the College of Business Administration also fulfilis the University core curriculum. At least half of the business courses required for a BSBA must be taken at Xavier. The BSBA consists of:

University Core Curriculum (see page 93), 64 hours, including

- Mathematics: MATH 150, Calculus, and MATH 156, General Statistics
- Social sciences: ECON 200, Microeconomics, and ECON 201, Macroeconomics

Business Core Requirements: 35 hours. A 2.000 grade point average must be attained in the business core and ECON 200 and 201.
Course No. Subject Credit Hours
ACCT 200 Introductory Financial Accounting ..... 3
ACCT 201 Introductory Managerial Accounting ..... 3
HRES 200 Human Resources in a Diverse Society ..... 3
(Fulfills Cultural Diversity requirement)
MGMT 201 Quality and Productivity in Operations ..... 3
STAT 200 Intermediate Business Statistics ..... 3
FINC 300 Business Finance ..... 3
BLAW 300 Legal Environment ..... 3
ECON 300 International Trade \& Business Environment ..... 3
MKTG 300 Principles of Marketing ..... 3
MGMT 300 Managerial Behavior ..... 3
INFO 301 Management of Information Technology ..... 3
MGMT 301 Managerial Communication ..... 2

Major: 18 hours, except accounting, which is 21 hours. See succeeding pages for specific major requirements.
Electives:

- 3 hours of business courses
- 3 hours general electives (except for Accounting majors)

NOTE: Business course credit received ten or more years ago will not be accepted as transfer credit or readmit credit toward current requirements.

## REQUIREMENTS FOR THE MINOR IN BUSINESS ADMINISTRATION

- 20-21 hours of business courses designed to offer the non-business major an introduction to business: ACCT 200, ECON 200, FINC 300, INFO 301, MKTG 300, MGMT 300, are required.
- 2-3 hours of business elective are also required for the minor (All prerequisites for elective courses must be met).
- A 2.000 cumulative average must be attained in these courses.


## ASSOCIATE OF BUSINESS ADMINISTRATION DEGREE

The Associate Degree in Business requires 65 semester hours. The student must complete at least 30 hours at Xavier University, including at least 15 hours of required business courses. The program is divided between general University core requirements and business courses. This associate degree is intended as a stepping stone toward the bachelor's degree.Requirements for the Associate Degree in Business AdministrationUniversity Core Requirements: 30 hours
English Composition or Rhetoric ... 3 History (1st level) ..... 3
Fine Arts 3 Literature ..... 3
Ethics as Intro, to Philosophy 3 Introduction to Theology ..... 3
Calculus 3 PHIL 290 or Theology elective ..... 3
General Statistics 3 Science Elective ..... 3
Business Courses: 35 hours
Course No. Subject Credit Hours
ACCT 200 Introductory Financial Accounting ..... 3
ACCT 201 Introductory Managerial Accounting ..... 3
BLAW 300 Legal Environment ..... 3
ECON 200 Microeconomics ..... 3
ECON 201 Macroeconomics ..... 3
HRES 200 Human Resources Society ..... 3
(fulfills Cultural Diversity Elective)
INFO 301 Management of Information Technology ..... 3
MGMT 300 Managerial Behavior ..... 3
MKTG 300 Principles of Marketing ..... 3
MGMT 201 Quality and Productivity in Operations ..... 3
MGMT 301 Managerial Communication ..... 2
FINC 300 Business Finance ..... 3

- A 2.000 cumulative average must be attained in the business courses.


## CERTIFICATE IN PRE-MBA STUDIES

This certificate program satisfies the foundation courses required for admittance into Xavier's MBA program. Students completing the certificate also earn a minor in Business Administration. Students applying for the MBA program must have completed all certificate courses within the previous 7 years and attained a " C " or above in each course, with the exception of FINC 300 (5 years, "B").

## Requirements for Certificate in Pre-MBA Studies

Certificate is 27 hours. Required courses include ACCT 200, ACCT 201, ECON 200, ECON 201, INFO 301, STAT 200, FINC 300, MGMT 300, MKTG 300.

A 2.000 cumulative average must be attained in these courses.

## COOPERATIVE EDUCATION (CO-OP) PROGRAM

The College of Business Administration offers Cooperative Education (Co-op) opportunities to qualified students. Cooperative Education is a structured educational program which integrates classroom learning and practical experience. Work experiences relate to students' majors and allow them to develop their professional as well as academic skills. Co-op opportunitics are employer paid and involve faculty participation and evaluation. Students registered for any Coop class will be considered full-time.

Interested students should contact the Co-op director, CBA Office, 3800 Viciory Parkway. Cincinnati, Ohio 45207-3230, 513 745-4869, for further details or to apply for the program.

Co-op eligibility requirements:

- Students must be considered full-time.
- Students must have completed 55 credit hours, with at least 15 credit hours completed at Xavier.
- Students must have a cumulative grade point average of 2.750 or better.
- Students must have completed MGMT 301, Managerial Communications.


## MASTER OF BUSINESS ADMINISTRATION DEGREE

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, up-to-date 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 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 Office at (513) 745-3525 or email xumba@admin.xu.edu.

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. MBA students must abide by any additional regulations contained in the MBA Program Bulletin.

Xavier participates in a unique partnership with a number of other accredited universities' MBA programs. Most are located in major metropolitan areas. Under the terms of the partnership, each institution accepts all coursework completed toward an MBA degree at another participating institution, provided that coursework is comparable to the coursework required by the receiving institution. Each course transferring must carry a grade of "B" or better. The MBA is awarded by the institution where more than half of the core degree requirements were completed.

From all other institutions, a maximum of six hours of transfer credit for upper level and elective courses may be accepted toward the MBA degree. All transferred coursework must be approved by the Director of Admissions for the MBA Program or the Associate Dean and carry a grade of "B" or better. Graduate courses already applied towards a degree may not be used again for credit toward MBA degree. The grade and quality points for credits transferred from another institution are not included in a student's point average.

Participating institutions include the following:

Boston College, Boston MA<br>Canisius College, Buffalo, NY<br>Gonzaga University, Spokane, WA<br>John Carroll University, Cleveland OH<br>Loyola College in Maryland, Baltimore MD<br>Loyola Marymount Univ., Los Angeles CA<br>Loyola University Chicago, Chicago IL<br>Loyola Univ. New Orleans, New Orleans LA<br>Marquette University, Milwaukee WI

Santa Clara University, Santa Clara CA
St. Louis University, St. Louis MO
University of Dayton, Dayton OH
University of Detroit Mercy, Detroit MI
University of Portland, Portland OR
University of San Diego, San Diego CA
Univ. of San Francisco, San Francisco CA
University of Scranton, Scranton NY

## MBA Requirements

Courses

Credit Hours
Courses
Credit Hours

## Foundation Skills:

ACCT 801, Accounting Concepts 1.5
STAT 801, Managerial Statistics ............ 3

ACCT 802, Acct. Analysis of Organ ...... 1.5
ECON 801, Macroeconomics ................. 2
FINC 801, Corporate Finance ................... 3
ECON 802, Microeconomics ................. 2
MKTG 801, Marketing Concepts .............. 2
All of these courses may be waived depending upon the student's previous academic and professional credentials.
Business and Systems Skills:
MGMT 901, Managing Organ Systems ..... 2 ECON 901, Global Economic Envir ..... 2
MGMT 902, Interpersonal Skills ..... 2 Improvement Teams ..... 2
MGMT 903, Managing Process
MGMT 903, Managing Process

These courses begin the building program by introducing business systems models, the language of global business and total quality management principles, as well as providing interpersonal, written and presentation skills development..

## Integrated Functions:

ACCT 901, Acet Anal for Mgmt Dec ........ 3 HRES 901, Intro to Human Resources .. 2
$\begin{array}{ll}\text { FINC 901, Managerial Finance ................. } 3 & \text { MGMT 904, Systems of Operations ... } 1.5 \\ \text { MKTG 901, Marketing Strategy ............ } 3 & \text { INFO 901, Information Systems ....... } 1.5\end{array}$
MKTG 901, Marketing Strategy ............... 3 INFO 901, Information Systems ......... 1.5
These specific topics emphasize the integration of skills applied to complex business decisions.

## Matrix Courses: <br> BUAD 903, Strategic Thinking <br> 2 BUAD 902, Global Bus Strategy 2

Executive speakers and real-world situations will cause the student to apply knowledge of organizational systems to arrive at effective solutions to multi-faceted business challenges.

Electives \& Areas of Concentration; credit hours required
Applied Business Economics .................... 8 Quality Improvement ............................ 9
Finance .................................................. 12 Marketing .......................................... 12
Human Resources ................................... 12 Taxation ............................................. 12
International Business ............................... 9 General Business ..................................... 8
Management Information Systems ............ 8 Entrepreneurship................................ 12
Students may tailor electives in the field(s) of their choice to provide a broader understanding of the business world or to specialize their degree. Electives may be taken anytime. Anyone with an MBA from an aceredited school may return for a later concentration certificate program (8 elective credit hours minimum). The minimum requirement is 36 credit hours beyond the foundation skills with a 3.000 GPA .

## EXECUTIVE MBA PROGRAM

The Executive MBA Program provides the opportunity for experienced managers and executives to sharpen their managerial skills and broaden their perspectives while maintaining their current positions in their organizations. The ultimate objective of the program is to prepare participants for increasing responsibilities in general management and executive positions. This is aecomplished through a learning process which expands their awareness of modern analytical, administrative and decision making methods. This 48 credit hour 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.

A program run separately from Xavier's traditional MBA Program, the Executive MBA Program commences once a year in late October and runs for 19 months. Classes are concentrated into one day per week, alternating between Fridays and Saturdays. Admission is based on undergraduate records, GMAT scores, business experience and evidence of strong organizational support.

Information regarding the Executive MBA Program may be obtained from the Associate Dean of Graduate and Executive Programs at (513) 745-3412.

## THE DEPARTMENT OF ACCOUNTING AND INFORMATION SYSTEMS

The Department of Accounting and Information Systems offers the Bachelor of Science in Business Administration degree in Accounting and in Information Systems, a minor in Information Technology, and a certificate in Information Technology. Also, it offers a Professional Accountancy Program to meet the law that will be in effect in most states, including Ohio, by the year 2000 that requires candidates to complete 150 semester credit hours of college coursework prior to sitting for the CPA examination.

## FACULTY

Faculty: PROF. VANDERBECK, chair; DR. CRABLE, Coordinator of Information Systems; PROF. ALLEN; DR. BRAUN; DR. COONEY; DR, DEVINE; PROF. FIORELLI; DR. JOHNSON; DR. O'CLOCK; DR. ROONEY; PROF. SMITH; DR. SURDICK

Adjunct Faculty: MR. HUHN, MR. SCHUTZMAN, DR. THIERAUF

## BACHELOR OF SCIENCE IN BUSINESS ADMINISTRATION DEGREE IN ACCOUNTING

The B.S.B.A. in Accounting is a four-year program that may be a terminal degree for students not interested in pursuing the CPA certificate, as well as a step toward fulfilling the 150 -hour requirement for CPA candidates. An elective Co-op experience is available to either category of student.

Requirements for the B.S.B.A. Accounting Major<br>Core Curriculum Requirements (see page 93): 64 hours, including<br>- Mathematics: MATH 150, Calculus, and MATH 156, General Statistics<br>- Social science: ECON 200, Microeconomics, and ECON 201, Macroeconomics Business Core Requirements (see page 150): 35 hours<br>Major Requirements<br>- 21 hours of accounting courses above the business core: ACCT 300, 301, 311, 321, 421, 431, 495.<br>- A 2.000 average must be attained in the accounting courses.<br>- Any courses taken at another institution must be approved by the department. Electives:<br>- 3 hours of business electives.

## THE PROFESSIONAL ACCOUNTANCY PROGRAM

This is a five-year program that enables a student to earn a B.S.B.A. in Accounting and an M.B.A. with a concentration in Accounting or Taxation while satisfying the 150 -hour requirement for the CPA exam. Students are allowed to seek admission to the M.B.A. program at the end of their junior year. Those accepted may use three credit hours of undergraduate electives for M.B.A. courses and obtain a waiver for ACCT 901.

## Requirements:

- Same as above requirements for B.S.B.A. in Accounting except for three hours of undergraduate electives that may be used for M.B.A. business skills courses.
- Same as requirements for all M.B.A. students except for waiver of ACCT 901.
- Nine credit hours of graduate electives in accounting, which may include one graduate tax course beyond ACCT 902 or nine credit hours of graduate electives in Taxation beyond ACCT 902.
B.S.B.A. AccountingThis block serves as a guideline for progress toward a degree. See your academic adviser.

| First Semester Credit Hours | Second Semester Credit Hours |
| :---: | :---: |
| Freshman Year |  |
| MATH 150, Calculus ............................. 3 | MATH 156, General Statistics ................... 3 |
| History 1............................................... 3 | History II ............................................. 3 |
| ENGL 10 L or 115. Eng Comp or Rhetoric .. 3 | ECON 200, Microeconomics ..................... 3 |
| Foreign Language Elective ...................... 3 | Foreign Language Elective ...................... 3 |
| INFO 301, Managing Info Technology ...... 3 | MKTG 300, Principles of Marketing .......... 3 |
| Total ................................................. 15 | Total................................................. 15 |

Sophomore Year

| ECON 201, Macroeconomics ................... 3 | Literature Elective .................................... 3 |
| :---: | :---: |
| ACCT 200, Financial Accounting .............. 3 | ACCT 201, Managerial Accounting .......... 3 |
| THEO 111, Theological Foundations ........ 3 | PHIL 100, Ethics as Intro to Philosophy ..... 3 |
| HRES 200, HR in a Diverse Society * ....... 3 | MGMT 300, Managerial Behavior ............ 3 |
| Science Elective ..................................... 3 | FINC 300, Business Finance ..................... 3 |
| Total .................................................... 15 | Total ..................................................... 15 |

## Junior Year

Theology Scrip/Hist or Christ Sys Elective 3 PHIL 290, Theory of Knowledge ..... 3
STAT 200, Intermediate Business Stats...... 3 Science Elective ..... 3
Science Elective 3 ACCT 301, Intermediate Financial Accl. II.
ACCT 300, Intermediate Financial Acct. I 3 ACCT 321, Cost Accounting ..... 3
MGMT 301, Managerial Communications . 2 MGMT 201, Quality \& Prod in Operations .....  3
ACCT 311, Intro to Taxation 3 Fine Arts Elective ..... 3
Total 17 Total ..... 18
Senior Year
Theology Ethics or Rel/Cult Elective 3 Philosophy Elective .....  3
BLAW 300, Legal Environment 3 ACCT 495, Analysis of Acct. Systems ..... 3
ACCT 421, Auditing 3 ECON 300, Int'l Trade \& Business ..... 3
ACCT 431, Advanced Financial Acct 3 E/R\&S Focus Elective ..... 3
ENGL/CLAS 205, Lit \& the Moral Imag 3 Business Elective ..... 3
Total 15 Total ..... 15

* HRES 200 fulfills the Cultural Diversity Elective.
Scheduling Notes:- Consult the Undergraduate Core Curriculum description on page 93 of the Catalog.- E/R\&S Focus Elective requirement may be used to satisfy another element of theCore or the major.

Note: If $E / R \& S$ Focus Elective is double counted, program is 122 credit hours.
Freshman Year ..... 30
Sophomore Year ..... 30
Junior Year ..... 35
Senior Year ..... $\underline{30}$
Total Hours ..... 125

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

The objectives of the Information Systems 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 major is conducive to a double major or as a minor to another major in the University.

## Requirements for the Information Systems Major

Core Curriculum Requirements (see page 93): 64 hours, including

- Mathematics: MATH 150, Calculus, and MATH 156, General Statistics
- Social science: ECON 200, Microeconomics, and ECON 201, Macroeconomics Business Core Requirements (see page 162): 35 hours Major Requirements
- 18 hours of information systems courses: INFO 350,358, 362,450, 495 and 3 hours of electives. INFO 495 is the integrative course for the major.
A 2.000 average must be attained in the information systems courses.
Electives:
- 3 hours of business electives.
- 3 hours of general electives.


## B.S.B.A. Information Systems

This block serves as a guideline for progress toward a degree. See your academic adviser.
First Semester Credit Hours Second Semester Credit Hours

## Freshman Year

| MATH 150, Calculus ........................................................ 3 | MATH 156, General Statistics .................................................................................................................................................................................................................. 3 |
| :--- | :--- |

## Sophomore Year

ECON 201, Macroeconomics 3 Literature Elective ..... 3
ACCT 200, Financial Accounting 3 ACCT 201, Managerial Accounting ..... 3
THEO 111, Theological Foundations 3 PHIL 100, Ethics as Intro to Philosophy ..... 3
HRES 200, HR in a Diverse Society * 3 MGMT 300, Managerial Behavior ..... 3
Science Elective 3 STAT 200, Intermediate Business Stats ..... 3
Total 15 Total ..... 15

## Junior Year

| ogy Scrip/Hist or Christ Sys Elective 3 | PHIL 290, Theory of Knowledge |
| :---: | :---: |
| FJNC 300, Business Finance .................... 3 | Science Elective |
| Science Elective ..................................... 3 | [NFO 358, Data Modeling and Management 3 |
| INFO 350, Intro to Structured Programming 3 | BLAW 300, Legal Environment ................ 3 |
| MGMT 301, Managerial Communications . 2 | MGMT 201, Quality \& Prod in Operations. 3 |
| ENGL/CLAS 205, Lit \& the Moral [mag ... 3 | INFO 362, Prgm for Modern Bus App ....... 3 |
| Total ...................................................... 17 | Total ...................................................... 18 |

## Senior Year

| Theology Ethics or Rel/Cult Elective ......... 3 | Philosophy Elective |
| :---: | :---: |
| ECON 300. Int'l Trade \& Business ............ 3 | [NFO 495, System Development Project .... 3 |
| INFO 450, Systems Analysis \& Design ...... 3 | Fine Arts Elective .................................... 3 |
| Info Systems Elective ............................... 3 | E/R\&S Focus Elective |
| Business Elective .................................... 3 | General Elective ....................................... 3 |
| Total .................................................... 15 | Total..................................................... 15 |

* HRES 200 fulfills the Cultural Diversity Elective.

Scheduling Notes:

- Consult the Undergraduate Core Curriculum description on page 93 of the Catalog.
- E/R\&S Focus Elective requirement may be used to satisfy another element of the Core or the major.

Note: If E/R\&S Focus Elective is double counted, program is 122 credit hours.
Freshman Year ..... 30
Sophomore Year ..... 30
Junior Year ..... 35
Senior Year ..... 30
Total Hours ..... 125
REQUIREMENTS FOR INFORMATION TECHNOLOGY (IT) MINOR

- 15 credit hours
- Required courses: INFO 301 (or INFO 100 and 300); INFO 358 and INFO 359
- Elective courses: 6 hours (two information systems electives)
- A 2.000 cumulative average must be attained in these courses.
REQUIREMENTS FOR CERTIFICATE IN INFORMATION TECHNOLOGY (IT)
- A certificate in Information Technology is designed for students who are not pursuing a degree, but wish to continue their education in information systems.
- Requirements are identical to those of the IT Minor: 15 credit hours, including INFO 301 or its equivalent, 358,359 and 6 hours of information systems electives. A 2.000 cumulative average must be attained in these courses.


## THE DEPARTMENT OF ECONOMICS AND HUMAN RESOURCES

The Department of Economics and Human Resources offers the Bachelor of Science in Business Administration degree in Economics and in Human Resources as well as a minor in Economics. The Department also offers a Bachelor of Arts in Economics degree through the College of Social Sciences (see page 191).

## FACULTY

Faculty: DR. ZIMMERMAN, chair; DR. ABU-RASHED, DR. BERTAUX, DR. BLACKWELL, DR. COBB, DR. MARMO, DR. RANKIN, DR. WEINBERG, DR. WILSON Senior Fellow: DR. DONNELLY

## BACHELOR OF SCIENCE IN BUSINESS ADMINISTRATION DEGREE 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. Economics 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 many of the functional areas of business. It is also excellent training for graduate study in business, in law, and in economics itself.

## Requirements for the Economics Major

Core Curriculum Requirements (see page 93): 64 hours, including

- Mathematics: MATH 150, Calculus, and MATH 156, General Statistics
- Social sciences: ECON 200, Microeconomics, and ECON 201, Macroeconomics Business Core Requirements (see page 162): 35 hours.
Major Requirements: 18 hours
- 18 hours of economics courses above the business core: ECON 305, 306, 495, 9 hours of economics electives, at least 3 hours of which must be at the $400-\mathrm{level}$.
- One human resources course other than HRES 330 or 499 may be substituted for one 300 level economics elective, with written permission from the chair.
- A 2.000 cumulative average must be attained in the economics courses. Electives:
- 3 hours of business electives.
- 3 hours of general electives.

| B.S.B.A. <br> This block serves as a guideline for progress tow | conomics ${ }_{\text {ard a degree. See your academic adviser. }}$ |
| :---: | :---: |
| First Semester Credir Hours | Second Semester Credit Hours |
| Freshman Year |  |
| MATH 150, Calculus .............................. 3 | MATH 156. General Statistics ................... 3 |
| History I ................................................. 3 | History II ................................................ 3 |
| ENGL 101 or 115, Eng Comp or Rhetoric .. 3 | ECON 200, Microcconomics .................... 3 |
| Foreign Language Elective ....................... 3 | Foreign Language Elective ....................... 3 |
| INFO 301, Managing lnfo Technology ...... 3 | MKTG 300, Principles of Marketing ......... 3 |
| Total ..................................................... 15 | Total..................................................... 15 |
| Sophomore Year |  |
| ECON 201, Macroeconomics .................... 3 | Literature Elective ................................... 3 |
| ACCT 200, Financial Accounting .............. 3 | ACCT 201, Managerial Accounting .......... 3 |
| THEO 111, Theological Foundations ........ 3 | PHIL 100, Ethics as Intro to Philosophy .... 3 |
| HRES 200, HR in a Diverse Society * ....... 3 | MGMT 300, Managerial Behavior ............ 3 |
| Science Elective ..................................... 3 | ECON 300, Int'l Trade \& Business ............. 3 |
| Total .................................................... 15 | Total..................................................... 15 |
| Junior Year |  |
| Theology Scrip/Hist or Christ Sys Elective 3 | PHIL 290, Theory of Knowledge .............. 3 |
| STAT 200, Intermediate Business Stats ....., 3 | Science Elective ...................................... 3 |
| Science Elective ..................................... 3 | ECON 306, Macroeconomic Analysis ........ 3 |
| ECON 305, Microeconomic Analysis ........ 3 | BLAW 300, Legal Environment ................ 3 |
| MGMT 301, Managerial Communications . 2 | MGMT 201, Quality \& Prod in Operations. 3 |
| ENGL/CLAS 205, Lit \& the Moral Imag ... 3 | Fine Arts Elective ................................... 3 |
| Total ..................................................... 17 | Total ...................................................... 18 |
| Senior Year |  |
| Theology Ethics or Rel/Cult Elective ......... 3 | Philosophy Elective ................................. 3 |
| FINC 300, Business Finance ..................... 3 | Economics Elective (400 level) ................. 3 |
| Economics Electives ................................ 6 | ECON 495, Managerial Economics ............ 3 |
| Business Elective .................................... 3 | E/R\&S Focus Elective ............................. 3 |
|  | General Elective ...................................... 3 |
| Total .................................................... 15 | Total.................................................... 15 |

* HRES 200 fulfills the Cultural Diversity Elective.

Scheduling Notes:

- Consult the Undergraduate Core Curriculum description on page 93 of the Catalog.
- E/R\&S Focus Elective requirement may be used to satisfy another element of the Core or the major.

Note: If $E / R \& S$ focus elective is double counted, program is 122 credit hours.
Freshman Year ..... 30
Sophomore Year ..... 30
Junior Year ..... 35
Senior Year ..... 30
Total Hours ..... 125

## REQUIREMENTS FOR THE ECONOMICS MINOR

- 15 hours of economics: ECON 200, 201, 305 or 306, and two upper division ( 300 or 400 ) courses.
- Students in the College of Business Administration may not count ECON 300 in the minor.
- A 2.000 cumulative average must be attained in the courses of the minor.


## BACHELOR OF SCIENCE IN BUSINESS ADMINISTRATION DEGREE IN HUMAN RESOURCES

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

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

## Requirements for the Human Resources Major

Core Curriculum Requirements (see page 93): 64 hours, including

- Mathematics: MATH 150, Calculus, and MATH 156, General Statistics
- Social science: ECON 200, Microeconomics, and ECON 201, Macroeconomics Business Core Requirements (see page 162): 35 hours Major Requirements
- 18 hours of human resources courses: HRES 495, and fifteen hours of electives. HRES 302 is strongly recommended. One non-business core economics course may be substituted for an HRES elective, with written permission of the chair.
- A 2.000 cumulative average must be attained in the human resources courses.
Electives:
- 3 hours of business electives, MGMT 320 is strongly suggested as the business elective.
- 3 hours general electives.


## B.S.B.A. Human Resources

This block serves as a guideline for progress toward a degree. See your academic adviser.
First Semester Credit Hours Second Semester Credit Hours

## Freshman Year

MATH 150, Calculus 3 MATH 156, General Statistics ..... 3
History 3 History II ..... 3
ENGL 101 or 115, Eng Comp or Rhetoric. 3 ECON 200, Microeconomics ..... 3
Foreign Language Elective 3 Foreign Language Elective ..... 3
INFO 301, Managing Info Technology 3 MKTG 300, Principles of Marketing ..... 3
Total 15 Total ..... 15

| First Semester Credit Hours | Second Semester Credit Hours |
| :---: | :---: |
| Sophomore Year |  |
| ECON 201, Macroeconomics .................... 3 | Literature Elective ................................... 3 |
| ACCT 200, Financial Accounting ............. 3 | ACCT 201, Managerial Accounting ........... 3 |
| THEO 111, Theological Foundations ........ 3 | PHIL 100, Ethics as Intro to Philosophy .... 3 |
| HRES 200, HR in a Diverse Society * ....... 3 | MGMT 300, Managerial Behavior ............. 3 |
| Science Elective .................................... 3 | ECON 300, Int'l Trade \& Business ............. 3 |
| Total ................................................... 15 | Total ..................................................... 15 |
| Junior Year |  |
| Theology Scrip/Hist or Christ Sys Elective 3 | PHIL 290, Theory of Knowledge .............. 3 |
| STAT 200, Intermediate Business Stats ...... 3 | Science Elective .................................... 3 |
| Science Elective ................................... 3 | Human Resources Elective ...................... 3 |
| Human Resources Elective ...................... 3 | ENGL/CLAS 205, Lit \& the Moral Imag .... 3 |
| MGMT 301, Managerial Communications . 2 | MGMT 201, Quality \& Prod in Operations . 3 |
| BLAW 300, Legal Environment ............... 3 | Fine Arts Elective .................................. 3 |
| Total ................................................... 17 | Total ................................................... 18 |
| Senior Year |  |
| Theology Ethics or Rel/Cult Elective ......... 3 | Philosophy Elective ................................ 3 |
| FINC 300, Business Finance .................... 3 | Human Resources Elective ...................... 3 |
| Human Resources Electives ..................... 6 | HRES 495, Current Human Res. Problem ... 3 |
| Business Elective .................................... 3 | E/R\&S Focus Elective ............................ 3 |
|  | General Elective ..................................... 3 |
| Total ................................................ 15 | Total................................................. 15 |

* HRES 200 fuifills the Cultural Diversity Elective.

Scheduling Notes:

- Consult the Undergraduate Core Curriculum description on page 93 of the Catalog.
- E/R\&S Focus Elective requirement may be used to satisfy another element of the Core or the major.

Note: If E/R\&S Focus Elective is double counted, program is 122 credit hours.
Freshman Year 30
Sophomore Year 30
Junior Year 35
Senior Year $\underline{\underline{30}}$
Total Hours 125

## THE DEPARTMENT OF FINANCE

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

## FACULTY

Faculty: DR. S. JOHNSON chair; DR. CAGLE, DR. GLASGO, DR. JANKOWSKE, DR. PAWLUKIEWICZ, DR. S. WEBB

## BACHELOR OF SCIENCE IN BUSINESS ADMINISTRATION DEGREE IN FINANCE

The Bachelor of Science in Business Administration 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.

## Requirements for the Finance Major

Core Curriculum Requirements (see page 93): 64 hours, including

- Mathematics: MATH 150, Calculus, and MATH 156, General Statistics
- Social Science: ECON 200, Microeconomics, and ECON 201, Macrocconomics Business Core Requirements (see page 162): 35 hours Major Requirements
- 18 hours of finance and accounting courses: FINC $365,370,401,495$, one finance elective, ACCT 301 or 350.
- A 2.000 average must be attained in the major requirement courses.

Electives:
3 hours of business electives.

- 3 hours of general electives.

| B.S.B.A. Finance |  |  |
| :--- | :---: | :---: |
| This block serves as a guideline for progress toward a degree. See your academic adviser. <br> Credit Hours |  |  |
| First Semester Second Semester$\quad$ Credit Hours |  |  |
| Freshman Year |  |  |
| MATH 150, Calculus ................................. 3 |  |  |

Sophomore Year
ECON 201, Macroeconomics ..................... 3 HRES 200, HR in a Diverse Society * ........ 3

ACCT 200, Financial Accounting .............. 3 ACCT 201, Managerial Accounting ............ 3
THEO 111, Theological Foundations ......... 3 PHIL 100, Ethics as Intro to Philosophy ..... 3
MGMT 300, Managerial Behavior ............. 3 Literature Elective ...................................... 3
Science Elective ....................................... 3 FINC 300, Business Finance....................... 3
Total ....................................................... 15 Total........................................................ I5

|  | B.S.B.A. Finance, continued <br> Credit <br> First Sotrs | Second Semester |
| :--- | :--- | :--- |

## THE DEPARTMENT OF MANAGEMENT AND ENTREPRENEURSHIP

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

## FACULTY

Faculty: DR. BRODZINSKI, chair; DR, BYCIO, DR. CLARK, DR.CUNNINGHAM, DR. EUSTIS, DR. GEEDING, DR. KILBOURNE, DR. KLOPPENBORG, DR. KRISHNAN, DR. PARK, DR. SHRIBERG

Adjunct Faculty: MR. KEEL (Executive in Residence)

## BACHELOR OF SCIENCE IN BUSINESS ADMINISTRATION DEGREE 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 who plan to attend law school.

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

## Requirements for a Major in Management

Core Curriculum Requirements (see page 93), 64 hours, including

- Mathematics: MATH 150, Calculus, and MATH 156, General Statistics
- Social science: ECON 200, Microeconomics, and ECON 201, Macroeconomics Business Core Requirements (see page 162): 35 hours Electives:
- 3 hours of business electives.
- 3 hours of general electives.

Major Requirements:

- 18 hours in management courses: MGMT 309, 310, 495, 9 hours of electives.
- ACCT 350, HRES 313, 321, 340, 345 are suggested courses for the business elective.
- A 2.000 cumulative average must be attained in the courses of the major.

| B.S.B.A. | nagement |
| :---: | :---: |
| This block serves as a guideline for progress | rd a degree. See your academic adviser. |
| First Semester Credit Hours | Second Semester Credit Hours |
| Freshn | n Year |
| MATH 150, Calculus ............................. 3 | MATH 156, General Statistics ................... 3 |
| History I ................................................. 3 | History II ................................................ 3 |
| ENGL 101 or 115, Eng Comp or Rhetoric.. 3 | ECON 200, Microeconomics .................... 3 |
| Foreign Language Elective ....................... 3 | Foreign Language Elective ....................... 3 |
| INFO 301, Managing Info Technology ...... 3 | MKTG 300, Principles of Marketing .......... 3 |
| Total .................................................... 15 | Total ...................................................... 15 |
| Sophon | re Year |
| ECON 201, Macroeconomics .................... 3 | HRES 200, HR in a Diverse Society * ....... 3 |
| ACCT 200, Financial Accounting ............. 3 | ACCT 201, Managerial Accounting ........... 3 |
| THEO 111, Theological Foundations ........ 3 | PHIL 100, Ethics as Intro to Philosophy ..... 3 |
| MGMT 300, Managerial Behavior ............ 3 | Literature Elective ................................... 3 |
| Science Elective ..................................... 3 | STAT 200, Intermediate Business Stats ...... 3 |
| Total ................................................... 15 | Total..................................................... 15 |
| Junior | Year |
| Theology Scrip/Hist or Christ Sys Elective 3 | PHIL 290, Theory of Knowledge .............. 3 |
| MGMT 201, Quality \& Prod. in Operations 3 | Science Elective ...................................... 3 |
| Science Elective ...................................... 3 | MGMT 310, Teamwork and Team Building 3 |
| MGMT 309, Organization Des \& Dev ....... 3 | BLAW 300, Legal Environment ................. 3 |
| MGMT 301, Managerial Communications , 2 | FINC 300, Business Finance ...................... 3 |
| ENGL/CLAS 205, Lit \& the Moral Imag ... 3 | Fine Arts Elective ................................... 3 |
| Total ..................................................... 17 | Total.................................................... 18 |
| Seni | Year |
| Theology Ethics or Rel/Cult Elective ......... 3 | Philosophy Elective ................................. 3 |
| ECON 300, Int'l Trade \& Business ............, 3 | Management Elective ............................... 3 |
| Management Electives ............................. 6 | MGMT 495, Strategy Formulation and Imp 3 |
| Business Elective .................................... 3 | E/R\&S Focus Elective ............................. 3 |
|  | General Elective ...................................... 3 |
| Total .................................................... 15 | Total...................................................... 15 |

* HRES 200 fulfills the Cultural Diversity Elective.


## Scheduling Notes:

- Consult the Undergraduate Core Curriculum description on page 93 of the Catalog.
- E/R\&S Focus Elective requirement may be used to satisfy another element of the Core or the major.

Note: If E/R\&S Focus Elective is double counted, program is 122 credit hours.
Freshman Year 30
Sophomore Year 30
Junior Year 35
Senior Year 30
Total Hours 125

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

- 18 credit hours over and above the College of Business core curriculum requirements. 15 hours must be selected from the following list; one course is to be selected from each of the 5 areas. The last course required is the integrative course MGMT 495.

Course No. Subject Credit Hours

1. ACCT 300 Intermediate Financial Accounting I ....................................... 3

ACCT 311 Introduction to Taxation
ACCT 321 Cost Accounting
2. FINC 365 Investments .......................................................................... 3

FINC 370 Financial Institutions
FINC 401 Financial Management
3. ECON 301 Money and Banking ............................................................. 3

ECON 330 Comparative Economic Systems
HRES 313 Human Resource Law
HRES 321 Workforce Diversity
HRES 345 Compensation Theory and Practice
4. MKTG 320 International Marketing ........................................................ 3

MKTG 345 Marketing Communications
MKTG 355 New Product Development
MKTG 370 Consumer Behavior
5. ENTR 311 Entrepreneurship ................................................................. 3

MGMT 309 Organization Design and Development
MGMT 320 Personnel Administration

- A 2.000 cumulative average must be attained in the courses of the major.
B.S.B.A. General Business

This block serves as a guideline for progress toward a degree. See your academic adviser.

| First Semester | Credit Hours | Second Semester | Credit Hours |
| :--- | :--- | :--- | :--- |
| Freshman Year |  |  |  |
| 3 |  |  |  |
| MATH 150, Calculus .............................. 3 | MATH 156, General Statistics .................................................................................................................................................................. | History II ................................................................................... 15 |  |

## Sophomore Year

| EC | HRES 200, HR in a Diverse Society * ....... 3 |
| :---: | :---: |
| ACCT 200, Financial Accounting ............. 3 | ACCT 201, Managerial Accounting ........... 3 |
| THEO 111, Theological Foundations ......... 3 | PHIL 100, Ethics as Intro to Philosophy .... 3 |
| Literature Elective .................................. 3 | MGMT 300, Managerial Behavior ............. 3 |
| Science Elective .................................... 3 | FINC 300, Business Finance .................... 3 |
| Total ................................................. 15 | Total.................................................. 15 |


| First Semester Credit Hours | Second Semester Credit Hours |
| :---: | :---: |
| Junior Year |  |
| Theology Scrip/Hist or Christ Sys Elective | PHIL 290, Theory of Knowledge .............. 3 |
| STAT 200, Intermediate Business Stats ..... 3 | Science Elective .................................... 3 |
| Science Elective .................................... 3 | General Business Elective (ACCT) ............ 3 |
| General Business Elective (ENTR/MGMT) 3 | BLAW 300, Legal Environment ..............., 3 |
| MGMT 301, Managerial Communications . 2 | MGMT 201, Quality \& Prod in Operations. 3 |
| ENGL/CLAS 205, Lit \& the Moral Imag ... 3 | Fine Arts Elective .................................. 3 |
| Total ................................................. 17 | Total................................................. 18 |
| Senior Year |  |
| Theology Ethics or Rel/Cult Elective ......... 3 | Philosophy Elective ............................... 3 |
| ECON 300, Int'l Trade \& Business ............ 3 | General Business Elective (MKTG) ........... 3 |
| General Business Elective (FINC) ............. 3 | MGMT 495, Strategy Formulation and Imp. 3 |
| General Business Elective (ECON/HRES) . 3 | E/R\&S Focus Elective ............................ 3 |
| Business Elective .................................... 3 | General Elective ..................................... 3 |
| Total ................................................. 15 | Total................................................. 15 |

* HRES 200 fulfills the Cultural Diversity Elective.

Scheduling Notes:

- Consult the Undergraduate Core Curriculum description on page 93 of the Catalog.
- E/R\&S Focus Elective requirement may be used to satisfy another element of the Core or the major.
Note: If E/R\&S Focus Elective is double counted, program is 122 credit hours.
Freshman Year 30
Sophomore Year 30
Junior Year 35
Senior Year 30
Total Hours 125
Note: If E/R\&S Focus Elective is double counted, program is 122 credit hours.


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

Xavier's undergraduate major in Entrepreneurial Studies is designed to help prepare students to:

1. Provide progressive leadership for existing family businesses,
2. Start their own businesses, and/or
3. Pursue corporate careers in creating and managing innovation,

The strength of our free enterprise economy depends heavily on entrepreneurs: individuals who identify new product or service opportunities, who develop warkable 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.

## Requirements for a Major in Entrepreneurial Studies

## BSBA in Entrepreneurial Studies

- Since successful entrepreneurs need to be generalists rather than specialists in only one business function, the Entrepreneurial Studies major is interdisciplinary in nature, providing advanced coursework in management, finance and marketing, as well as a real world senior year capstone project, for a total of 18 hours of upper level work as follows (all courses listed are 3 semester hours):
A. REQUIRED ( 9 hours):

ENTR 311 Entrepreneurship
ENTR 341 Managing the Entrepreneurial Venture
ENTR 495 Small Business Consulting
B. MARKETING ELECTIVE ( 3 hours, choose 1 of the following):

MKTG 302 Marketing Research
MKTG 361 Promotion and Selling
C. ELECTIVE ( 6 hours, choose any 2 of the following)

MKTG 302 Marketing Rescarch
MKTG 361 Promotion and Selling
ACCT 350 Financial Analysis for Managers
FINC 440 Purchase, Sale, and Valuation of Closely Held Firms
FINC 475 Real Estate Finance
MKTG 325 Marketing Services
MKTG 355 New Product Development

- A cumulative 2.000 average must be attained in the courses of the major.

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

## B.S.B.A. Entrepreneurial Studies

This block serves as a guideline for progress toward a degree. See your academic adviser.

| First Semester | Credit Hours | Second Semester |
| :--- | :--- | :--- |
| Freshman Year |  | Credit Hours |
| MATH 150, Calculus .............................. 3 | MATH 156, General Statistics ..................... 3 |  |
| History I ......................................................................................................................... | History II ................................................................. 15 |  |

B.S.B.A. Entrepreneurial Studies
Credit Hours Second Semester $\quad$ Credit Hours

* HRES 200 fulfills the Cultural Diversity Elective.

Scheduling Notes:

- Consult the Undergraduate Core Curriculum description on page 93 of the Catalog.
- E/R\&S Focus Elective requirement may be used to satisfy another element of the Core or the major.

Note: If $\mathrm{E} / \mathrm{R} \& S$ Focus Elective is double counted, program is 122 credit hours.
Freshman Year ..... 30
Sophomore Year ..... 30
Junior Year ..... 35
Senior Year ..... 30
Total Hours ..... 125

## THE DEPARTMENT OF MARKETING

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

## FACULTY

Faculty: DR. HAYES, chair; DR. AHUJA, DR. NULSEN, DR. SCHERTZER, DR. SCHUSTER, DR. TREBBI, DR. WALKER

Adjunct Faculty: DR VAN KIRK, MR. DUFEK (Executive in Residence)

## BACHELOR OF SCIENCE IN BUSINESS ADMINISTRATION DEGREE 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.

## Requirements for the Marketing Major

Core Curriculum Requirements (see page 93): 64 hours, including

- Mathematics: MATH 150, Calculus, and MATH 156, General Statistics
- Social science: ECON 200, Microeconomics, and ECON 201, Macroeconomics Business Core Requirements (see page 162): 35 hours Major Requirements
- 18 hours of marketing courses: MKTG 302,400, 495, and 9 hours of electives in upper division marketing courses.
- A 2.000 average must be attained in the marketing courses. Electives:
- 3 hours of business courses
- 3 hours of general electives. Marketing majors are encouraged to take PSYC 101, General Psychology, as the free elective.


## B.S.B.A. Marketing

This block serves as a guideline for progress toward a degree. See your academic adviser.

| First Semester Credit Hours | Second Semester Credit Hours |
| :---: | :---: |
| Freshman Year |  |
| MATH 150, Calculus ............................. 3 | MATH 156, General Statistics .................. 3 |
| History I .............................................. 3 | History II ............................................. 3 |
| ENGL 101 or 115, Eng Comp or Rhetoric.. 3 | ECON 200, Microeconomics ..................... 3 |
| Foreign Language Elective ...................... 3 | Foreign Language Elective ...................... 3 |
| INFO 301, Managing Info Technology ....... 3 | MKTG 300, Principles of Marketing .......... 3 |
| Total ................................................ 15 | Total................................................. 15 |



## COLLEGE OF BUSINESS CENTERS

## Center for International Business

The Xavier Center for International Business was established in July 1990 for the purpose of enhancing knowledge of international business among students, faculty and the business community. The Center develops programs within the College of Business Administration to ensure that students are prepared to meet the future challenges of businesses operating in the global economy. The Center also offers several services to the business community: seminars on international negotiation and cultural adaptation, and consulting on market development strategies.

## STAFF

Faculty: DR. GEEDING, Director
Adjunct Faculty: Members of the Xavier University faculty and resource personnel from local, national and international sources.

## Xavier Center for Economic Research

The Xavier Center for Economic Research offers economic consulting services to the local community. It specializes in measuring the regional economic impact of events and policies.

STAFF<br>Faculty: DR.COBB, Director; DR. BLACKWELL,Associate Director;DR. WEINBERG, Associate Director

## Xavier Entrepreneurial Center

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

## STAFF

Faculty: DR. EUSTIS, Director
Adjunct Faculty: Members of the Xavier University faculty and various resource personnel from the local business community.


# COLLEGE OF SOCIAL sCIENCES 

## (CSS) <br> Degrees, Programs and Block Schedules

The College of Social Sciences has degree programs in eight departments: Criminal Justice, Education, Health Services Administration, Nursing, Occupational Therapy, Political Science and Sociology, Psychology, and Social Work. In addition a Bachelor of Arts in Economics is offered through the College. Brochures showing required courses and suggested sequences of courses for each major are available in departmental offices.

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Education (including Adaptive Physical Education, Athletic Training, Early Childhood Education, Elementary Education, Human Resource Development, Montessori Education, Physical Education \& Health, Post Master's Clinical Counseling Endorsement Program, Secondary Education, Special Education, Sport Administration, Sport Management/Sport Marketing, Teacher Certification, Teaching Biology \& General Science, and Teaching Chemistry \& General Science) .. 193
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## THE DEPARTMENT OF CRIMINAL JUSTICE

The Department of Criminal Justice offers several degrees and programs:
The Bachelor of Science in Criminal Justice
The Criminal Justice minor
The Corrections minor
The Associate degree in Criminal Justice
The Associate degree in Corrections
The Certificate in Criminal Justice
The Certificate in Corrections
The Master of Science in Criminal Justice
For information on the associate degree, contact the Center for Adult and Part-time Students (CAPS) or the department.

## FACULTY

Faculty: DR. RICHARDSON, Director of Undergraduate Program, DR. ENDRES Adjunct Faculty: MS. AKRAM, DR. BYWATER, MR. DALLMAN, MR, SPRINGMAN

## BACHELOR OF SCIENCE DEGREE IN CRIMINAL JUSTICE

The curriculum for Criminal Justice majors who are 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 withethical considerations related to concepts of justice in contemporary society.

## Requirements for the Criminal Justice Major

Core Curriculum Requirements (see page 93): 64 hours

- MATH 116, Elementary Statistics, is the recommended Math course.

Major Requirements

- 30 hours of criminal justice courses: CJUS 101, 102, 210, 230, 260, 321, 381, 391, and 6 hours of CJUS electives. CJUS 391, Practicum in Criminal Justice, consists of supervised placement in criminal justice agencies, and CJUS 381, Methods of Criminal Justice Research, provides exposure to applied research in the subject area.
- A 2.000 cumulative average must be attained in the criminal justice major.

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

## B.S. Criminal Justice

This block serves as a guideline for progress toward a degree. See your academic adviser.

| First Semester Credit Hours | Second Semester Credit Hours |
| :---: | :---: |
| Freshman Year |  |
| History I............................................... 3 | History II ............................................. 3 |
| THEO 111, Theological Foundations ........ 3 | CJUS 101, Intro to Criminal Justice ........... 3 |
| Foreign Language Elective ....................... 3 | Foreign Language Elective ........................ 3 |
| Science Elective ................................... 3 | Science Elective .................................... 3 |
| ENGL 101 or 115, Engl Comp or Rhetoric. 3 | PHIL 100, Ethics as Intro to Philosophy .... 3 |
| Total ................................................. 15 | Total................................................. 15 |



## REQUIREMENTS FOR THE CORRECTIONS MINOR

- 18 hours of corrections courses: CJUS 101, 103 or 364, 230, 243, 321, and 336.


## REQUIREMENTS FOR THE ASSOCIATE OF SCIENCE DEGREE IN CRIMINAL JUSTICE

[^3]
## REQUIREMENTS FOR THE ASSOCIATE OF SCIENCE DEGREE IN CORRECTIONS

Core Curriculum Requirements (see page 95): 28 hours
Concentration Requirements

- 18 hours of corrections courses: CJUS 101,103 or 364, 230, 243, 321, and 336
- A 2.000 cumulative average must be attained in the corrections courses.


## REQUIREMENTS FOR THE CERTIFICATE IN CRIMINAL JUSTICE

Concentration Requirements

- 18 hours of criminal justice courses: CJUS $101,102,210,260,321$, and 364.


## REQUIREMENTS FOR THE CERTIFICATE IN CORRECTIONS

Concentration Requirements

- 18 hours of corrections courses: CJUS 101, 103 or 364, 230,243, 321, and 336


## MASTER OF SCIENCE DEGREE 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 everdeveloping 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, 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 (CJUS 792 and CJUS 784 respectively).

The 33 credit hours are distributed as follows:
BASIC REQUIRED COURSES: 24 hours
CJUS 606 CRIMINOLOGY (3)
CJUS 611 LAW AND JUSTICE IN AMERICA (3)
CJUS 620 SOCIOLOGY OF CRIME AND DELINQUENCY (3)
CJUS 621 JUVENILE JUSTICE IN A CHANGING SOCIETY (3)
CJUS 642 CRIMINAL JUSTICE ADMINISTRATION (3)
CJUS 683 RESEARCH AND PLANNING IN CRIMINAL JUSTICE (3)
CJUS 784 RESEARCH ESSAY: SEMINAR (3)
CJUS 792 INTERNSHIP (3).

## ELECTIVES: 9 hours

Students will be guided by their advisor in appropriate selection of criminal justice or other approved courses to bring the total number of hours for the degree to 33 .

The M.S. program in Criminal Justice invites applications from students with a bachelor's degree and a solid academic record. Admission decisions are based on factors such as past academic performance, standardized test score, and other information submitted.

Further information and application materials may be obtained from the Office of Graduate Services, 312 Elet Hall, (513) 745-3360.

## BACHELOR OF ARTS DEGREE IN ECONOMICS

The Department of Economics and Human Resources offers the Bachelor of Arts degree in Economics and a minor in Economics. The B.A. in Economics combines a liberal arts background with a thorough understanding of economic activity, and 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.

## FACULTY

Faculy: DR. R. ZIMMERMAN, chair; DR. ABU-RASHED. DR. BERTAUX, DR. BLACKWELL, DR. COBB, DR. MARMO, DR. RANKIN, DR. WEINBERG, DR. WILSON Senior Fellow: DR. DONNELLY.

## Requirements for the Economics Major

Core Curriculum Requirements (see page 93): 64 hours, including

- Mathematics: MATH 150 and 156.
- Social science requirement included within the major.

Major Requirements
33 hours: ECON 200, 201, 305, 306, STAT 200, 18 hours of electives which must include 6 hours of ECON courses at the 400 level. Up to 6 hours of human resources courses other than HRES 320,330, and 499 may be substituted for up to 6 hours of 300 level economics courses.

- A 2.000 cumulative average must be attained in the above courses.
- Computer competency required. Tutorials are available for students who are deficient in basic computing skills.


## B.A. Economics

This block serves as a guideline for progress toward a degree. See your academic adviser.

| First Semester Credit Hours | Second Semester Credil Hours |
| :---: | :---: |
| Freshman Year |  |
| THEO 111, Theological Foundations ......... 3 | PHIL 100, Ethics as Intro to Philosophy ..... 3 |
| MATH 150, Elements of Calculus I........... 3 | MATH 156, General Statistics .................. 3 |
| Foreign Language Elective ....................... 3 | Foreign Language Elective ....................... 3 |
| History I.............................................. 3 | History II .............................................. 3 |
| ENGL 101 or 115, Engl Comp or Rhetoric. 3 | ECON 200, Microeconomics Principles ..... 3 |
| Total ................................................. 15 | Total................................................. 15 |
| Sophomore Year |  |
| ECON 201, Macroeconomics Principles ..... 3 | STAT 200, Intermediate Business Stats ...... 3 |
| INFO 301, Mgmt Of Info Tech ................. 3 | PHIL 290, Theory of Knowledge .............. 3 |
| Theology Scrip/Hist or Christ Sys Elective 3 | ENGL/CLAS 205, Lit \& the Moral Imag .... 3 |
| Literature Elective ................................. 3 | Science Elective .................................... 3 |
| Science Elective ...................................... 3 | Theology Ethics or Rel/Cult Elective .......... 3 |
| Cultural Diversity Elective ....................... 1 |  |
| Total ................................................ 16 | Total ................................................. 15 |

B.A. Economics, continued

## Junior Year

ECON 305, Microeconomic Analysis 3 ECON 306, Macroeconomic Analysis ..... 3
Science Elective 3 Philosophy Elective ..... 3
Fine Arts Elective 3 Economics Elective* ..... 3
Economics Elective* 3 General Electives ..... 5-6
General Elective ..... 3
Total15 Total14-15
Senior Year
Economics Electives* 6 Economics Electives* ..... 6
General Electives 9 General Electives ..... 6
E/R\&S Focus Elective ..... 3
Total 15 Total ..... 15

* At least six hours of economics electives must be in the 400 - level courses.


## Scheduling Notes:

- Consult the Undergraduate Core Curriculum description on page 93 of the Catalog.
- E/R\&S Focus Elective requirement may be used to satisfy another element of the Core or the major.
- A minimum of 120 credit hours is required for the degree.


## REQUIREMENTS FOR THE ECONOMICS MINOR

- 15 hours of economics: ECON 200, 201, 305 or 306, and two upper division (300 or 400 ) courses.
- Students in the College of Business Administration may not count ECON 300 in the minor.
- A 2.000 cumulative average must be attained in the courses of the minor.


## 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 the following areas:

Elementary Education (Grades 1-8)+
Physical Education*+
Adaptive Physical Education*
Health Education
Athletic Training*
Sport Management
Sport Marketing
Teaching Biology and General Science (Grades 7-12)+
Teaching Chemistry and General Science (Grades 7-12)+
Montessori Education (Pre-K, K-3)+

* A dual concentration in Health Education can be added to any of these areas.
$+\quad$ Students may seek dual certification in Special Education along with these areas.
Minors are offered in Secondary Education and Montessori Education. An Associate of Science degree in Early Childhood Education is also offered. Contact the Center for Adult and Parttime Students (CAPS) for more information on this degree.

The Master of Education degree is available in many concentrations. See the M.Ed. section beginning on page 212 for the list of options. Also offered are the Executive M.Ed. in Human Resource Development and the M.Ed. in Sport Administration.

Students who do not meet acceptable performance standards in field experiences may be excluded from specific programs.

## FACULTY

Faculty and Staff: DR. J. BOOTHE, chair; DR. BRADLEY, MS. BRONSIL, MS. DAHLMEIER, MR. EFFRON, DR. FLICK, DR, GAFFNEY, DR. GARDNER, DR. HAMILL, MS. HARMAN, MS. HEWAN, MR. HUTTON, DR JOHNSON, DR. KIRK, DR. KORTH, DR. KRINER,MR.MASSIE,DR.McCONNELL,DR.McKENZIE, DR. MERRILL,DR.POHLMAN, DR. PROSAK-BERES, DR. QUINN, DR. RICHARDSON, DR. RIORDAN, DR. SONG, MS. VERTUCA, DR. WUBBOLDING

Adjunct Faculty: MS. BAILEY, DR, BERES, DR. BRANDT, MR. BREEN, DR. BREULEUX, MR. BRONSIL, MR. BROWN, MS. BURNS,MR. BYRD,MS. CAMPBELL, DR. CHANCE, MS. CHURCH-KISSEL, MR. COMODECA, DR. CONCANNON, MS. COTTINGHAM, MS. CROSBY, DR. DRAUD, MS. EISENHARDT, MR. GAMBLE, DR. GEER, SR. GERHARDSTEIN, MR. GORDON, MR. GOULET, MRS, GRACE, MS. GRADY, MS. GRAY, DR. GREEN, MS. GUERRY, MS. HARRISON, MS. HATLEY, MS. HAWKINS, DR. HAYDEN, DR. HENDERSON, MS. HERSHMAN, MS. HESS, MS. JENIKE, DR. JURKOWITZ, MS. KATHMAN, MR. KATZ, MR. KESSINGER, MS. KESSLER, MR. KNARR, MS. KRAPP, MR. KRAUSE, MS. LOFQUIST, MR. MEIER, MS. MEYERS, MS. MONAHAN, MS. MOORMAIER, MS. MUNSON, MR. O'CONNELL, MS. ONDASH, MS. PARSONS, MS. PERRY, DR. PHELPS, MR. PROFITT, MS. PRUDEN, MS. QUARANTA, MR. RAY, MS, RICHARDSON, MS. ROBINSON, MS. ROUFF,MS.RYAN,MS.SALZMAN, MR. SCHLIESS, MS. SCHMALZ, MR. SCHMIDT, MR. SCHUMACHER, MR. SETA, MS. SMALL, DR. STARK, MS. THOMAS, MS. TROEHLER, MS. TUCK, MR. ULRICH, DR. VALLANO, MS. WINTERMAN, DR. WOODDELL, MS, WOODS.

## 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 on these programs are available and give suggested sequences of courses and rules for admission to the program. Please note that courses required for certification which are more than 10 years old must be repeated. In secondary teaching, students take a major in their teaching field and complete certification requirements in professional education courses.

Grades K-12 Teaching certificates can be attained in the following fields:
Health Education, Physical Education, Languages, Special Education, Music, Visual Arts

Secondary School Teaching certificates can be attained in the following subject fields:
Biology, Humanities,Bookkeeping/Basic Business, Latin, Chemistry, Mathematics, Comprehensive Communications, Music, Comprehensive Science, Physical Education, Economics, Physics, English, Political Science, General Science, Psychology/Sociology, History, Social Studies, Visual Arts

Students may seek dual certificates in Special Education along with any of the above certificates. Students should contact the Director of Special Education after advising by the Director of Secondary Education. Additional courses and field experience will be required for dual certification.

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

NOTE: Effective January 1, 1998, the state of Ohio will adopt new teacher education and licensure standards. The present elementary certification program at Xavier will be phased out with the last certificates in Kindergarten to 3 and 1 to 8 given out in the year 2002. These changes will not affect students entering during the 1997-98 academic year: Contact the Department of Education for more information.

## Requirements for the Elementary Education Major

Core Curriculum Requirements (see page 93): 64 hours, including:

- Sciences: biological (BIOL) and physical sciences (CHEM \& PHYS) with labs are required.
- History: Recommend HIST 143 and 144; or HIST 133 and 134 with an additional 3 hours of non-western.
- Mathematics: 9 hours total, 3 hours in addition to the 6 hours of core requirement listed on page 81 (must have " C " or better in all math courses).
- The University Core Curriculum must be fulfilled to meet State of Ohio regulations in general education for teacher certification.
- English Composition: must have a " B " or better
- A 2.500 cumulative average must be attained in the core curriculum for recommendation for teacher certification.
Major Requirements:
- 60 hours of courses as specified in the Elementary Education Handbook and the Elementary Education Fact Sheet
- Field experiences and student teaching
- 3 hours: COMM 101, Oral Communication (must have a "B" or better)
- A 2.750 cumulative average must be attained in education courses for recommendation for teacher certification.
NOTE: The humanities courses required in the core curriculum fulfill the State of Ohio regulations for an "area of concentration." If a student wishes to do a concentration in mathematics, science or social science, summer session attendance will be necessary to complete the program in four years.
B.S. Elementary EducationThis block serves as a guideline for progress toward a degree. See your academic adviser.
First Semester Credit Hours Second Semester Credit Hours
Freshman Year
ENGL 101 or 115, Engl Comp or Rhetoric. 3 COMM 101, Oral Communication ..... 3
Foreign Language Elective 3 Foreign Language Elective ..... 3
Mathematics Elective 3 Mathematics Elective ..... 3
History I 3 History II ..... 3
THEO 111, Theological Foundations 3 PHIL 100, Ethics as Intro to Philosophy ..... 3
Cultural Diversity Elective EDEL 100, Intro Elementary Education ..... 3
Total 16 Total ..... 18
Sophomore Year
Science Elective 3 Science Elective ..... 3
Theology Scrip/Hist or Christ Sys Elective 3 PHIL 290, Theory of Knowledge ..... 3
EDFD 140, Developmental Theories 3 EDFD 142, Human Growth \& Devel II ..... 2
Mathematics Elective 3 EDSP 202, Speech \& Language Devel ..... 2
EDEL 251, Instructional Technology 3 EDSP 203, Sp Ed: Indent Issues ..... 3
Literature Elective 3 EDPE 384, Physical Ed/Health Elern ..... 3
Total 18 Total ..... 16
Junior Year
EDEL 313, Language Arts Block 9 EDEL 316, Science/Math Block ..... 6
ENGL/CLAS 205, Lit and the Moral Imag. 3 EDEL 318, Social Science Block ..... 5
MUSC 121, Music in the Elem Schools...... 2 Science Elective ..... 3
Fine Arts Elective 3 ARTS 221, Elementary School Art ..... 3
Total 17 Total ..... 17*Blocks listed above include field experience hours*
Senior Year
Theology Ethics or Rel/Cult Elective 3 EDEL 471, Student Teaching ..... 9
Social Science Electives 6 EDEL 472, Curriculum Design/Teaching ..... 3
Philosophy Elective ..... 3
EDSP 306, Ed/Behavior Management ..... 2
EDEL 201, Arts and Literacy ..... 2
Total 16 Total ..... 15

Scheduling Notes:

- Consult the Undergraduate Core Curriculum description on page 93 of the Catalog.
- The E/R\&S Focus Elective is required, but one of the other Core requirements may be selected to fulfill the requirement.
A minimum of 120 credit hours is required for the degree.
The block schedule above is for Elementary Education majors. For more details on Special Education programs, please contact the Special Education Office at (513) 745-3655.


## SECOND MAJOR: SPECIAL EDUCATION

Students may seek a second major and certification in special education along with certification in elementary education (Grades K-8), Additional course time and field experience will be required to obtain dual certification. Students should consult with the Director of Special Education for advising in both certifications.

Additional course time and field experience will be required to obtain dual certification. Students should contact the Director of Special Education after advisement with the Director of Secondary Education.

Special Education certification programs for undergraduates are in the areas of:
Moderate Intensive
Developmentally Handicapped
Multihandicapped
Mild Moderate
Severe Behavior Handicapped
Specific Learning Disabled
14 hours required from EDFD 141, 142; EDSE 131, 311, 315; EDSP 203.

## SECONDARY EDUCATION MINOR

A Secondary Education minor is normally declared by an undergraduate who intends to achieve state certification to teach in the public schools. The student must meet with the Director of Secondary Education who will serve as advisor for certification purposes only. The student retains his/her major area advisor for guidance in the major, University core and for all other purposes. This minor requires the completion of 29 to 32 semester hours of education course work, including student teaching, and a minimum GPA of 2.7000 must be achieved. State certification also requires the completion of prescribed courses in the teaching subject area. In order to complete the certification sequence at the end of his/her bachelor's program, the undergraduate should begin the certification sequence no later than the first semester of the sophomore year. Contact the Education Department for further information.

Foundation: 14 hours required from EDFD 141, 142; EDSE 131, 311, 315; EDSP 203
Concentrations: $15-18$ hours required (complete 1 of the following 5 options)

1. Secondary Ed (7-12): 15 hours required, take remaining 15 hours from EDSE 301, 303, 470.
2. Health or PE (K-12): 17 hours required, take remaining 17 hours from EDSP 306; EDPE 342, 381, 472.
3. Languages (K-12): 17 hours required, take remaining 17 hours from EDSE 302, 325; EDSP 306; EDSE 471.
4. Music (K-12): 18 hours required, take remaining 18 hours from EDSE 302; MUSC 121, 320, 321; EDSE 471.
5. Visual Art (K-12): 18 hours required, take remaining 18 hours from EDSE 302; ARTS 221, 223; EDSE 471.
CAUTION: Please consult with the Director of Secondary Education for exact program details and specific State of Ohio teaching certificate requirements.

## BACHELOR OF SCIENCE DEGREE IN PHYSICAL EDUCATION AND HEALTH

Requirements for the Physical Education and Health MajorCore Curriculum Requirements* (see page 93 ): 64 hours, including

- Science requirement includes BIOL 140, 141, 142, 143
- Philosophy (PHIL 329) and Theology (THEO 310) electives included within the major.
- Social science requirement included within the major.
Major Requirements:
- 30 hours of education courses: EDSE 131, 311, 315; EDFD 140 and 142; EDSP 203, 351, 357 and 373; EDPE 472.
- 37 hours of physical education courses: EDPE 193, 267, 276, 342, 377, 381, 385, 386, 387, 389, 392, 460; EDSM 370.
- 6 hours of physical education activity courses.
- 13 hours of health education courses: EDHE 168, 282, 288, 375, 387; EDSP 204.
- A total of 150 hours of clinical observation is required prior to student teaching.
- A 2.700 cumulative average must be attained in the major.
Scheduling Notes:
- Students are strongly encouraged to seek State of Ohio licensure in physical education and health.
- Students completing the above major and core requirements may apply for an adaptive physical education endorsement after completing EDSP 351 and 357
- See block schedule for Physical Education \& Health course sequence.


## B.S. Physical Education and Health

This block serves as a guideline for progress toward a degree. See your academic adviser.
First Semester
Credit Hours Second Semester
Credit Hours
Freshman Year

| BIOL 140, Human Anatomy \& Ph I .......... 3 | BIOL 142, Human Anatomy \& Phy II |
| :---: | :---: |
| BIOL 141, Human Anatomy \& Phy I Lab .. 1 | BIOL 143, Human Anatomy \& Phy II Lab |
| ENGL 101 or 115, Engl Comp or Rhetoric. 3 | PHIL 100, Ethics as Intro to Philosophy |
| Coaching Elective.................................. 2 | Foreign Language Elective |
| Foreign Language Elective ....................... 3 | EDFD 142, Hum Growth \& Dev II: Prac |
| THEO 111, Theological Foundations ......... 3 | EDPE 193, Hist \& Phil or Sport \& PE. |
| EDFD 140, Hum Growth \& Dev I: Theory .. 3 | EDSE 131, Intro to Sec Ed \& Field Exp |
|  | Cultural Diversity Elective |
| otal .................................................. 18 | Tota |


| Sophomore Year |  |
| :---: | :---: |
| HIST 143, United States to 1865............... 3 | HIST 144, United States Since 1865 .......... 3 |
| Mathematics Elective ............................. 3 | EDHE 282, Elem School Health Curr ........ 2 |
| EDHE 288, Personal \& Comm Health ........ 2 | Theology Scrip/Hist or Christ Sys Elective . 3 |
| PHIL 290, Theory of Knowledge ............... 3 | MATH 116, Elementary Statistics ............. 3 |
| EDSM 370, Basic Aquatics \& Pool Mgmt.. 2 | EDPE 276, Theory \& Prin of Coaching ....... 2 |
| EDHE 168, First aid, Safety \& CPR .......... 3 | ENGL/CLAS 205, Lit \& the Morai Imag. ... 3 |
| EDSP 203, Sp Ed: Ident \& Issues .............. 3 | EDSP 204, Intro to Emotionally <br> Disturbed Child. $\qquad$ |
| Total ................................................. 19 | Total.................................................. 18 |

Junior Year
PHIL 329, Medical Ethics * 3 EDPE 342, Methods in Sec PE ..... 3
EDSP 373, Ed \& Behavior Mgnt EDPE 389, Adaptive Physical Ed ..... 3
EDPE 385, PE in the Elem Schools 2 EDPE 392, Sensory Integ \& Motor Learn ..... 3
EDPE 381, Measure \& Eval in H \& PE 3 EDPE 267, Physiology of Exercise ..... 3
EDPE 386, Kinesiology 2 EDHE 387, STD, Aids, Death \& Dying ..... 2
EDPE 387, Kinesiology Lab THEO 310, Marriage and the Family ..... 3
Fine Arts Elective ..... 3
Coaching Elective ..... 2
Total ..... 18 Total ..... 17
Senior Year
EDSE 311, Clinical Experiences: Sec ..... 1
EDSE 315, Developmental Reading ..... 3
EDPE 377, Org \& Adm of H, PE \& AT EDHE 375, Nutrition for Sport ..... 2
EDPE 460, Curriculum in PE 2 EDPE 472, Student Teaching \& Sem ..... 9
EDSP 351, MH: Methods \& Techniques ..... 2
Coaching Elective ..... 2
EDSP 357, MH: Clinical Field Exp ..... 1
EDSP 204, Intro to Emotionally
Disturbed Child ..... 2
Literature Elective ..... 3
Total 16 Total ..... 14

* Medical Ethics is recommended to fulfill the E/R\&S Focus Elective.
Scheduling Notes:
- Consult the Undergraduate Core Curriculum description on page 93 of the Catalog.
- E/R\&S Focus Elective requirement may be used to satisfy another element of the Core or the major.
- A minimum of 137 credit hours is required for the degree.


## BACHELOR OF SCIENCE DEGREE IN ADAPTIVE PHYSICAL EDUCATION

## Requirements for the Adaptive Physical Education Major

Core Curriculum Requirements* (see page 93 ): 64 hours, including

- Science requirement: BIOL 140, 141, 142, 143; remainder is within the major.
- Social sciences requirement included within the major.
Major Requirements:
- 47 hours of education courses: EDPE 342, 381, 385, 386, 387, 389, 392 and 472; EDSE 131,311,315; EDFD 140 or 141, and 142; EDSP 203, 306, 351; EDSM 370 .
- A 2.700 cumulative average must be attained in the education courses.
* The University Core Curriculum must be fulfilled to meet State of Ohio regulations in general education for teacher certification.


## BACHELOR OF SCIENCE DEGREE IN ATHLETIC TRAINING

Athletic training is an allied health profession within the American Medical Association. Its mission is to enhance the quality of health care for the physically active through prevention, evaluation, management, and rehabilitation of athetic injuries. The Xavier University athletic training program fulfills the curricular guidelines established by the American Medical Association - sponsored Commission on Accreditation of Allied Health Education Programs (CAAHEP) and the National Athletic Trainers' Association (NATA). Completion of the degree fulfills the eligibility requirements of the NATA certification exam.

Students are encouraged to pursue teaching certification with the athletic training degree. This, however, may require additional semesters because of the athletic training degree and teaching certification requirements of 1500 clinical hours and student teaching, respectively. Applicants to the program are cautioned about the strict entrance requirements and intense clinical demands. The clinical experiences will require participation every weekday afternoon and some weekends during the regular academic year.

## Program Admission Requirements

Students may make application to the program during the second semester of their freshman year and must meet the following criteria to be considered for program admission:

- Minimum cumulative grade point average of $2.500(4.000$ scale) for all transcripted college courses.
- Complete at least 30 hours of core curriculum requirements.
- Minimum grade of "B" in EDAT 143, Introduction to Athletic Training.
- Health history and required yearly physical examination form.
- 2 MMR immunizations.
- Hepatitis B vaccine series.
- Minimum 100 documented athletic training clinical observation hours.
- Adult CPR certification (American Red Cross or American Heart Association).
- A successful writing sample and interview conducted by the Department of Health, Physical Education and Sport Studies - Athletic Training Program Admissions Committee.
- Liability insurance ( $\$ 1,000,000 / \$ 5,000,000$ ), purchased through Xavier University, will be billed to each student's account while enrolled in EDAT 150, 250, 350, 450, 492, and 495.
- Program application packet and supplemental documents submitted. These must be received by May 1 for admission the following fall and will not be reviewed until all supplemental materials have been submitted. Application packets are available in the Sport Studies Department.
Completion of the above items does not guarantee admission to the program. Students are responsible for expenses of the above, a required uniform (purchased in the Sport Studies Department), and transportation to and from clinical satellite sites.


## Requirements for Retention within the Athletic Training Program

- Conduct: A code of ethical behavior and conduct has been developed to ensure professional behavior within the Athletic Training program. The Athletic Training Advisory Committee will review cumulative infractions by each student. A student deemed unprofessional will not be permitted to continue in the program.
- Academics: A minimum of a 2.500 cumulative grade point average must be maintained. If a student earns lower than a grade of " C " in any athletic training course, it may be repeated once and must be taken at Xavier University.


## Requirements for the Athletic Training Degree

Core curriculum requirements (see page 93): 64 hours including

- Science requirements: BIOL $140,141,142,143,160,161,340$; and PHYS 160 and 161
Social sciences requirement: PSYC 101 and one 3 hour elective.
- Mathematics requirements: MATH 116, one elective chosen from MATH 120170.

E/R\&S Focus Elective: PHIL 329 recommended
Major requirements:

- 47 hours of education courses: EDAT $143,150,250,323,342,345,346,347,350$, 386/387, 450, 492; EDHE 168, 288, 375, 387; EDPE 267, 377, 381.
- Athletic Training Internship (1-9 hours): EDAT 495.
- Three hours of psychology: PSYC 477
- Three hours of information science: INFO 301
- 1500 clinical hours under the supervision of a certified athletic trainer.
- A 2.500 cumulative GPA and a minimum 2.000 in all athletic training courses to remain in the program.


## B.S. Athletic Training

This block serves as a guideline for progress toward a degree. See your academic adviser.

| First Semester Credit Hours | Second Semester Credit Hours |
| :---: | :---: |
| Freshman Year |  |
| EDAT 143, Intro to Athletic Training ........ 3 | EDAT 323, Rec \& Eval of Ath Injuries ...... 3 |
| EDHE 168, First Aid, Safety and CPR ....... 3 | BIOL 142, Human Anatomy \& Phy II........ 3 |
| EDAT 150, Athletic Training Practicum I .. 1 | BIOL 143, Human Anatomy \& Phy II Lab . 1 |
| BIOL 140, Human Anatomy \& Phy I ........ 3 | PHIL 100, Ethics as Intro to Philosophy ..... 3 |
| BIOL 141, Human Anatomy \& Phys I Lab. 1 | THEO 111, Theological Foundations ......... 3 |
| ENGL 101 or 115, Engl Comp or Rhetoric. 3 | MATH 120-170 (or placement selection) .... 3 |
| INFO 301, Mgmt of Info Tech ................. 3 |  |
| Total ................................................. 17 | Total.................................................. 16 |
| Sophomore Year |  |
| BIOL 160, General Biology I ................... 3 | EDPE 267, Physiology of Exercise ............ 3 |
| BIOL 161, General Biology I Lab.............. 1 | History Elective .................................... 3 |
| History Elective .................................... 3 | Foreign Language Elective ...................... 3 |
| Foreign Language Elective ...................... 3 | PHIL 290, Theory of Knowledge .............. 3 |
| MATH 116, Elementary Statistics ............ 3 | EDAT 346, Orthopedic lnjuries II ............. 3 |
| EDHE 288, Personal \& Comm Health ....... 2 | EDAT 250, Practicum II ......................... 1 |
| EDAT 345, Orthopedic Injuries I .............. 3 | Cultural Diversity Elective ....................... 1 |
| Total .................................................. 18 | Total................................................. 17 |
| Junior Year |  |
| PHYS 160, College Physics I................... 3 | EDAT 386, Adv Kinesiology for Ath Trn ... 2 |
| PHYS 161, Intro Physics I Lab ................. 1 | EDAT 387, Adv Kinesiology Lab .............. 1 |
| EDAT 342, Modalities \& Rehab ............... 3 | EDAT 450, Practicum IV ........................ 1 |
| EDAT 347, Orthopedic Injuries III ............ 3 | EDHE 375, Nutrition for Sport ................. 2 |
| EDAT 350, Practicum III ........................ 1 | BIOL 340, Advanced Physiology .............. 3 |
| Theology Scrip/Hist or Christ Sys Elective 3 | Literature Elective ................................. 3 |
| EDPE 381, Msmt \& Eval in H \& PE ......... 3 | ENGL/CLAS 205, Lit \& the Moral Imag .... 3 EDHE 387, STF, AIDS, Death \& Dying ..... 2 |
| Total ................................................. 17 | Total................................................. 17 |


Credit Hours Second Semester Credit Hours
Senior Year
EDPE 377, Org Adm of Health, PE \& AT .. 3 EDAT 495, Internship ..... 1-9
EDAT 102, Sem SemarPHIL 329, Medical Ethics *3
Theology Ethics or Rel/Cult Elective ..... 3
Social Science Elective
3
Total Total ..... 15

* Fulfills the E/R\&S Focus Elective.
- Students are encouraged to seek State of Ohio teacher licensure in Health Education. However, student must be prepared to take a minimum of a ninth semester to complete student treaching requirement.
- Student seeking licensure in Health Education must take EDFD 140 and 142; EDSE 131,311 and 315; EDSP 203 and 306; EDHE 282 and EDPE 472, in addition to all athletic training requirements. These courses also require a total of 150 classroom observation hours.
- Students pursuing a Bachelor of Science in Athletic Training who are also interested in certification in Health Education should contact the Education Department for a list of requirements.
- Consult the Undergraduate Core Curriculum description on page 93 of the Catalog.
- A minimum of 136 credit hours is required for the degree.


## BACHELOR OF SCIENCE DEGREE IN SPORT MANAGEMENT OR SPORT MARKETING

Requirements for the Sport Management or Sport Marketing Major<br>Core Curriculum Requirements (see page 93): 64 hours, including<br>- Social sciences requirement included within the major.<br>- Philosophy 321 is recommended as the philosophy elective.<br>- Mathematics requirements: MATH 116 required, 113 recommended.<br>- 71 hours, distributed as follows:<br>- Area 112 hours management courses required: EDSM 110 and 322, MGMT 300 , INFO 301.

- Area 28 hours social ethics required: EDPE 193, SOCI 232, PHYS 477.
- Area 36 hours legal aspects required: EDSM 348, BLAW 300.
- Area 412 hours communication arts required: COMM 101, 207 and 6 hours of electives.
- Area 56 hours of marketing required: MKTG 300 and 325 . Students wishing to concentrate in sport marketing must take an additional 6 hours of electives, with adviser's permission.
- Area 63 hours of accounting required: ACCT 200.
- Area 76 hours of economics required: ECON 200 and 201.
- Area 89 hours of sport and physical education electives required.
- Area 99 hours of sport management/maraketing internship required. Students may register for 3 hour blocks or complete a full-ime 9 hour internship. Each 3 hour block equals 200 clock hours for a total of 600 clock hours.


## B.S. Sport Management or Sport Marketing

This block serves as a guideline for progress toward a degree. See your academic adviser.

| First Semester Credit Hours | Second Semester Credil Hours |
| :---: | :---: |
| Freshman Year |  |
| ENGL 101 or 115, Engl Comp or Rhetoric. 3 | THEO 111, Theological Foundations ......... 3 |
| Mathematics Elective ............................. 3 | MATH 116, Elementary Statistics ............. 3 |
| PHIL 100, Ethics as Intro to Philosophy ..... 3 | COMM 101, Oral Communications ........... 3 |
| History Elective ..................................... 3 | History Elective .................................... 3 |
| Foreign Language Elective ....................... 3 | Foreign Language Elective ...................... 3 |
| Sport Activity Elective ............................ 2 | EDPE 193, History \& Phil of Sport ............ 2 |
| Total ................................................. 17 | Total.................................................. 17 |
| Sophomore Year |  |
| Science Elective .................................... 3 | Science Elective .................................... 3 |
| Theology Scrip/Hist or Christ Sys Elective 3 | PHIL 290, Theory of Knowledge .............. 3 |
| COMM 207, Interpersonal Communication 3 | SOCI 232, Sociology of Sport .................. 3 |
| EDSM 110, Intro to Sport Management ..... 3 | ECON 201, Macroeconomics Principles ..... 3 |
| Cultural Diversity Elective ....................... 1 | Communication Arts Elective ................... 3 |
| ECON 200, Microeconomic Principles ....... 3 | INFO 301, Mgmt of Info Tech ................. 3 |
| Sport Activity Elective ........................... 2 |  |
| Total .................................................. 18 | Total................................................... 18 |
| Junior Year |  |
| Theology Ethics or Rel/Cult Elective ......... 3 | ACCT 200, Financial Accounting ............. 3 |
| Literature Elective ................................. 3 | Philosophy Elective * ............................ 3 |
| Science Elective ................................... 3 | Marketing Elective ................................ 3 |
| ENGL/CLAS 205, Lit \& the Moral Imag ... 3 | Sport Activity Elective ............................ 3 |
| MKTG 300, Principles of Marketing ......... 3 | Communication Arts Elective ................... 3 |
| BLAW 300, Legal Environment ................ 3 | MGMT 300, Managerial Behavior ............. 3 |
| Total .................................................... 18 | Total................................................. 18 |
| Senior Year |  |
| Fine Arts Elective .................................. 3 | EDSM 495, Sport Mgmt/Mktg Internship ... 9 |
| Marketing Elective + .............................. 3 | Sport Activity Elective ............................ 2 |
| PSYC 477, Sports Psychology .................. 3 | Marketing Elective + ............................. 3 |
| Sport Activity Elective ........................... 2 |  |
| EDSM 348, Legal \& Ethical Iss in Sport .... 3 |  |
| Total ............................................. 11/14 | Total............................................. 11/14 |

+ For students with a concentration in sport marketing,
* PHIL 321, Ethical Business Decisions is strongly recommended.

Scheduling Notes:

- PHIL 321, Ethical Business Decisions, satisfies the Philosophy elective and the E/R\&S Focus elective.
- Consult the Undergraduate Core Curriculum description on page 93 of the Catalog.
- E/R\&S Focus Elective requirement may be used to satisfy another element of the Core or the major.
- A minimum of $128 / 134$ credit hours is required for the degree.


## BACHELOR OF SCIENCE DEGREE IN TEACHING BIOLOGY AND GENERAL SCIENCE

Requirements for the Teaching Biology and General Science MajorCore Curriculum Requirements* (see page 93): 64 hours, including

- Mathematics: MATH 150 and 156.
- Social sciences requirement included within the major.
- Science requirement included within the major.
Major Requirements:- 29 hours of education courses: EDSE 131, 301, 303, 311, 315; EDFD 141, 142,EDSP 438.
- 30 hours of biology courses: BIOL $160,161,162,163,210,211,230,240$ or 244or $360,410,411,450,451$, and 4 hours of biology electives (BIOL 250, 251, orBIOL 350, 351).
- 9 hours of chemistry courses: CHEM $160,161,162,163$.
- 14 hours of physics courses: PHYS 116, 117, 118, 119, 160, 161, 162, 163.
- A 2.700 overall cumulative average must be attained; a 2.500 GPA must also beattained in education courses and in each area of certification.
The program meets the State of Ohio certification requirements for Grades 7-12.
* The University Core Curriculum must be fulfilled to meet State of Ohio regulationsin general education for teacher certification.
B.S. Teaching Biology and General Science
This block serves as a guideline for progress toward a degree. See your academic adviser.
First Semester Credit Hours Second Semester Credit Hours
Freshman Year
BIOL 160, General Biology I ..................... 3 BIOL 162, General Biology II .................... 2
BIOL 161 General Biology I Lab 2 BIOL 163, General Biology II Lab ..... 2
CHEM 160, General Chemistry I 3 CHEM 162, General Chemistry II ..... 3
CHEM 161, General Chemistry I Lab 1 CHEM 163, General Chemistry II Lab ..... 2
ENGL 101 or 115, Engl Comp or Rhetoric . Foreign Language Elective ..... 3
Foreign Language Elective 3 PHIL 100, Ethics as Intro to Philosophy ..... 3
THEO 111, Theological Foundations ..... 3
Total 15 Total ..... 18
Sophomore Year

| BIOL 210, General Botany | BIOL 250/251, Ecology \& Lab |
| :---: | :---: |
| BIOL 211, General Botany Lab ................ 2 | or BIOL 350/351 Gen Embry \& Lab ......... 4 |
| PHYS 160, College Physics I ................... 3 | PHYS 162, College Physics II .................. 3 |
| PHYS 161, Intro Physics I Lab ................. 1 | PHYS 163, Intro Physics II Lab ................ I |
| MATH 150, Elements of Calculus I ........... 3 | MATH 156, General Statistics .................. 3 |
| EDSE 131, Intro Sec Ed \& Fld Ex ............ 3 | Literature Elective ................................. 3 |
| EDFD 141, Human Growth/Dev I: Theory , 2 | EDFD 142, Human Growth/Dev II: Pract ... 2 |
| Cultural Diversity Elective ........................ 1 | EDSP 203, Sp Ed: Ident Issue.................... 2 |
| Total ................................................. 17 | Total |


| First Semester Credit Hours | Second Semester Credit Hours |
| :---: | :---: |
| Junior Year |  |
| BIOL 240, Evolution, or BIOL 244, Animal | BIOL 230, Genetics ................................ 3 |
| Behavior, or BIOL 360, Cell Biol ............ 2 | PHYS 116, Our Universe: Earth ................ 2 |
| BIOL 410, Vertebrate Physiology ............. 2 | PHYS 117, Our Universe: Earth Lab .......... 1 |
| BIOL 411, Vertebrate Phys Lab ................ 2 | History II ............................................. 3 |
| PHYS 118, Our Universe: Sky ................ 2 | PHIL 290, Theory of Knowledge .............. 3 |
| PHYS 119, Our Universe: Sky Lab ........... 1 | Theology Scrip/Hist or Christ Sys Elective . 3 |
| History I.............................................. 3 | EDSE 311, Clinic Exp: Secondary ............ 1 |
| EDSE 301, Secondary Meth \& Fld Exp ...... 3 |  |
| EDSE 303, Secondary Curr \& Fld Exp ....... 3 |  |
| Total ................................................. 18 | Total................................................. 16 |
| Senior Year |  |
| EDSE 470, Student Teaching ................... 9 | BIOL 450, Bacteriology .......................... 2 |
| EDSE 315, Dev Read in Secondary School 3 | BIOL 451, Bacteriology Lab .................... 2 |
| E/R\&S Focus Elective *........................... 3 | Philosophy Elective ............................... 3 |
|  | Theology Ethics or Rel/Cult Elective ......... 3 |
|  | Fine Arts Elective .................................. 3 |
|  | ENGL/CLAS 205, Lit \& The Moral Imag... 3 |
| Total ................................................... 15 | Total................................................. 16 |

Biology 30 hours, Chemistry 9 hours, Physics 14 hours, Math 6 hours. E/R\&S Focus courses: One elective required in addition to PHIL 100, THEO 111, and ENGL/CLAS 205. See list in current class schedule. (Elective course may be used to satisfy another core requirement.) Required: 2.700 overall GPA; 2.500 GPA in education courses; 2.500 GPA in sciences. This program meets the State of Ohio certification requirements for grades 7 through 12.

* The E/R\&S Focus Elective is required, but may be fulfilled by one of the other Core requirements.


## Scheduling Notes:

- Consult the Undergraduate Core Curriculum description on page 93 of the Catalog.
- A minimum of 130 credit hours is required for this degree.


## BACHELOR OF SCIENCE DEGREE IN TEACHING CHEMISTRY AND GENERAL SCIENCE

Requirements for the Teaching Chemistry and General Science MajorCore Curriculum Requirements* (see page 93): 64 hours, including- Mathematics: MATH 150 and 156.

- Social sciences requirement included within the major.
- Science requirement included within the major.
Major Requirements:- 29 hours of education courses: EDSE 131, 301, 303, 311, 315; EDFD 141, 142;
EDSP 438.
- 30 hours of chemistry courses: CHEM 160,161,162,163,220,221,240,241,242, $243,340,341$ or 440 .
- 9 hours of biology courses: BIOL $160,161,162,163$.
- 14 hours of physics courses: PHYS 116, 117, 118, 119, 160, 161, 162, and 163.
- A 2.700 cumulative average must be attained; a 2.500 GPA must also be attained in education courses and in each area of certification.
This program meets the State of Ohio certification requirements for Grades 7-12.
* The University core curriculum must be fulfilled to meet State of Ohio regulations in general education for teacher certification.


## B.S. Teaching Chemistry \& General Science

This block serves as a guideline for progress toward a degree. See your academic adviser.

| First Semester Credit Hours | Second Semester Credit Hours |
| :---: | :---: |
| Freshman Year |  |
| BIOL 160, General Biology I ................... 3 | BIOL 162, General Biology II ................... 2 |
| BIOL 161, General Biology I Lab .............. 1 | BIOL 163, General Biology II Lab ............ 2 |
| CHEM 160, General Chemistry I .............. 3 | CHEM 162. General Chemistry II .............. 3 |
| CHEM 161, General Chemistry I Lab ........ 1 | CHEM 163, General Chemistry II Lab ....... 2 |
| MATH 150, Elements of Calculus I.... .... 3 | MATH 156, General Statistics .................. 3 |
| Dhit 10 n , Fthioo as Intro to Fnilosophy ..... 3 | THEO 111, Theological Foundations .......... 3 |
| ENGL 101 or 115, Engl Comp or Rhetoric. 3 | Literature Elective .................................... 3 |
| Total .................................................... 17 | Total.................................................... 18 |
| Sophomore Year |  |
| CHEM 240, Organic Chemistry I............. 3 | CHEM 242, Organic Chemistry II ............. 3 |
| CHEM 241, Organic Chemistry I Lab ....... 1 | CHEM 243, Organic Chemistry II Lab....... 1 |
| PHYS 160, College Physics I ................... 3 | PHYS 162, College Physics II ................... 3 |
| PHYS 161, Intro Physics I Lab ................. 1 | PHYS 163, Intro Physics II Lab ................ 1 |
| EDSE 131, Intro Sec Ed \& Field Exp ....... 3 | History II ................................................ 3 |
| EDFD 141, Human Growth/Dev I: Theory . 2 | EDFD 142, Human Growth/Dev II: Pract ... 2 |
| History I ................................................. 3 | Theology Scrip/Hist or Christ Sys Elective . 3 |
| Cultural Diversity Elective ....................... 1 |  |
| Total .................................................... 17 | Total..................................................... 16 |

## B.S. Teaching Chemistry and General Science, continued

First Semester Credit Hours Second Semester Credit Hours

Junior Year
CHEM 340, Instrumental Analysis ............. 3 CHEM 341, Instrumental Analysis Lab...... 2

CHEM 440, Biochemistry .......................... 3 PHYS 118, Our Universe: Sky .................. 2
EDSP 203, Sp Ed: Indent Issue .................. 2 PHYS 119, Our Universe: Sky Lab ........... 1
PHYS 116, Our Universe: Earth ................ 2 EDSE 303, Secondary Curr. \& Field Exp.... 3
PHYS 117, Our Universe: Earth Lab .......... I EDSE 311, Clinical Exper: Secondary ....... 1
EDSE 301, Secondary Meth \& Field Exp. .. 3 ENGL/CLAS 205, Lit \& the Moral Imag .... 3
CHEM 220, Principles of Physical Chem .... 3 EDSE 315, Develop Reading in Sec ............ 3
CHEM 221, Analytical Chemistry ............... I Foreign Language Elective ......................... 3
Total ....................................................... 18 Total........................................................ 18

| Senior Year |  |  |
| :--- | :--- | :---: |
| EDSE 470, Student Teaching ..................... 9 | Chemistry Electives (300 level) .............................................................................................................................................................................. 15 |  |

Chemistry 30 hours, Biology 9 hours, Physics 14 hours, Math 6 hours. Required: 2.700 overall GPA; 2.500 GPA in education courses; 2.500 GPA in sciences. This program meets the State of Ohio certification requirements for grades 7 through 12.

Scheduling Notes:

- Consult the Undergraduate Core Curriculum description on page 93 of the Catalog.
- The E/R\&S Focus Elective is required, but one of the other Core requirements may be selected to fulfill the requirement.
- A minimum of 130 credit hours is required for the degree.


## UNDERGRADUATE PROGRAMS IN MONTESSORI EDUCATION

The philosophy of education taught in the Montessori program was researched by Dr. Maria Montessori, the first Italian woman to graduate from medical school in Rome in 1896. Dr. Montessori's philosophy supports the fundamental tenet that a child learns best within a social environment which supports each individual's unique development. Multi-age grouping in each class promotes peer group learning. The children work in a prepared learning environment that is child-centered and beautifully prepared with learning materials to aid the child in exploration of new ideas. The Montessori teacher learns to be a scientific observer and facilitator, providing an environment for children that is developmentally appropriate to help the child grow in all areas: social, cognitive, emotional, and physical.

The Montessori Teacher Education undergraduate program is based on a strong foundation in liberal arts and child development. The Montessori philosophy prepares the student with an understanding of Dr. Montessori's philosophy in light of the education of the past and present. The Montessori curriculum prepares the student to teach practical life, art, music, movement, sensorial education, math, language, geography, science, and history.

The Xavier University Montessori Teacher Education program grants Montessori certification in the following areas:

1. American Montessori certification for pre-school or elementary.
2. State of Ohio Early Childhood certification for Pre-K and K-3. Graduates will be certified to teach in public or private traditional schools from Pre-K to K-3.

# BACHELOR OF SCIENCE DEGREE IN MONTESSORI EDUCATION 

Early Childhood Education Pre-Kindergarten and K-3 State Certification American Montessori Society Certification for Ages 3 to 6 Years

## Requirements for the Montessori Education Major, Pre-K, and K-3

Core Curriculum Requirements* (see page 93 ): 64 hours, including

- Sciences: a biological (BIOL) and a physical science (CHEM or PHYS) are required.
- History and social sciences; requirements included within the major.
* The University Core Curriculum must be fulfilled to meet State of Ohio regulations in general education for teacher certification. A 2.500 cumulative average must be attained in the core curriculum for recommendation for teacher certification.


## Major Requirements:

- 52 hours of education courses: see department for accurate listing.
- 9 hours of history: HIST 143, 144, and a world civilization course.
- COMM 101, Oral Communication.
- A 2.750 cumulative average must be attained in the education courses for recommendation for teacher certification.
NOTE: The number of humanities courses required in the core curriculum fulfills the State of Ohio regulations concerning an "area of concentration."

| B.S. Montessori Education <br> This block serves as a guideline for progress toward a degree. See your academic adviser. <br> EARL Y CHILDHOOD PROGRAM <br> State of Ohio Certification Pre-K and K-3 <br> American Montessori Certification Ages 3-6 <br> Credit Hours |  |  |  |
| :--- | :---: | :---: | :---: |
| Fecond Semester |  |  |  |
| First Semester |  |  |  |

## Scheduling Notes:

- Consult the Undergraduate Core Curriculum description on page 93 of the Catalog,
- E/R\&S Focus Elective requirement may be used to satisfy another element of the Core or the major.
- A minimum of 122 credit hours is required for the degree.


# BACHELOR OF SCIENCE DEGREE IN MONTESSORI EDUCATION 

## Early Elementary Program State Certification for K-3 American Montessori Society Certification for Ages 6 to 9 Years

## Requirements for the Montessori Education Major: K-3

Core Curriculum Requirements* (see page 93 ): 64 hours, including

- Sciences: a biological and a physical science are required.
- History and social sciences requirements included within the major.
* The University Core Curriculum must be fulfilled to meet State of Ohio regulations in general education for teacher certification. A 2.500 cumulative average must be attained in the core curriculum for recommendation for teacher certification.

Major Requirements:

- 54 hours of education courses: see department for accurate listing.
- 9 hours of history: HIST 143, 144, and a world civilization course.
- 3 hours: COMM 101, Oral Communication
- A 2.750 cumulative average must be attained in the education courses for recommendation for teacher certification.

NOTE: The number of humanities courses required in the core curriculum fulfills the State of Ohio regulations concerning an "area of concentration."
B.S. Montessori Education

This block serves as a guideline for progress toward a degree. See your academic adviser.
ELEMENTARY PROGRAM
State of Ohio Certification K-3 and American Montessori Certification Ages 6-9
First Semester Credit Hours Second Semester Credit Hours

## Freshman Year

ENGL 101 or 115, Engl Comp or Rhetoric . ..... 
Foreign Language Elective3 Foreign Language Elective
Mathematics Elective3 Mathematics Elective3
HIST 143, US to 1865 I 3 HIST 144, US Since 1865 II ..... 3
THEO 111, Theological Foundations 3 PHIL 100, Ethics as Intro to Philosophy ..... 3
Total 15 Total ..... 15
Sophomore Year
EDFD 140, Developmental Theories I ..... 2
EDFD 141, Developmental Theories II ..... 2
Theology Scrip/Hist or Christ Sys Elective PHIL 290, Theory of Knowledge ..... 3
Physical Science Elective 3 Biology Science Elective ..... 3
EDSP 203, Sp Ed: Ident Issue 3 COMM 101, Oral Communication ..... 3
EDEL 251, Instructional Technology 3 EDME 353, Montessori Math \& Geo Met ..... 3
EDME 351, Mont. Ed: Phil Approach 3 Cultural Diversity Elective ..... I
Total 17 Total ..... 15

| Science Elective .................................... 3 | History World Civilization Elective |
| :---: | :---: |
| ENGL/CLAS 205, Lit \& the Moral Imag ... 3 | EDME 355, Montessori Cultural Sub Met .. 3 |
| EDME 354, Mont. Lang. Arts \& Read Met 3 | EDPE 385, PE in the Elem School ............ 3 |
| EDEL 317, Teaching Language Arts ......... 3 | Fine Arts Elective ................................. 3 |
| EDEL 326, Children's Literature ............... 3 | E/R\&S Focus Elective ............................ 3 |
| EDEL 314, Teaching Reading ................... 3 | Theology Ethics or Rel/Cult Elective ......... 3 |
| Total .................................................. 18 | Total ................................................. 18 |
| Senior Year |  |
| EDME 352, Montessori Curr Design \& Teaching Strategies I: Primary $\qquad$ | EDME 356, Montessori: Integration of the Curriculum: Primary $\qquad$ |
| EDME 470, Montessori Primary Prac I ...... 6 | EDME 471, Montessori Primary Prac II ...... 6 |
| Philosophy Elective ................................ 3 | EDME 350, Methods of Observation ......... 3 |
|  |  |

Scheduling Notes:

- Consult the Undergraduate Core Curriculum description on page 93 of the Catalog.
- E/R\&S Focus Elective requirement may be used to satisfy another element of the Core or the major.
- A minimum of 122 credit hours is required for the degree.


## MINOR IN MONTESSORI EDUCATION

The Montessori Education minor is a twenty-seven hour program available to all Xavier undergraduates and compatible with any major. The program is designed to provide each student with academic and practicum experiences in the field of teaching young children.

The student will receive American Montessori Certification. This will allow the student to teach in private Montessori schools both at home and abroad.

Further information about this program can be obtained by calling (513) 745-3424.

## ASSOCIATE OF SCIENCE DEGREE IN EARLY CHILDHOOD EDUCATION

## State of Ohio Certification - Associate Certificate <br> Requirements for the Associate Degree in Early Childhood Education

Core Curriculum Requirements (see page 95): 31 hours
Concentration Requirements:

- 36 hours of education courses.
- 3 hours of psychology: PSYC 232.
- A 2.500 cumulative average must be attained in the concentration.

The Associate Degree in Science/Early Childhood Education consists of 70 semester hours offered by the College of Social Sciences through the Center for Adult and Part-Time Students (CAPS). Coursework may be applied to a four-year degree program.
Core Requirements: (31 credit hours)
ENGL 101 English Composition ..... 3
THEO 111 Theological Foundations ..... 3
PHIL 100 Ethics as Intro to Philosophy ..... 3
PHIL 290 Theory of Knowledge or Theology Elective ..... 3
Literature Elective ..... 3
Social Science Elective ..... 3
History Elective ..... 3
Science Elective ..... 3
Cultural Diversity Elective ..... 1
Fine Arts Elective ..... 3
Oral Communication ..... 3
Early Childhood Education Requirements: (39 credit hours)
EDME 350 Methods of Observation of Children ..... 3
EDME 351 Montessori Education: Philosophical Approach ..... 3
EDME 359 Full Day Child Care Methods ..... 3
EDME 364 Early Childhood/Montessori Methods ..... 3
EDME 365 Early Childhood/Math \& Lang Methods ..... 3
EDME 366 Montessori Curr Des \& Teach Strategies I: Early Child ..... 3
EDME 367 Montessori Curr Des \& Teach Strategies II: Early Child ..... 3
EDME 473 Montessori Early Child Practicum I ..... 6
EDME 474 Montessori Early Child Practicum II ..... 6
EDSP 203 Special Ed: Identification and Issues ..... 3
PSYC 232 Child Psychology ..... 3
EDFD 140 Developmental Theories I ..... 3

## MASTER OF EDUCATION DEGREE

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 or her 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 understanding and skills necessary for intelligent consumption of educational research.
To ensure comprehensiveness in their programs for the Master of Education degree, candidates should include in their programs 12 hours of general survey courses (or alternate courses as indicated by specific program) designed to provide integrated coverage of the broad field of education. These courses are:

| EDFD 501 | Philosophy of Education (3) |
| :--- | :--- |
| EDFD 503 | Advanced Educational Psychology (3) |
| EDFD 505 | Educational Administration (3). |
| EDFD 507 | Educational Research (2) and |
| EDFD 508 | Educational Research Paper (1). |

To ensure 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, art, biology, business education, chemistry, classics, counseling, elementary education, English, French, German, history-political science, mathematics, Montessori education, music, philosophy, physical education, psychology, reading specialist, school counseling, secondary education, Spanish, special education, sport administration or theology. Those interested in the M.Ed. program may obtain fact sheets covering specifics of concentrations from the Office of Graduate Services.

The Master of Education program invites applications from students with a bachelor's degree and a solid academic record. Admission decisions are based on factors such as past academic performance, standardized test score, and other information submitted.

Further information and application materials may be obtained from the Office of Graduate Services, 312 Elet Hall, (513) 745-3360.

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, 6 credit hours.

* Certain concentrations may require more than 12 semester hours, particularly where state certification requirements are involved.
The M.Ed. in Counseling and the M.Ed. in Agency \& Community Counseling require a minimum of 36 semester hours. The requirements for the degrees are somewhat different than those listed above. Also, additional semester hours are required for students seeking licensure in these fields. Please consult the program director for specific counseling degree requirements.

In addition, a Post-Master's Endorsement Program in Clinical Counseling is available at Xavier. Please consult the program director for information in addition to the listings on page 215 of this catalog.

The Master of Education degree will be awarded only to candidates who have passed an extensive written examination covering their particular field of concentration (administration, counseling, etc.) or covering 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 and sport administration may apply for a waiver of the 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 and relevant National Teacher Examination of the State Department of Education beyond academic requirements for each specific certificate.

## Master of Education Degree in Montessori Education

The Program concentration:
I. A.M.S. Pre-School Certificate and the Master of Education Degree, and the Ohio Pre-Kindergarten Teaching Certificate and State of Ohio K-3.
The concentration in Montessori Education for the American Montessori Society Pre-School Certificate and the State of Ohio Teaching Certificate, Pre-Kindergarten and K-3 must include the following coursework:
$\qquad$
EDME 551 Montessori Ed: Phil Approach .......................................... 3
EDME 563 Early Cognitive Develop .................................................. 3
EDME 564 Early Childhood/Mont Methods ......................................... 3
EDME 565 Early Childhood/Math/Lng Meth ........................................ 3
EDEM 566 Mont Curr Des \& Teach Strat I ........................................... 3
EDME 567 Mont Curr Des \& Teach Strat II .......................................... 3
EDME 673 Mont Early Child Practicum I ............................................ 3
EDME 674 Mont Early Child Practicum II ........................................... 3
EDME 550 Methods of Observation ..................................................... 3
EDME 559 Full Day Child Care Methods ............................................ 3
EDEL 514 Methods of Teaching Reading .......................................... 3
II. A.M.S. Montessori Elementary Certificate and the Master of Education Degree, and the Ohio K-3 Teaching Certificate
Students holding no primary or elementary Ohio teaching certificate and/or no Montessori certificate of any type, wishing to obtain A.M.S. Montessori Elementary certification, the Master of Education degree, and Ohio K-3 teacher certification must take the following courework:Semester Hours
EDFD 503, 505, 507, 508 ..... 9
EDME 551 Montessori Ed: Phil Approach ..... 3
EDME 563 Early Cognitive Develop ..... 3
EDME 550 Methods of Observation ..... 3
EDME 552 Mont Curr Des \& Teach Strat I ..... 3
EDME 556 Mont Integration of Curr: Prim ..... 3
EDME 670 Mont Primary Practicum I ..... 3
EDME 671 Mont Primary Practicum II ..... 3
EDME 553 Mont Math \& Geometry Meth ..... 3
EDME 554 Mont Language Arts \& Read Meth ..... 3
EDME 555 Mont Cultural Subjects Meth .....  3
EDEL 514 Methods of Teaching Reading ..... , 342
III. Masters of Education with a concentration in Montessori Education (No State Certification or Montessori Certification is granted.)
The following coursework is required:
Semester Hours
EDFD 503, 505, 507 ..... 9
EDME 551 Montessori Ed: Phil Approach ..... 3
EDME 563 Early Cognitive Development ..... 3
EDME 550 Methods of Observation/Clinical Exp. ..... 3
If you are concentrating in Pre-primary, add the following courses:
EDME 564 Early Childhood/Montessori Meth ..... 3
EDME 565 Early Childhood/Math \& Lang Meth ..... 3
EDME 559 Full Day Child Care Meth ..... 3
Elective Montessori Course ..... 330
If you are concentrating in Elementary, add the following courses:
EDME 553 Montessori Math \& Geometry Meth ..... 3
EDME 554 Montessori Language Arts \& Read Meth ..... 3
EDME 555 Montessori Cultural Subjects Meth ..... 3
Elective Montessori Course ..... 3

## MASTER OF EDUCATION DEGREE IN HUMAN RESOURCE DEVELOPMENT, EXECUTIVE PROGRAM

The weekend executive M.Ed. in Human Resource Development (HRD) is designed to meet the needs of individuals who wish to advance in, or enter, the expanding HRD field. This degree is awarded to the candidate who has developed a capacity to implement the integrated use of training, organization and career development efforts in improving individual, group, and organizational effectiveness. Typical HRD practices include executive and supervisory/management development, professional skills training, organization development, consultation, and technical/job instruction and coaching, among others.

This 30 -credit, 11 -course interdisciplinary program covers key competencies in developing the adult learner, applying and designing HRD research, behaving in organizations, consulting for organizational effectiveness, advising for career development, assessing and evaluating HRD programs, designing and developing HRD programs, facilitating learning in HRD prograns, trends \& issues in HRD, and managing the HRD function.

The Executive HRD Program is a 21 -month program. Students attend classes on the Xavier campus 24 weekends (Friday night, all day Saturday, and Sunday mornings) during that time. A unique feature of this program is that it employs an executive approach to graduate study: students enter with a group of students with whom they remain throughout their program of study. Due to the comprehensive and consecutive sequence of courses, no transfer credits will be accepted from other programs. There is no final thesis or comprehensive exam required for the program. Students will be admitted once per year in the fall. Early application to the program is recommended. Please review the program fact sheet for specific admissions information.

## MASTER OF EDUCATION DEGREE IN SPORT ADMINISTRATION

The degree of Master of Education with a concentration in Sport Administration is designed to prepare an individual for a career within the expanding sport industry. The sport administration program involves a minimum of 30 semester hours, which are fulfilled through 18 hours of required courses, $6-9$ hours of electives and $3-6$ hours of an internship or research project. The program was designed utilizing the guidelines recommended by the North American Society for Sport Management (NASSM) and is currently listed on the NASSM Registry for Accreditation.

The 18 hour required core curriculum includes the following courses: Principles of Management in Sport Administration; Sport Research and Statistics; Sport Administration Seminar; Sport Administration: Marketing; Sport Administration: Finance; and Legal and Ethical Issues in Sport.

Additional courses are chosen from a wide range of electives, including courses such as Personnel Issues in Sport Management; NCAA: Rules, Regulations, and Policies; Women and Sport; Public Relations and Communication in Sport; and Administration of Fitness and Wellness Programs.

A three semester hour internship, six semester hour internship, or a research project is required, depending on each student's individual background and career goals. The internship may be taken after a student has successfully completed 15 semester hours. Internships are planned and supervised learning activities which take place in a sport administration related environment. The student will be supervised by a sport management practitioner. There is no comprehensive exam.

The program is designed to be accessible to full-time or part-time students. Classes are held in the evenings. Students may be admitted to the program in any semester. Contact the Office of Graduate Services, 312 Elet Hall at (513) 745-3360 for further information or an application packet.

## POST MASTER'S CLINICAL COUNSELING ENDORSEMENT PROGRAM

The Clinical Counseling Endorsement Program consists of 21 semester hours to prepare postmaster's degree professionals with the academic experiences necessary to fulfill the educational requirements for the Ohio License in Clinical Counseling (LPCC) or the Kentucky Professional Counselor Certificate. This program is not designed to lead to an additional academic degree.

After completion of the academic requirements of 60 semester hours, a candidate may sit for the State administered Counselor Exam. After successful completion of the examination and two years of supervised counseling experience, the person becomes eligible for Licensed Professional Clinical Counselor status.

# THE DEPARTMENT OF HEALTH SERVICES ADMINISTRATION 

email address is xumhsa@xavier.xu.edu<br>The Department of Health Services Administration offers a Master of Health Services Administration (MHSA) degree.

## FACULTY

Faculty:DR.LUDKE, chair; DR. BOCKLET,DR.GEROWITZ,DR.GUO,DR.HANKINS, DR. MacDOWELL, DR. REAMY, DR. SCHICK

Adjunct Faculty: MR. BAYOWSKI, MS. HARPSTER, MS. LANSBERRY, DR. REED, DR. SEXTON, DR. WEINSTEIN, MR. WELLINGHOFF

## MASTER OF HEALTH SERVICES ADMINISTRATION DEGREE

The Graduate Program in Health Services Administration is committed to meeting the need for effective leadership of the rapidly changing health care system. Academic work and field experiences are designed to provide students with the necessary cutting-edge conceptual, analytical , and interpersonal skills, particularly in the areas of team development, systems improvement, quantitative analysis, information systems, strategic planning, financial strategization, and ethical decision-making. The Graduate Program is accredited by the Accrediting Commission on Education for Health Services Administration (ACEHSA).

Upon graduation, students obtain managerial leadership positions in a variety of health care organizations, including academic medical centers, community hospitals, managed care organizations, medical group practices, insurance companies, long-term care facilities, public health agencies, consulting firms, and governmental policy-making and regulatory agencies. The 1,400+ members of the Graduate Program's Alumni Association are located throughout the United States and in nine foreign countries and provide a broad range of services to graduates throughout their careers.

## Admission Requirements

A bachelor's degree from an accredited school is required of all applicants. Students are admitted to the Graduate Program if they are considered academically qualified and are able to demonstrate potential in the development of analytical, creative problem solving, communication, interpersonal, and leadership skills. Applicants are generally considered academically qualified for acceptance into the Graduate Program if the total of their (undergraduate GPA x 200) + (GMAT equivalent total score) $>1100$. Two letters of recommendation, a resume, and a statement of intent must be included with the application. Applicants who are considered qualified for admission are required to have a formal interview before they are accepted for admittance. Prior to matriculation, students should have a basic understanding of accounting, economics, and statistics.

The Graduate Program places a strong emphasis on the potential to contribute to and succeed in the field of health services administration. The admissions committee looks for more than academic qualifications. Interpersonal, communication and creative problem solving skills, work experience, community involvement, and personal commitment are considered essential in the assessment of an applicant for admission.

## Prerequisites

There is no prerequisite coursework required prior to matriculation in the Program. Incoming students are strongly encouraged to have a basic understanding of accounting, economics, and statistics, and to be competent with word processing and spreadsheet computer software. Students who have not taken appropriate undergraduate or graduate coursework in these areas may be required to take additional coursework in the Program.

## Program Options

The MHSA degree may be obtained through one of two options. The first option is the fulltime program, which involves four consecutive semesters, including the summer semester, of full-
time academic study on the Xavier campus, followed by an eight to twelve month administrative residency in a health care facility. The second option is the evening program for the working professional. Under this option, students complete nine consecutive semesters, including the summer semesters, of didactic work on campus, while simultaneously pursuing an administrative practicum in their place of employment or another institution. Under both options, students are required to complete an integrative master's project during their administrative residencies/ practica.

## Curriculum

A total of 60 credit hours must be completed to fulfill the requirements of the MHSA degree: 50 credit hours of didactic coursework and 10 credit hours of administrative residency/practicum and master's project. Coursework is taken in seven component areas:

## I. Leadership and Executive Development <br> * Executive Development I <br> * Executive Development II <br> * Executive Development III <br> * Executive Development IV

## II. Organizational Behavior

* Managerial Concepts in Health Care Organizations

Health Care Organizations

* Theory in Planning and Strategic Management
* Cases in Strategic Management Marketing in Health Care Organizations
III. Systems Analysis
* Quantitative Methods for Health Care Management Operations Research in Health Care Management
* Continuous Quality Improvement Techniques in Health Care Management Advanced Quality Improvement Methods
IV. Economics and Finance
* Health Economics Health Care Financial Accounting Reimbursement Systems
* Corporate Finance for Health Care Organizations
* Management Accounting for Health Care
* Financial Management for Health Care Organizations
V. Political, Legal, and Ethical Issues Politics in Health Care
* Health Policy and Policy Analysis
* Ethical Issues in Health Care Corporate Ethical Issues in Health Care
* Health Care Legal Aspects
VI. Health Care Organization and Delivery
* Health Care Systems
* Clinical Processes for Health Care Administrators
* Community Health and Medical Care Analysis Ambulatory and Managed Care Systems Aging in Our Society Administration of Agencies Serving the Aged Administration of Institutions Serving the Aged Issues in Health Care
VII. Integration and Synthesis
* Institutional and Community Analysis
* Practicum in Executive Development
* Master's Project I
* Master's Project II
* Required Course

Elective coursework may be taken in the Graduate Program, in other departments within Xavier University, and through the Greater Cincinnati Consortium of Colleges and Universities.

## Administrative Residency

The administrative residency provides an eight to twelve month "real world" experience in an organizational setting of the student's own choosing under the preceptorship of senior management. During the residency, students apply the knowledge and skills mastered in the classroom to an administrative work environment. The administrative residency serves as an opportunity not only to learn the actual practice of management, but also for creating mentor relationships.

## Master's Project

Each 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.

## Academic Standing

Students with less than a 3.000 undergraduate grade point average (on a 4.000 scale) will be admitted to the Graduate Program in Health Services Administration on a conditional basis. Conditionally-admitted students who do not achieve a 3.000 graduate grade point average in their first semester are subject to dismissal at the end of that semester.

Students who have a cumulative grade point average of less than 3.000 at the end of any semester will be placed on academic warning. Students on academic warning who do not achieve a 3.000 cumulative grade point average in the following semester are subject to dismissal from the MHSA degree program. Students on academic warning will not be able to pursue a residency placement.

Students with two unacceptable grades ( $D$ or $F$ ) in any semester are subject to dismissal from the MHSA program.

A curnulative graduate grade point average of 3.000 is required for graduation.

## Long-Term Care Administration

Students may pursue a concentration in long-term care administration, which is recognized by the Ohio State Board of Examiners of Nursing Home Administrators as fulfilling the prerequisites for taking the licensure examination.

The concentration requires 64 graduate credit hours, including the required core of didactic coursework plus nine credit hours of long-term care coursework:

> HESA 525 Aging in Our Society
> HESA 535 Administration of Agencies Serving the Aged
> HESA 545 Administration of Institutions Serving the Aged

Each student is required to complete a minimum eight month administrative residency/ practicum in a long-term care facility and a master's project as a condition for graduation.

## Dual Degree Program

Students have the option of obtaining dual master's degrees in Health Services Administration and Business Administration (MHSA/MBA). Normally, one additional semester of study is required provided the student has the appropriate undergraduate business administration coursework. The program of study requires 81 graduate credit hours: 41 credit hours of MHSA coursework, 30 credit hours of MBA coursework plus necessary prerequisites, and 10 credit hours of administrative residency/practicum. Candidates must apply and be accepted to both programs. Upon completion, the student receives two separate degrees.

## Additional Information

Additional information about the full-time or evening program, including tuition and fees, is available upon request from the Graduate Program in Health Services Administration office by calling (513) 745-1912 or visiting our web site www.xu.edu/depts/mhsa.

## THE DEPARTMENT OF NURSING

The Department of Nursing offers a Bachelor of Science in Nursing degree that includes an upper division option for registered nurses. The department also offers the Master of Science in Nursing degree.

FACULTY<br>Faculty: DR.SCHMIDT, acting chair; DR. AUGSPURGER, MS. KING, MS. LANIG, DR. McKOY, MS. MILLER, MS. NAMEI, MS. PROFFITT, MS. RIEG, MS. SCHMID<br>All students must present evidence of the following prior to entrance in all clinical courses:<br>1. Liability insurance $(\$ 2,000,000 / \$ 4,000,000)$, purchased through the University and billed to student's account.<br>2. Current CPR certification<br>3. Health history and required physical examination form<br>4. MMR immunization<br>5. Yearly tuberculosis skin test (two-step)<br>6. Hepatitis B series<br>7. Proof of current health care coverage<br>8. RN licensure in the State of Ohio (for B.S.N.-R.N. option and Master's students only).<br>Students are responsible for these expenses as well as for uniforms and transportation costs to, from, and while in cooperative teaching units. Students must provide their own transportation between campus and clinical agencies.

## BACHELOR OF SCIENCE IN NURSING DEGREE

The Bachelor of Science in Nursing program is designed for the student who is interested in becoming a professional nurse. The graduate is prepared to meet the health care needs of diverse populations in an ever-changing, highly technical health care environment. The program is focused on an innovative health and wellness model and educates nurses in the skills of communication, coordination and cooperation with other health care professionals, in a variety of community settings. Students are able to complete a program of study leading to the degree of Bachelor of Science in Nursing (B.S.N.) in four years. Registered Nurses can complete the upper division nursing courses for the R.N.option in three semesters, once the prerequisite and corequisite courses are completed. Prelicensure students will be qualified to sit for the Registered Nurse Licensure examination following their successful completion of the program.

The four-year program requires 132 credits for graduation. The University's core curriculum requirements complement the nursing curriculum. This approach to education enables students to develop critical thinking and communication skills essential in today's complex health care environments. The prescribed sequence of courses can be found on the departmental advising sheets available in the Department of Nursing Office.
Requirements for the Nursing Major
Prerequisite or Concurrent Nom-Nursing Courses
70 credits plus one nursing course of the following courses fulfill the University Core
Liberal Arts

Social/Behavioral Sciences
Sociology 3
Psychology ..... 3

## Major Requirements

62 hours of nursing courses: NURS 130, 132, 224, 225, 230, 231, 360, 361, 364, 370, 372, $373,470,471,472,473$, and 498; and a nursing elective.

Nursing courses begin in the first year. Courses in the major must generally be taken in a predetermined sequence. A cumulative GPA of 2.500 is required to enter the second year nursing courses. The progression of learning opportunities is based on the foundation of knowledge in prior coursework. Students who wish to transfer may take the first year nursing courses in the summer before they enter the second year nursing courses.

| B.S. in Nursing |  |  |  |
| :--- | :---: | :---: | :---: |
| This block serves as a guideline for progress toward a degree. See your academic adviser. <br> Credit Hours |  |  |  |
| First Semester Second Semester$\quad$ Crecit Hours |  |  |  |
| Freshman Year |  |  |  |
| BIOL 140, Human Anatomy \& Phy I * ...... 3 |  |  |  |

## Sophomore Year

CHEM 150, Physiological Chemistry * ...... 3 NURS 364, Pathophysiology ..... 3
CHEM 151, Physiological Chemistry Lab* 1 BIOL 200, Microbiology * ..... 3
PHIL 290, Theory of Knowledge BIOL 201, Microbiology Lab * ..... 1
History I 3 History II ..... 3
NURS 224, Nursing Therapeutics I 4 NURS 230, Nursing Therapeutics II ..... 4
NURS 225, Nursing Therapeutics I Pract ..... 2
NURS 231, Nursing Therapeutics II Pract .. ..... 2
Total 16 Total ..... 16
Junior Year
Foreign Language Elective 3 Foreign Language Elective ..... 3
MATH 116, Elementary Statistics * 3 ENGL/CLAS 205, Lit \& the Moral Imag ..... 3
Literature Elective
4 NURS 372, Families in Transitions ..... 3
NURS 360, Adult Transitions 4 NURS 373, Families in Transitions Pract ..... 4
NURS 361, Adult Transitions Practicum 17 Total ..... 17
Senior Year
Philosophy Elective ..... 3
Theology Ethics or Rel/Cult Elective ..... 3
Fine Arts Elective 3 NURS 472, Common Transitions: Org ..... 4
Theology Scrip/Hist or Christ Sys Elective ..... 3
NURS 470, Community Health Nursing ..... 4
NURS 473, Cormmon Transitions: Organizations Practicum ..... 4
NURS 471, Comm Hlth Nurs Practicum 4 NURS 498, Senior Nursing Seminar ..... 3
Nursing Elective .....  3
Total 17 Total ..... 17
*These courses must be taken in the semester indicated. +This course also fulfills the Cultural Diversity Elective.

Note: E/R\&S Focus Elective requirement may be fulfilled by a variety of courses - consult the E/R\&S Focus Elective list on page 93 of this catalog.

The nursing elective may also be taken any time after the completion of all 200 level nursing courses.

Scheduling Notes:

- Consult the Undergraduate Core Curriculum description on page 93 of the Catalog.
- The $E / R \& S$ Focus Elective requirement may be used to satisfy another element of the Core or the major.
- A minimum of 132 credit hours is required for the degree.


## BACHELOR OF SCIENCE IN NURSING DEGREE

## (Registered Nurse Option)

This NLN accredited upper division option is 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 natural and behavioral science courses as prerequisites. 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 for the Nursing Major

1. Meet Xavier University's requirement of 120 credit hours for graduation. Twentynine credits of nursing courses: NURS 320, 330, 332, 334, 340, 350, 420, 440, 441, 442, 443, 450 and a nursing elective.
2. Achieve an overall grade point average of 2.500 for entrance to the 300 and 400 level nursing courses and a grade of " $C$ " or better in the natural sciences and nursing courses.

Ererequisite Courses* 48 hours
Natural Sciences/Mathematics Anatomy and Physiology ** .......... 8
Microbiology ** ............................ 4
Chemistry ** ................................ 8
Computer Science .......................... 1
Elementary Statistics+ ................... 3
Social/Behavior Sciences
General Psychology ** .................. 3
Introduction to Sociology ** .......... 3
Developmental Psychology **....... 3
Fistory ** ..................................... 3
Liberal Arts
Introduction to Theology ................ 3
PHIL 100, Ethics as Intro to Phil ... 3
ENGL 101 or 1 15, Engl Comp or Rhetoric ** 3
ENGL/CLAS 205, Lit \& the
Moral Imag ................................. 3
B.S.N. Courses 72 hours

Natural Sciences
Advanced Physiology .................... 3
Social/Behavioral Sciences
Psychology (upper division) ........... 3
Sociology (upper division) ............ 3
Nursing Courses
Entry level baccalaureate credit ... 16
$300 \& 400$ level nursing courses .. 29
Liberal Arts
Theology Elective .......................... 3
Medical Ethics ............................... 3
Fine Arts ....................................... 3
General Electives ................................. 9
$+\quad$ Prerequisite courses for NURS 330.

* All courses must be completed prior to entry in 300 and 400 level nursing courses.
** May be waived by establishment of credit through challenge examinations.

| B.S. Nursing | R.N. option) |
| :---: | :---: |
| First Semester Credit Hours | Second Semester Credit Hours |
| Junior Year |  |
| BIOL 340, Advanced Physiology ............. 3 | Theology Elective (upper division) ............ 3 |
| Psychology (upper division) ..................... 3 | NURS 320, Professional Development I .... 3 |
| PHIL 329, Medical Ethics ........................ 3 | NURS 334, Dec Making in Nurs Practice ... 3 |
| Sociology (upper division) ....................... 3 | NURS 330, Intro to Nursing Research ....... 3 |
| NURS 332, Cult Infl on Health \& Care ...... 2 | NURS 340, Basic Phy Assess Practicum ..... 1 |
| Total .................................................... 14 | Total ..................................................... 13 |
| Senior Year |  |
| Fine Arts Elective ................................... 3 | General Electives ................................... 6 |
| General Elective ..................................... 3 | NURS 442, Nursing \& Community Hith ..... 2 |
| NURS 440, Nursing \& Family Health ....... 3 |  |
| NURS 441, Nurs Practice \& Application I . 2 | Application II Practicum ......................... 2 |
| NURS 350, Mgmt of Nursing Care I ......... 2 | NURS 420, Professional Development II ... 2 |
| Nursing Elective ...................................... 2 | NURS 450, Mgmt of Nursing Care II ......... 2 |
| Total .................................................... 15 | Total ..................................................... 14 |

Scheduling Notes:

- Consult the Undergraduate Core Curriculum description on page 93 of the Catalog.
- The E/R\&S Focus Elective requirement may be used to satisfy another element of the Core or the major.
- A minimum of 120 credit hours is required for the degree.


## MASTER OF SCIENCE IN NURSING DEGREE

The program leading to the Master of Science in Nursing degree (M.S.N.) is designed to provide advanced level preparation in the concentration of nursing administration. Graduates are expected to exert moral and ethical leadership for the improvement of nursing practice and in the investigation and resolution of nursing issues and problems. The program also provides a theoretical and practical base for doctoral study.

## Program of Study

The curriculum consists of a minimum of 36 semester hours: 18 hours are specified for core nursing courses and 18 credits are designated for the concentration. The curriculum can be completed within four years or less on a part-time basis.

Core Courses -18 hours
NURS 501 Theoretical Bases for Nursing (3)
NURS 502 Nursing Research (3)
NURS 503 Epidemiologic Methods in Health Care Services (3)
NURS 505 Health Care Informatics (3)
NURS 507 Resources Management (3)
NURS 690 Health Care Policy and Issues (3)

- Nursing Administration Courses - 18 hours

NURS 630 Nursing Administration Theory I (3)
NURS 631 Nursing Administration Practicum I (2)
NURS 632 Nursing Administration Theory II (3)
NURS 633 Nursing Administration Practicum II (2)
NURS 636 Financial Management for Nursing Administration (3)
NURS 797 Project (2)
Nursing/cognate Elective (3)

## Admission Requirements

Applicants to the M.S.N. program should meet the following minimum criteria:

1. An overall GPA of 2.800 (on a 4.000 scale) from an N.L.N. accredited baccalaureate nursing program.
2. Completion of undergraduate courses in elementary statistics and introduction to research.
3. Satisfactory performance on the Miller Analogies Test (MAT).
4. Licensure to practice nursing in the state of Ohio (evidence prior to entering courses with a clinical component).
A personal interview with a nursing faculty member is highly recommended. Applicants not meeting above requirements will be considered on an individual basis.

## Application Procedures

The following materials must be submitted:

1. Completed graduate degree application form, along with current application fee.
2. The special application form for admission to the Department of Nursing.
3. Two copies of an official transeript (with seal) from each college and university (and hospital nursing program if applicable) attended.
4. Scores on the Miller Analogies Test.
5. Three letters of recommendation, preferably at least one from an undergraduate faculty member (if graduated within the last five years) and one from a current employer. Forms are provided in application package.

The cost of tuition and fees for the nursing programs is made available yearly in a brochure distributed by the Xavier University Office of Admission. Information on the current costs is reported to and made available from the National League for Nursing Accrediting commission, 350 Hudson Street, New York, NY 10014. This agency can be reached by calling (800) 669-1656.

# THE DEPARTMENT OF OCCUPATIONAL THERAPY 

The Department of Occupational Therapy offers the Bachelor of Science degree in Occupational Therapy and a Post-Baccalaureate Certificate in Occupational Therapy in partial fulfillment of a Master of Education Degree.

The Occupational Therapy Program is accredited by the Accreditation Council for Occupational Therapy Education (ACOTE) of the American Occupational Therapy Association (AOTA), located at 4720 Montgomery Lane, P.O. Box 31220, Bethesda MD 20824-1220. AOTA's phone number is (301) 652-AOTA. Graduates of the program will be able to sit for the national certification examination for the occupational therapist administered by the National Board for Certification in Occupational Therapy (NBCOT). After successful completion of this exam, the individual will be an Occupational Therapist, Registered (OTR). Most states also require licensure in order to practice; however, state licenses are usually based on the results of the NBCOT Certification Examination.

## FACULTY

Faculty: MS ESTES, interim chair; MS. MILLER, MS. SARBAUGH, MS. SCHEERER Adjunct Faculty: MR. GORTNER, MR. BOCHENEK, MS. PRANTL Lab Technician: MS. KEMPF

## OCCUPATIONAL THERAPY

Occupational therapy, or "O.T." as it is often called, is a health-care profession that uses occupation, or purposeful activity, to help those individuals whose abilities to cope with the tasks of daily living are impaired by developmental differences, physical injury, illness, or psychological disability. "Occupation" refers to all activities in which people (children, adults, or the elderly) engage in productively occupying their time and interest, including self-care, home management, social, work-related, or community and leisure activities.

Occupational therapists evaluate function through an analysis of human performance, relationships, and situations. They engage a person in experiential learning and problem solving activities. Through occupational therapy, people are guided in the acquisition of adaptive skills which may help them to increase independence, or enable then to resume a more productive and satisfying role in society.

Occupational therapists need to be both people-and science- oriented. They must be creative, innovative, and well trained in the functions of mind and body. They work in hospitals, schools, nursing homes, and home health programs as employees of public or private institutions or as private practitioners. Specialties within the field include gerontology, pediatrics, developmental disabilities, mental health, prosthetics training, spinal cord rehabilitation, school-based practice, and work hardening. Most graduates serve primarily as clinicians, but many complete additional education and serve as occupational therapy educators, administrators, or researchers.

## DEPARTMENTAL ADMISSION REQUIREMENTS

Students must meet the following minimum criteria to be considered for admission to the Occupational Therapy program. Please note these are minimum criteria used for screening purposes, completion of which do not guarantee admission to the program. Admission is competitive.

## Bachelor's Degree Students

- Have a cumulative grade point average of 2.800 or better on a 4.000 grading scale for completed college work.
- Complete at least 30 credit hours of basic liberal arts courses, including the specific prerequisites before entering the program.
- Apply for admission to the University (see catalog for general university international admission requirements).
- Submit standardized admissions test scores (SAT/ACT).


## Post-Baccalaureate Certificate/Master's in Education Students

- Have a bachelor's degree from an accredited college. Transcript(s) of this work must be submitted.
- Have a cumulative grade point average of 3.000 or better on a 4.000 grading scale in the bachelor's degree.
- Apply for admission to the University (see catalog for graduate admissions requirements).
- Submit standardized admissions test scores (GRE).


## All Students

- Completion of the following prerequisite course work. A student may receive a grade of " C " in no more than two of these prerequisite courses. All remaining grades in these prerequisite courses must be "A" or "B". These courses must be completed or in process prior to the OT program application deadline of February 1st.
English composition or rhetoric
General psychology
College math or pre-calculus
Anatomy and physiology - two courses, with lab.
- Documented exposure to the field of occupational therapy which would be accomplished through volunteer or paid work experience in an occupational therapy clinic or work setting. A minimum of 20 hours of supervised experience will be required prior to program application deadline. Documentation must be on the Department Recommendation/Volunteer Experience Form, which is included in the OT Admission Packet. This form must be completed by a licensed occupational therapist who supervises the student, and must be submitted on the original form. No photocopies of the form will be accepted.
- Submission of an "Application for Admission to the Occupational Therapy Program" form to the Department of Occupational Therapy. The form must be received by February 1 for admission in the following fall semester, and will not be reviewed until the student has been accepted by the University and the above materials received.
- Applicants who are certified occupational therapist assistants must be in good standing with the state occupational therapy licensing board.
- Successfully complete an on-site writing sample and interview conducted by the Occupational Therapy Department Admissions Committee.


## BACHELOR OF SCIENCE IN OCCUPATIONAL THERAPY DEGREE

[^4]- 9 hours of philosophy (PHIL 100, 290, 329)
- 9 hours of theology (THEO 111, plus two other required theology core courses)
- 3 hours of literature
- 3 hours of Literature and the Moral Imagination (ENGL 205 or CLAS 205)
- 6 hours of history
- 6 hours of modern language

Major Requirements

- 65 hours of occupational therapy courses with a 2.800 cumulative GPA required: OCTH 101, 143, 201, 302, 303, 304, 305, 306, 307, 308, 31 1, 312, 315, 325, 391, 401, $402,403,404,406,407,408,410,417,418,435,492,494$;EDAT 386 and 387; BIOL 204.

Transfer students who are Certified Occupational Therapy Assistants may be waived from several of the above courses with permission of the department chair.

Students may be admitted to the occupational therapy bachelor's programin their sophomore year, after completing the prerequisite 30 hours of undergraduate study listed above. In their sophomore year they would take OCTH $101,143,201$ and 302 . The following courses must also be completed before taking 300 or 400 level courses in the O.T. major:

- Kinesiology
- Neuroscience
- General statistics

Occupational therapy major courses must generally be taken in numerical sequence, although some would normally be taken concurrently, as the progression of learning experiences is based on foundation knowledge in prior course work.

## B.S. Occupational Therapy

This block serves as a guideline for progress toward a degree. See your academic adviser.

| First Semester Credit Hours | Second Semester Credil Hours |
| :---: | :---: |
| Freshman Year, Pre-OT |  |
| ENGL 101 or 115, Engl Comp or Rhetoric *3 | BIOL 142 Anatomy \& Phys. II *............... 3 |
| BIOL 140, Anatomy \& Phys. I * ............... 3 | BIOL 143 Anatomy \& Phys. II Lab *........ 1 |
| BIOL 141, Anatomy \& Phys. I Lab * ........ 1 | THEO 111, Theological Foundations ......... 3 |
| PSYC 101, General Psychology *............. 3 | History II ............................................. 3 |
| History I............................................. 3 | Forcign Language Elective ...................... 3 |
| Foreign Language Elective ...................... 3 | MATH 150, Calculus or equivalent * ......... 3 |
| Total ................................................ 16 | Total................................................. 16 |
| Year Total: 32 hours <br> *Program prerequisites should be completed or in process prior to OT application deadline. |  |
|  |  |
| Sophomore Year |  |
| OCTH 101, Concepts and Philosophy * ..... 3 | PHIL. 290, Theory of Knowledge .............. 3 |
| OCTH 143, Developmental Process: .......... 3 | OCTH 201, Human Occupation ................ 3 |
| Physical and Psyc or PSYC 23I Dev. Psyc (if still need to fulfill social science core elec.) | OCTH 302, Measurement Application ........ 3 <br> BIOL 204, Neuroscience $\qquad$ |
| PHIL 100, Ethics as Intro to Philosophy ..... 3 | Literature Elective .................................. 3 |
| MATH 156, General Statistics .................. 3 | OCTH 311, Therapeutic Occupations: ....... 3 |
| PHYS 160/161 (recommended; beginning Fall 1998 is required) | Creative/Industrial |
| Cultural Diversity Elective ....................... I |  |
| Total ................................................. 17 | Total.................................................... 18 |
| Year Total: 35 hours <br> * Pre-OT or undecided students may register for OCTH 101 (but no other OCTH course) as space permits. |  |
|  |  |


| Junior Year |  |
| :---: | :---: |
| Theology Scrip/Hist or Christ Sys Elective 3 | OCTH 312, Therapeutic Occupations...... |
| ENGL/CLAS 205, Lit \& the Moral Imag ... 3 | Verbal/Large Motor |
| OCTH 303, Disabling Conditions I: ........... 3 | OCTH 325, Level I Field |
| Biochemical/Psychosocial | OCTH 307, Disabling Conditions II: .......... 3 |
| OCTH 304, OT Theory \& Practice I: ......... 3 | Neurodevelopmental/Neurological |
| Biochemical/Psychosocial | OCTH 308, OT Theory \& Practice II: ........ 3 |
| OCTH 391, Practice Lab I - Biochem/Psyc | OCTH 492, Pract. Lab II; Neurodev Neuro |
| OCTH 305, Intro to Clinical Practice .......... 2 | Neurodevelopmental/Neurological |
| OCTH 315, Level I Field Work | Fine Arts Elective |
| OCTH 410, Special Topics | EDAT 386/387, Kinesiology \& Lab ........... 3 |
| Total .................................................... 17 | Total.................................................... 17 |
| Year Total: 34 hours |  |
| Senior Year |  |
| OCTH 306, Contemporary Tech. Lab | OCTH 403, Professional Issues Seminar .... 2 |
| OCTH 401, Disabling Conditions III: ........ 3 | Theology Ethics or Rel/Cult Elective ......... 3 |
| Biomechanical/Rehabilitative | OCTH 418, Research Application Lab ....... 1 |
| OCTH 402, OT Theory \& Practice III: ....... 3 | E/R\&S Focus Elective ** ......................... 3 |
| Biomechanical/Rehabilitative | OCTH 406, Management of OT Services ... 4 |
| OCTH 494, Pract, Lab III: Biomech/Rehab | OCTH 410, Special Topics + ................. 1,1 |
| OCTH 435, Level I Field Work |  |
| OCTH 404, Research Method ................... 3 |  |
| OCTH 417, Research Application Lab |  |
| PHIL 329, Medical Ethics ** .................... 3 |  |
| Total .................................................... 18 | Total ................................................... 15+ |
| Year Total: 34+ hours |  |
| + Special Topics in OT: 3 one credit hour occupational therapy electives are required and may be taken in either the junior or senior year of the curriculum. Topics vary each semester. ** Medical Ethics is recommended to fulfill the E/R\&S Focus Elective. |  |
| Level II fieldwork assignments will be assigned using a lottery system. Successful completion of all coursework is required before starting Level II fieldwork. |  |
| OCTH 407, Level II Fieldwork: first 3 month internship .................................................. 3 |  |
| OCTH 408, Level II Fieldwork: second 3 month internship .............................................. 3 |  |
| OCTH 409, Level II Fieldwork: optional, elective third internship 3 $\qquad$ <br> Total credits $=\mathbf{1 4 0}$ credit hours for bachelor (+ * optional OT electives) |  |
| Scheduling Notes: |  |
| - Consult the Undergraduate Core Curriculum description on page 93 of the Catalog. <br> - The E/R\&S Focus Elective requirement may be used to satisfy another element of the Core or the major. <br> - A minimum of $\mathbf{1 4 3}$ credit hours is required for the degree. |  |

## POST-BACCALAUREATE CERTIFICATE PROGRAM

Requirements for the Occupational Therapy Certificate<br>Prerequisite or Concurrent Courses Outside the Department<br>Science requirement: 11 hours<br>- Biology: Human anatomy and physiology with labs, (BIOL 140-143)*, Neuroscience (BIOL 204)<br>Social Sciences requirement: 3 hours<br>- General psychology (PSYC 101)*<br>Mathematics requirement: 6 hours<br>- Mathematics (MATH 150 or equivalent)*<br>- General Statistics (MATH 156) or Statistical Techniques (EDCL 510)<br>Other Requirements: 9 hours<br>- Philosophy (PHIL 329, Medical Ethics)<br>* English composition or rhetoric (ENGL 101 or 115)*<br>- Advanced Kinesiology (EDAT 586)<br>* These courses, or equivalent transfer credit, are prerequisites to admission to the Occupational Therapy program. The other requirements listed above can be taken after adrnission, concurrent with 100 or 200 level occupational therapy courses, but must be completed prior to entry in 300 or 400 level courses in the Occupational Therapy program.<br>Major Requirements<br>- 62 hours of occupational therapy courses: OCTH 414, 415, 425, 433, 434, 440, 441, $442,443,444,446,447,448,451,452,461,462,463,464,466,467,468,470,477$, $478,480,491,493,495$

Transfer students who are Certified Occupational Therapy Assistants may be waived from several of the above courses with permission of the department chair. (Agreement with Certified Occupational Therapy Assisting Program).

Occupational therapy courses usually must be taken in numerical sequence, with some taken concurrently, as the progression of learning experiences is based on foundation knowledge in prior course work. The following courses must be completed before taking OCTH 300 or 400 level courses: MATH 156, General Statistics; OCTH 434, Developmental Process: Physical and Psychological; BIOL 140-143, Human Anatomy and Physiology; and BIOL 204, Neuroscience.

## All students must present evidence of the following items to the fieldwork coordinator prior to the entrance to clinical field work:

1. Liability insurance ( $\$ 1,000,000 / \$ 5,000,000$ ), purchased through the University and billed to student's account
2. Current CPR certification (necessary for Level II Fieldwork)
3. Health history and required physical examination form (for Level II Fieldwork)
4. MMR immunization (for all Level II and some Level I)
5. Yearly tuberculosis skin test (two-step)
6. Hepatitis B series or waiver
7. Proof of personal health insurance prior to Level II Fieldwork

Students are responsible for these expenses as well as for uniforms and transportation cost to, from, and while in clinical sites. Students must provide their own transportation between campus and clinical agencies. Students must be able to relocate out of the Cincinnati area for 3-6 months during the Level Two Fieldwork experiences due to limited clinical sites locally. Also, students should be advised that some sites may require a drug screening test. Level II fieldwork must be completed within 24 months of the academic coursework on campus.

The University will make every effort to accommodate qualified students with disabilities and will not enter into a contractual agreement with any fieldwork agency which discriminates on the basis of disability or is unable to make reasonable accommodations. Despite this commitment, the University cannot guarantee the availability of fieldwork to otherwise qualified disabled applicants.

Prospective students who have been (or become) convicted of a felony should contact the American Occupational Therapy Certification Board (AOTCB) to determine the potential impact on their ability to obtain licensure. The address and telephone number of AOTCB are available from the Occupational Therapy Department.

## Requirements for retention within the Occupational Therapy Bachelor of Science and Certificate Programs

1. Academic standing: a 2.800 cumulative average must be attained in all occupational therapy required courses. A student must obtain a grade of "C" or higher in each professional course or support prerequisite course (such as kinesiology, neuroscience, medical ethics or statistics) for that course to be counted as credit for the program or as a prerequisite for another professional course. A student who earns a grade of less than "C" in a professional class must repeat that class and achieve a grade of "C" or higher. Students can repeat only one required preprofessional or departmental course, and that course only once, to attain a grade of " C " or better.
2. Professional and ethical behavior: the student must manifest emotional and behavioral characteristics which, in the judgement of the department faculty, will not jeopardize his/her professional competence, or the ethical standards of occupational therapy. The department may refuse to permit a student to continue in the curriculum if at any time it is deemed by a review committee that the student will not be able to perform at a professional level.

# COMBINED MASTER OF EDUCATION DEGREE AND POST-BACCALAUREATE CERTIFICATE PROGRAM IN OCCUPATIONAL THERAPY 

## Prerequisites to submission of OT Program Application

BIOL 140, Human Anat. \& Phys. I

$\qquad$
3 BIOL 142, Human Anat. \& Phys. II ..... 3
BIOL 141, Human Anat. \& Phys I Lab 1 BIOL 143, Human Anat. \& Phys. II Lab ..... 1
PSYC 101, General Psychology EDCL 510, Statistical Techniques3
ENGL 101, English Composition ..... 3
Prerequisites should be completed or in process prior to OT program application deadline of February 1.
M.Ed. \& Post-Baccalaureate Certificate Program in OT

| First Semester Credit Hours | Second Semester Credit Hours |
| :---: | :---: |
| Preliminary Professional Year |  |
| OCTH 434, Developmental Process: ......... 3 | OCTH 442, Measurement Application ....... 3 |
| Physical \& Psychological | OCTH 441, Human Occupation ................ 3 |
| *OCTH 433, Occupational Therapy .......... 3 | BIOL 204, Functional Neuroscience .......... 3 |
| Concepts \& Philosophy | EDFD 503, Advanced Educ. Psyc. ............. 3 |
| EDFD 501, Philosophy of Education .......... 3 | Education Elective (Optional) ................... 3 |
| Education Elective (optional) ................... 3 | OCTH 480, Professional Seminar.............. 0 |
| OCTH 480, Professional Seminar ............. 0 | OCTH 451, Therapeutic Occupations: ........ 3 <br> Industrial/Creative |
| Total .............................................. 9-12 | Total............................................. 15-18 |
| Year Total: 24-30 hours |  |
| * Pre-OT or undecided students may register fo | CTH 101 (but no other OCTH course) as space |

permits.
M.Ed. \& Post-Baccalaureate Certificate Program in OT, continued

First Semester
Credit Hours Second Semester
Credit Hours

| Core Professional Curriculum - Second Year |  |
| :---: | :---: |
| PHIL 329, Medical Ethics or ..................... 3 |  |
| Ethical Issues in Health Ca |  |
| CTH 443, Disabling Conditions I: |  |
| Biochemical/Psychosocial | OCTH 447, Disabling Condition |
| CTH 444, O'T Theory \& Prac | Neurodevelopmental/Neurological |
|  | CTH 448, OT Theory \& Practice II. |
| OCTH 491, Practice Lab I: | Neurodevelopmental/Neurological |
| Biochem/Psychosoc. | OCTH 493, Practice Lab II: |
| OCTH 414, Intro. to Clinical | Neurodevelopmental/Neurologic |
| OCTH 415, Level I Field Work | CTH 480, Professional Seminar |
| EDFD 505, Education Administratio | EDAT 586, Advanced Kinesiology |
| OCTH 480, Professional Seminar .............. 0 | OCTH 470, Special Topics * |
|  | Total 15-16 |
| Ye |  |
| Core Professional Curriculum - Third Year |  |
| OCTH 461, Disabling Conditions III: ......... 3 <br> Biomechnical/Rehabilitative <br> OCTH 462, OT Theory \& Practice III: ....... 3 <br> Biomechanical/Rehabilitative <br> OCTH 495, Practice Lab III: ...................... 1 <br> Biochemical/Rehabilitative <br> OCTH 440, Level I Field Work .................. 1 <br> OCTH 446, Contemporary Technol. Lab .... 3 <br> OCTH 464, Research Methods ................... 3 <br> OCTH 480, Professional Seminar ............... 0 <br> OCTH 477, Research Application Lab ....... 1 <br> Total $\qquad$ . 15 <br> Year Total: 26 hours <br> * Special Topics in OT: 3 one credit hour occupational therapy electives are required and may be taken in either the second or third year of the core curriculum. |  |
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|  |  |
| (Normally completed after third academic year) Off-Site Block Field Placements: 6 mos. |  |
| OCTH 467, Level II Field work: first 3 month internship ..................................................... 3 <br> OCTH 468, Level II Fieldwork: second 3 month internship .................................................. 3 <br> OCTH 469, Level II Fieldwork: optional elective third internship .......................................... 3 |  |
|  |  |
|  |  |
| Total credits $=76$ credit hours in Post Baccalaureate curriculum (plus optional third Level II Fieldwork) ( +12 credit hours for M.Ed., if six hours of support courses in OT curriculum are taken at the graduate level). |  |3

OCTH 468, Level II Fieldwork: second 3 month internship ..... 3

Total credits $=76$ credit hours in Post Baccalaureate curriculum (plus optional third Level II Fieldwork) (+12 credit hours for M.Ed., if six hours of support courses in OT curriculum are taken at the graduate level).

## THE DEPARTMENT OF POLITICAL SCIENCE AND SOCIOLOGY

The Department of Political Science and Sociology offers several degrees and programs:
The Bachelor of Arts in Political Science
The Bachelor of Arts in International Affairs
The Bachelor of Arts in Sociology
The Minor in Political Science
The Minor in International Affairs
The Associate degree in Political Science
The Associate degree in Sociology
For information on the associate degrees, contact the Center for Adult and Part-time Students (CAPS).

## FACULTY

Faculty: DR. STINSON, chair; DR. HEIGHBERGER, DR. MOULTON, DR. RAY, DR. WEISSBUCH, DR. WHITE

Adjunct Faculty: MR. BEAUPRE, DR. SCHLINKERT

## BACHELOR OF ARTS DEGREE IN POLITICAL SCIENCE

Political science plays an important part in the student's liberal arts education, as well as in 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.

## Requirements for the Political Science Major

Core Curriculum Requirements (see page 93): 64 hours, including

- Social Sciences: ECON 200 and ECON 201.
- Math 116 or 156 , plus 3 hours mathemathics elective. Major Requirements:
- 30 hours of political science courses: POLI 120, 140, 277, 301, 352, either 390 or 391, and 15 hours of political science electives.
- A 2.000 cumulative average must be attained in the political science courses.

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 accomplish this, the department facilitates intern programs in Washington, D.C.; Tokyo, Japan; Oxford, England; and Cincinnati. The Political Science major provides breadth which ensures that the student is well grounded in the discipline and at the same time permits flexibility for concentration in a sub-field.

## B.A. Political Science

This block serves as a guideline for progress toward a degree. See your academic adviser.
First Semester Credit Hours Second Semester Credit Hours

Freshman Year

| History I ..................................................... 3 | History II ................................................................................................................................................................................................................................................................................................. 15 |
| :--- | :--- |


| First Semester Credit Hours | Second Semester Credir Hours |
| :---: | :---: |
| Sophomore Year |  |
| Science Elective .................................... 3 | General Elective .................................... 3 |
| ENGL/CLAS 205, Lit \& the Moral Imag ... 3 | Fine Arts Elective .................................. 3 |
| ECON 200, Microeconomic Principles ...... 3 | ECON 201, Macroeconomic Principles ...... 3 |
| Theology Scrip/Hist or Christ Sys Elective 3 | PHIL. 290, Theory of Knowledge .............. 3 |
| POLI 120, Comparative Gov Politics ......... 3 | POLI 140, American Government ............. 3 |
| Cultural Diversity Elective ....................... 1 |  |
| Total ................................................... 16 | Total....................................................... 15 |
| Junior Year |  |
| MATH 116, Elementary Statistics or | Mathematics Elective ............................. 3 |
| Math 156, General Statistics .................. 3 | POLI 301, Political Philosophy ................ 3 |
| Theology Ethics or Rel/Cult Elective ......... 3 | Philosophy Elective ............................... 3 |
| General Elective .................................... 3 | E/R\&S Focus Elective ........................... 3 |
| Political Science Elective ........................ 3 | Political Science Elective ......................... 3 |
| POLI 277, International Relations .............. 3 |  |
| Total ................................................... 15 | Total..................................................... 15 |
| Senior Year |  |
| POLI 391, Seminar in American Gov or POLI 390, Seminar in Int'l Relations .... 3 | Political Science Elective $\qquad$ 3 <br> General Electives $\qquad$ 11 |
| POLI 352, Principles of Research .............. 3 |  |
| Political Science Electives ....................... 6 |  |
| General Elective ..................................... 3 |  |
| Total ................................................. 15 | Total................................................. 14 |

Scheduling Notes:

- Consult the Undergraduate Core Curriculum description on page 93 of the Catalog.
- The E/R\&S Focus Elective requirement may be used to satisfy another element of the Core or the major.
- A minimum of 120 credit hours is required for the degree.


## REQUIREMENTS FOR THE POLITICAL SCIENCE MINOR

- 15 hours of political science courses: POLI 120, 140, 277, 301 or 350 , and an elective (not 301 or 350 ).
- A 2.000 cumulative average must be attained in the political science courses.


## REQUIREMENTS FOR THE ASSOCIATE OF ARTS DEGREE IN POLITICAL SCIENCE

Core Curriculum Requirements (see page 95): 28 hours
Concentration Requirements:

- 15 hours of political science courses: POLI $120,140,277,301$ or 350 , and an elective (not 301 or 350 ).
- A 2.000 cumulative average must be attained in the political science courses.


## BACHELOR OF ARTS DEGREE IN INTERNATIONAL AFFAIRS

## Field of Concentration <br> Business, Modern Europe, or Third World

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, government and education. Graduates in the program have the necessary prerequisites for graduate study in business, law, and foreign affairs, including diplomacy.

Internship: 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 accomplish this, the department facilitates intern programs in Washington, D.C.; Tokyo, Japan; and Oxford, England. 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.

## Requirements for the International Affairs Major

Core Curriculum Requirements (see page 93): 64 hours

- Social Sciences Requirement: ECON 200 and ECON 201.
- MATH 116 or 156 , plus 3 hours mathemathics elective.
- foreign language intermediate level proficiency

Major Requirements:

- 18 hours of political science courses: POLI 140, 277, 374, 376, 378, 379, and one course in the third world.
- 18 hours of courses inchosen concentration: Business, Modem Europe, orThird World.
- A 2.000 cumulative average must be attained in the political science and concentration courses.


## B.A. International Affairs

This block serves as a guideline for progress toward a degree. See your academic adviser. (Field of Concentration - Modern Europe or Third World)

| First Semester Credit Hours | Second Semester Credit Hours |
| :---: | :---: |
| Freshman Year |  |
| ENGL 101 or 115 , Engl Comp or Rhetoric. 3 | Literature Elective................................... 3 |
| Foreign Language Elective ....................... 3 | Foreign Language Elective ....................... 3 |
| History I .................................................. 3 | History II ................................................. 3 |
| THEO 111, Theological Foundations ........ 3 | PHIL 100, Ethics as Intro to Philosophy ..... 3 |
| Mathematics Elective .............................. 3 | MATH 116, Elementary Statistics or MATH 156, General Statistics $\qquad$ |
| Total ..................................................... 15 | Total...................................................... 15 |
| Sophomore Year |  |
| POLI 277, International Relations .............. 3 | POLI 140, American Gov \& Politics .......... 3 |
| ECON 200, Microeconomic Principles ...... 3 | ECON 201, Macroeconomic Principles ...... 3 |
| Theology Scrip/Hist or Christ Sys Elective 3 | PHIL 290, Theory of Knowledge .............. 3 |
| Fine Arts Elective ................................... 3 | Field of Concentration ............................. 3 |
| Field of Concentration ............................. 3 | General Elective ....................................... 3 |
| Cultural Diversity Elective ....................... 1 |  |
| Total ..................................................... 16 | Total..................................................... 15 |

## B.A. International Affairs, continued

## Junior Year

POLI 379, Political Development ..... 3
POLI 376. International Law ..... 3
Field of Concentration 3 Field of Concentration ..... 3
Theology Ethics or Rel/Cult Elective 3 POLI 374, U.S. Foreign Policy ..... 3
Science Elective 3 Science Elective ..... 3
General Elective 3 General Elective ..... 3
Total 15 Total ..... 15
Senior Year
POLI 378, International Organizations 3 Field of Concentration ..... 3
Field of Concentration 3 Science Elective ..... 3
Philosophy Elective 3 ENGL/CLAS 205, Lit \& the Moral Imag. ..... 3
General Elective 3 General Electives ..... 6
E/R\&S Focus Elective ..... 3
Total ..... 15Total.15

Scheduling Notes:

- Consult the Undergraduate Core Curriculum description on page 93 of the Catalog.
- The E/R\&S Focus Elective requirement may be used to satisfy another element of the Core or the major.
- A minimum of 120 credit hours is required for the degree.


## REQUIREMENTS FOR THE INTERNATIONAL AFFAIRS MINOR

- 18 hours of political science courses: POLI 140, 277,374,376,378, and 373 or 379.
- A 2.000 cumulative average must be attained in the political science courses.
- Also see page 89 for the International Studies Minor.


## BACHELOR OF ARTS DEGREE 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. The department encourages experiential learning.

Along with the significant contribution sociology makes 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.

In order to demonstrate competency in sociology during the senior year, a senior research project must be successfully completed. That research is directed during the Applied Research Methodology (SOCI 353) course.

## Requirements for the Sociology Major

Core Curriculum Requirements (see page 93): 64 hours

- Mathematics: includes MATH 116 or 156

Major Requirements:

- 30 hours of sociology courses: SOCI 101, 180, 300, 352, 353, 365 or 366 , and 12 hours of upper-division electives.
- A 2.000 cumulative average must be attained in the sociology courses.
B.A. Sociology
This block serves as a guideline for progress toward a degree. See your academic adviser.
First Semester Credit Hours Second Semester Credit Hours
Freshman Year
ENGL 101 or 115, Engl Comp or Rhetoric. 3 Literature Elective ..... 3
Foreign Language Elective 3 Foreign Language Elective ..... 3
History I 3 History II ..... 3
THEO 111, Theological Foundations 3 PHIL 100, Ethics as Intro to Philosophy ..... 3
Science Elective 3 Science Elective ..... 3
Total 15 Total ..... 15
Sophomore Year
SOCI 101, Introduction to Sociology 3 SOCI 180, Human Species ..... 3
Mathematics Elective3 MATH 116, Elementary Statistics orFine Arts Elective3 MATH 156, General Statistics3
Theology Scrip/Hist or Christ Sys Elective 3 ENGL/CLAS 205, Lit \& the Moral Imag ..... 3
Science Elective 3 PHIL 290, Theory of Knowledge ..... 3
Cultural Diversity Elective 1 General Elective ..... 3
Total 16 Total ..... 15
Junior Year
SOCI 352, Principles of Research 3 SOCI 300, Sociological Theories ..... 3
Theology Ethics or Rel/Cult Elective 3 Philosophy Elective ..... 3
Sociology Elective 3 SOCI 365, Class \& Class Conflict orGeneral Electives6 SOCI 366, Utopian Communities3
E/R\&S Focus Elective ..... 3
General Elective ..... 3
Total 15 Total ..... 15

| Senior Year |  |
| :---: | :---: |
| SOCI 353, Applied Res Methodology ........ 3 | Sociology Electives ................................ 6 |
| Sociology Elective .................................. 3 | General Electives ................................... 8 |
| Electives .............................................. 9 |  |
| Total ................................................. 15 | Total................................................. 14 |

Scheduling Notes:

- Consult the Undergraduate Core Curriculum description on page 93 of the Catalog.
- The E/R\&S Focus Elective requirement may be used to satisfy another element of the Core or the major.
- A minimum of 120 credit hours is required for the degree.


## REQUIREMENTS FOR THE ASSOCIATE OF ARTS DEGREE IN SOCIOLOGY

Core Curriculum Requirements (see page 95): 28 hours
Concentration Requirements:

- 15 hours of sociology courses: SOCI 101, 180, 300, 352, and an elective.
- A 2.000 cumulative average must be attained in the sociology courses.


## THE DEPARTMENT OF PSYCHOLOGY

The Department of Psychology offers the Bachelor of Science, the Associate of Science, and the Master of Arts and the Doctor of Clinical Psychology. Also offered is a minor in Psychology. For more information on the associate degree, contact the Center for Adult and Part-time Students (CAPS).

## FACULTY

Faculty: DR. NELSON, chair; DR. BARRY,DR. BERG, DR. COSGROVE,DR.CROWN, DR. DACEY, DR. DULANEY, DR. EBERLEIN, DR. HART, DR. HELLKAMP, DR. KAPP, DR. NORMAN, DR. QUATMAN, DR. SCHULTZ, DR. STUKENBERG

Adjunct Faculty: DR. BIELIAUSKAS, DR. CREW, SR. FLEMING, DR. FRITSCH, DR. HEITZ, DR. HOCK, MS. JACKSON, DR. MAYHALL, DR. MERRY, DR. MUNTEL, DR. REID, MS. ROWEKAMP, DR. SCHROEDER, DR. SEXTON, MS. TOEPKER

## BACHELOR OF SCIENCE DEGREE 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, 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.

## Requirements for the Psychology Major

Core Curriculum Requirements (see page 93): 64 hours including:

- Mathematics:MATH 120 and 150; or MATH 150 and 151 ; or MATH 170 and 171.
- Science included within the major.
- Philosophy additional 3 credit hours beyond core requirements.

Major Requirements:

- 36 total hours. Twenty-seven hours of required psychology courses: PSYC 101, $210,221 / 223,222 / 224,231,261,277,301,499$ and nine hours of electives which the student should discuss with a faculty advisor.
a. Students planning graduate study are encouraged to take courses such as PSYC 321, 379, and 426.
b. Other students are encouraged to elect appropriate courses to fit their goals, e.g. PSYC 321 if entering business.
- 8 hours of biology courses: BIOL 140, 141, 142, 143.
- A 2.000 cumulative average must be attained in the psychology courses.
- Students must maintain contact with departmental faculty advisor each semester to aid in course scheduling, etc.


## B.S. Psychology

This block serves as a guideline for progress toward a degree. See your academic adviser.

| First Semester Credit Hours | Second Semester Credit Hours |
| :---: | :---: |
| Freshman Year |  |
| BroL 140, Human Anatomy \& Phy I ........ 3 | BIOL 142, Human Anatomy \& Phy II ........ 3 |
| BIOL 141, Human Anatomy \& Phy I Lab .. 1 | BIOL 143, Human Anatomy \& Phy II Lab. 1 |
| ENGL 101 or 115, Engl Comp or Rhetoric. 3 | MATH 150, Elements of Calculus I or |
| MATH 120, Elementary Functions or | MATH 151, Elements of Calculus II or |
| MATH 150, Elements of Calculus I or | MATH 171, Calculus II * ...................... |
| MATH 170, Calculus I * ....................... 3 | PHIL 100, Ethics as Intro to Philosophy .... 3 |
| PSYC 101, General Psychology ................ 3 | PSYC 277, Abnormal Psychology ............. 3 |
| Foreign Language Elective ....................... 3 | Foreign Language Elective ....................... 3 |
| Total .................................................... 16 | Total ................................................... 16 |

## Sophomore Year

History I 3 History II ..... 3
THEO 111, Theological Foundations 3 ENGL/CLAS 205, Lit \& the Moral Imag ..... 3
Literature Elective 3 PSYC 231, Developmental Psychology ..... 3
PSYC 210, Statistical Techniques 3 PHIL 290, Theory of Knowledge ..... 3
Psychology Elective 3 PSYC 221, Experimental Psyc I (Lecture) ..... 2
Cultural Diversity Elective 1 PSYC 223, Experimental Psyc I (Lab) ..... 1
Total 16 Total ..... 15
Junior Year
Fine Arts Elective 3 Psychology Elective ..... 3
PSYC 222, Experimental Psyc II (Lecture) 2 Social Science Elective ..... 3
PSYC 224, Experimental Psyc II (Lab) ... 1 Philosophy Elective ..... 3
PSYC 261, Social Psychology 3 General Electives ..... 6
Theology Scrip/Hist or Christ Sys Elective ..... 3
General Elective ..... 15
Total Total ..... 15
Senior Year
Psychology Elective 3 Philosophy Elective ..... 3
General Elective 3 Social Science Elective ..... 3
PSYC 301, History \& Systems 3 General Elective ..... 3
PSYC 499, Senior Comprehensive Review ..... 3
3 E/R\&S Focus Elective
Theology Ethics or Rel/Cult Elective
Total 15 Total. ..... 12

* See section "Requirements for the Psychology Major."Scheduling Notes:
- Consult the Undergraduate Core Curriculum description on page 93 of the Catalog.
- The $\mathrm{E} / \mathrm{R} \& \mathrm{~S}$ Focus Elective requirement may be used to satisfy another element of the Core or the major.
- A minimum of 123 credit hours is required for the degree.


## REQUIREMENTS FOR THE PSYCHOLOGY MINOR

- 18 total hours. Fifteen hours of required courses: PSYC 101, 210, 221, 223, 277 or 231,261 , and 3 hours of electives from PSYC 222 and 224, 231, 232, 233, 277, 301, 321, 366.
- A 2.000 cumulative average must be attained in the psychology courses.


# REQUIREMENTS FOR THE ASSOCIATE OF SCIENCE DEGREE IN PSYCHOLOGY 

Core Curriculum Requirements (see page 95): 31 hours
Concentration Requirements:

- 15 hours total. PSYC 101 required and 12 hours of electives from PSYC 210, 221, 231 or 232 or 233 or 367,261 or $366,277,301,321,379$.
- A 2.000 cumulative average must be attained in the psychology courses.


## MASTER OF ARTS DEGREE 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 related fields.

## Program of Studies

1. To ensure 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:

PSYC 511 and 512, Advanced Statistics I and II (4)
PSYC 520 and 521, Computer Statistical Language I and II (2)
PSYC 504, Theories of Personality (3)
PSYC 506, Advanced Social Psychology (3)
PSYC 609, Learning and Cognition (3)
2. Toensure the attainment of the particular objective in graduate study in psychology, the student must include a concentration in one of the following two areas which must be approved by the program director or his/her designate. Each area of concentration requires a three credit hour practicum.

## Industrial/Organizational Psychology

Sixteen credit hours from the following courses: Personnel Psychology (3), Organizational Psychology (3), Assessment Techniques in Industrial/Organizational Psychology (3), Seminar in Industrial/Organizational Psychology (3), Program Evaluation and Measurement (3), and a selected course from another department (3). Other courses may be taken by permission of the program director.

## General-Experimental Psychology

A minimum of sixteen credit hours selected from the following courses: Assessment I: Intelligence (3), History and Philosophical issues in Psychology (3), Professional Problems and Ethics in Psychology (3), Personnel Psychology (3), Organizational Psychology (3), Assessment Techniques in Industrial/Organizational Psychology (3), Early Cognitive Development (3), and Program Evaluation and Measurement (3).
3. Each student must register for PSYC 699 Master's Thesis (6). The student will prepare an acceptable thesis which will be defended during the student's final oral examination.
4. The degree of Master of Arts in Psychology will be awarded only to candidates who have completed all coursework and attained a GPA of 3.000 or higher, and demonstrated a reading knowledge of a foreign language or demonstrated a proficiency in a computer language (PSYC 520 and 521) and, in the final oral examination, have both successfully defended their thesis and demonstrated their knowledge of the general field of psychology.

## Admission Requirements

To be eligible for admission a student must have:

1. A 2.800 overall undergraduate grade point average (on a 4.0 scale) and a 3.000 average in all Psychology courses.
2. Satisfactory performance on the Graduate Record Examination (GRE). General Knowledge and Psychology Subject test.
3. A minimum of 18 undergraduate hours in psychology which must include general psychology, introductory statistics, experimental psychology with laboratory, and psychological and achievement testing. Courses in developmental psychology are helpful. Courses in biological science and college mathematics are also recommended as a preparation for graduate studies. (In addition, an undergraduate course in industrial/organizational psychology is necessary for students pursuing the Industrial/Organization concentration.)
4. Personality and character traits which are in agreement with ethical standards of psychology.

## Application Procedures

1. A completed application form.
2. Non-refundable $\$ 25.00$ application fee.
3. Two copies of all official transeripts from all previous colleges and universities attended. A 2.800 overall undergraduate grade point average (on a 4.0 scale) and a 3.000 average in all Psychology courses.
4. Three letters of recommendation.
5. A written personal statement as to reasons for pursuing a graduate degree, and plans after completion of studies.
6. GRE scores: General Knowledge and Psychology Subject test.
7. A completed Application for Financial Assistance form for possible financial aid, if interested.
8. Any other information that might aid in the selection process.

At times, a personal interview may be required by the Admission Committee of the Department of Psychology. The student will be notified by the Department and arrangements will be made at a that time. Any other questions regarding the program should be directed to the Department of Psychology Program Coordinator at (513) 745-1053.

## DOCTOR OF PSYCHOLOGY DEGREE

The Doctor of Psychology (Psy.D.) program builds upon Xavier's strong commitment to the Jesuit tradition of service in the context of scholarship. The program provides students with the knowledge and range of skills necessary to provide psychological services in today's changing professional climate. The five-year program includes four academic years and one internship year. The professional-scientist orientation emphasizes the importance of a scientific foundation in psychology. Although the Psy.D. program is designed to prepare students for the general practice of clinical psychology, it also addresses the service of three important groups of underserved people in today's society-children, the elderly, and the severely mentally disabled. Within the curriculum, students have the opportunity to pursue these areas of interest by taking specialized courses, gaining experience in practicum placements, and conducting applied research.

## Program of Studies

Students are accepted into the program on a full-time basis and are required to take 114 credit hours to graduate. The curriculum of the first four years is divided into two major types of learning experiences: 1) knowledge/academic based, and 2) skills/clinical based. Ninety credit hours consist of courses that are primarily "academic" in nature. These courses are designed to develop content and methodologies in specific areas identified by the American Psychological Association
as essential for clinical training--biological, cognitive and affective, social and cultural aspects of behavior, individual differences in behavior, history and systems in psychology, psychological measurement and assessment, human development, psychopathology, professional standards of ethics, research and evaluation, and professional interpersonal conduct. Twenty-four credit hours include courses such as professional development and practicum, clinical practicum, and internship that provides supervised experience and training in a range of clinical areas.

A unique feature of the program is the opportunity for students to develop an "Area of Interest" in clinical child psychology, applied geropsychology, or the psychology of the severely mentally disabled. Students integrate their experiences in the Clinical Competency Examination patterned after the examination given by the American Board of Professional Psychology, which occurs prior to their fourth academic year, and their research skills in the Dissertation prior to graduation.

1. To ensure comprehensiveness in the program, all students must include each of the following courses, designed to provide integrative education in the graduate field of psychology. Although the curriculum may change to match the field of professional psychology, the current curricular requirements are listed below in the present order of completion.

## Year One

PSYC 504, Theories of Personality
PSYC 506, Advanced Social Psychology
PSYC 508, Diversity
PSYC 511, Advanced Statistics I
PSYC 512, Advanced Statistics II
PSYC 520, Computer Statistics I
PSYC 521, Computer Statistics II
PSYC 580, Clinical Psychopathology
PSYC 582, Assessment I: Intelligence
PSYC 585, Assessment II: Personality
Summer
PSYC 502, History and Philosophical Issues
PSYC 505, Professional Problems and Ethics in Psychology
Year Two
PSYC 607, Advanced Developmental Psychology
PSYC 609, Learning and Cognition
PSYC 621, Advanced Research Design and Analysis
PSYC 623, Research Practicum
PSYC 629, Intervention Techniques: Behavior Therapy
PSYC 650, Professional Development and Practicum I
PSYC 651, Professional Development and Practicum II
PSYC 685, Assessment III; Personality

## Summer

PSYC 610, Biological Bases of Behavior
Elective

Year Three<br>PSYC 730, Intervention Techniques: Consulting<br>PSYC 731, Intervention Techniques: Psychodynamics<br>PSYC 760, Clinical Practicum III<br>PSYC 761, Clinical Practicum IV<br>PSYC 787, Major Research I<br>PSYC 788, Major Research II

Electives
Clinical Competency Examination must be defended prior to beginning the fall semester of the fourth year.

Year Four
PSYC 850, Clinical Practicum V
PSYC 851, Clinical Practicum VI
PSYC 889, Major Research III
Electives
Dissertation proposal must be approved before accepting internship.

## Year Five

PSYC 999, Internship (one year)
The Psy.D. degree will be awarded upon successful completion of coursework, Clinical Competency Examination, Doctoral Dissertation, and an internship.
2. All students are required to take eight elective courses, four of which are specified as the student's "Area of Interest"--clinical childpsychology, applied geropsychology, or the psychology of the severely mentally disabled. The other four electives are chosen by students in consultation with their adviser.

## Admission Requirements

To be eligible for admission, applicants should submit the following items before the deadline date of February Ist each year:

1. A completed application form.
2. Non-refundable $\$ 35.00$ application fee.
3. Two copies of all official transcripts from all previous colleges and universities attended. A 2.800 overall undergraduate grate point average (in a 4.0 scale) and a 3.000 average in all psychology courses.
4. Three letters of recommendation.
5. A written personal statement as to reasons for pursuing a graduate degree, and plans after completion of studies.
6. GRE scores: General Knowledge and Psychology Subject test.
7. A completed Application for Financial Assistance form for possible financial aid if interested.
8. Any other information that might aid in the selection process.

A minimum of 18 undergraduate 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 also recommended as a preparation for graduate studies.

Students accepted with advanced standing in a field akin to the doctoral degree in psychology, may expect a portion of their previous graduate work (if the student has earned a grade of " B " or higher) to be credited toward the fulfillment of the requirements for the doctoral degree. All decisions regarding acceptance of graduate credit will be made by the Department Chair in conjunction with the student's adviser by the end of the first year. In all cases, a minimum of 75 of the 114 hours required coursework for the Psy.D. degree must be completed at Xavier.

## THE DEPARTMENT OF SOCIAL WORK

The Department of Social Work offers the Bachelor of Science in Social Work.
FACULTY
Faculy: DR. LONG, chair; DR. JENKINS

## BACHELOR OF SCIENCE IN SOCIAL WORK DEGREE

The Social Work Program at Xavier University 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 goals 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 who are 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.

## Requirements for the Social Work Major

Core Curriculum requirements (see page 93): 64 hours

- Mathematics requirement includes MATH 116 or 156.
- Science requirement includes BIOL 112, 120, 125, and 127.
- Social Sciences requirement: PSYC 101 and SOCI 101.
- E/R\&S Focus Elective requirement may be fulfilled by a variety of courses; consult the Schedule of Classes.
Major Requirements:
- 46 hours of social work courses: SOCW 167, 204, 208, 300, 315, 316, 318, 325, 352, 415, 416, 417, 418, 419, 420, 424.
- PSYC 232.
- Minimum of nine hours in related divisional work as specified in the support core (or other courses approved by the department chair).
- A grade of "C" or above must be attained in each course required for the social work major, excluding the nine hours of support core course work. Exceptions to this requirement may be granted following petition to the department.
- Other policies for Social Work majors are located in the departmental student handbook.


## Support Core for Social Work

SOCW 211 Computer Application for the Social Sciences
SOCW 264 Social Change
SOCW 265 Overview of Contemporary Corrections
SOCW 270 Families in Poverty
SOCW 307 Child Welfare
SOCW 310 Farnily \& Society
SOCW 313 Lifestyles in a Changing Society
SOCW 330 Community Organizing
SOCW 337 Adolescence Crisis
SOCW 402 Child Abuse
SOCW 412 Dynamics of Older Adults
SOCW 432 Res \& Clinical Issues: SMD Population
SOCI 290 Criminology \& Penology
SOCI 316 Complex Organizations

B.S. Social Work, continued

## Senior Year

SOCW 416, Theory \& Met of SW Pract II . 3 Fine Arts Elective ..... 3
SOCW 417, Social Work Field Instruction. 4 SOCW 418, Social Work Field Instruction ..... 4
SOCW 419, Social Work Seminar 2 SOCW 420, Social Work Seminar ..... 2
SOCW 424, Research Paper 1 Support Core ..... 3
Support Core 3 Support Core ..... 3
E/R\&S Focus Elective ..... 3
Total 16 Total ..... 15

* SOCW 318 fulfills the Cultural Diversity Elective
Scheduling Notes:
- Consult the Undergraduate Core Curriculum description on page 93 of the Catalog.
- The E/R\&S Focus Elective requirement may be used to satisfy another element of the Core or the major.
- A minimum of 120 credit hours is required for the degree.



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Latin ..... 320
Management ..... 321
Marketing ..... 323
Mathematics ..... 326
Medical Technology ..... 328
Military Science ..... 329
Modern Languages ..... 330
Music ..... 330
Nursing ..... 334
Occupational Therapy ..... 338
Philosophy ..... 341
Physics ..... 343
Political Science ..... 345
Psychology ..... 346
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Social Work ..... 354
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Statistics ..... 359
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## NOTES:

## Accounting (ACCT)

## Undergraduate Courses

ACCT 200 INTRODUCTORY FINANCIAL ACCOUNTING (3) A foundation course which provides an introduction to fundamental concepts and to the financial staternents.
ACCT 201 INTRODUCTORY MANAGERIAL ACCOUNTING (3) Management's use of accounting data in planning, operations, controlling activities, and decision making. Prerequisite: ACCT 200.
ACCT 300 INTERMEDIATE FINANCIAL ACCOUNTING I (3) Study of financial accounting theory and principles applicable to the accumulation, analysis, measurement, reporting, and interpretation of selected economic phenomena of enterprise operations. The first of a two course sequence. Prerequisites: Minimum grade of "C" in ACCT 200 and ACCT 201.
ACCT 301 INTERMEDIATE FINANCIAL ACCOUNTING II (3) The second of a two course sequence focusing on the study of financial accounting theory and principles. Prerequisite: Minimum grade of "C" in ACCT 300.
ACCT 303 CO-OP EDUCATION/ACCOUNTING: JUNIOR LEVEL (3-6) An elective cooperative experience where students earn academic credit while performing approved accounting-related work experience. Prerequisite: MGMT 301, 55 credit hours completed, 2.75 gpa , department approval required.
ACCT 311 INTRODUCTION TO TAXATION (3) Introduction to the tax concepts of income and expense for C -corporations, partnerships, S -corporations, and individuals, with emphasis on the differences between financial and tax accounting. Prerequisite: Minimum grade of "C" in ACCT 200.
ACCT 321 COST ACCOUNTING (3) The study of the process of measuring, interpreting and communicating information that assists managers in achieving organizational goals. Prerequisite: Minimum grade of "C" in ACCT 200 and ACCT 201, Corequisite: ACCT 300.
ACCT 350 FINANCIAL ANAL YSIS FOR MANAGERS (3) An overyiew for non-accounting majors of corporate financial reporting emphasizing the areas of financial statement presentation, disclosure and analysis. Prerequisite: ACCT 201.
ACCT 403 CO-OP EDUCATION/ACCOUNTING: SENIOR LEVEL (3-6) An elective cooperative experience where students earn academic credit while performing approved accounting-related work experience. Prerequisite: MGMT 301, 55 credit hours completed, 2.750 gpa ; departmental approval required.
ACCT 421 AUDITING I (3) An introduction to auditing concepts, standards and procedures related to the planning and execution of financial and operational audits. The course also includes the topics of internal controls and professional ethics. Prerequisite: Minimum grade of "C" in ACCT 301, departmental approval required.
ACCT 431 ADVANCED FINANCIAL ACCOUNTING (3) Study of the theory and practice of accounting with application to business and nonbusiness enterprises. Topics include: mergers and acquisitions, consolidated financial statements, foreign currency transactions, partnership accounting, and fund accounting for governmental and nonprofit entities. Prerequisite: Minimum grade of "C" in ACCT 301.
ACCT 495 ANALYSIS OF ACCOUNTING SYSTEMS (3) Integrates the upper division courses of the accounting major. Prerequisite: Minimum grade of "C" in ACCT 421, Corequisite ACCT 431.
ACCT 499 TUTORIAL IN ACCOUNTING (1-3).

## Graduate Courses

ACCT 801 ACCOUNTING CONCEPTS (1.5) A foundation course which provides an introduction to the financial statements.

ACCOUNTING ANALYSIS OF ORGANIZATIONS (1.5) A foundation course which emphasizes the analysis and interpretation of accounting statements and reports. Prerequisite: ACCT 801.
ACCT 901 ACCOUNTING ANALYSIS FOR MANAGEMENT DECISIONS (3) This course focuses on the de velopment of accounting information to support planning, evaluation and control. Applications to both routine and strategic decision making contexts are discussed. Prerequisite: Completion of the foundation and business skills courses.
ACCT 902 SURVEY OF TAXATION (3) An introductory course which includes an examination of the fundamental concepts of the federal income tax structure and how chese concepts affect tax reporting entities such as C-corporations, partnerships, Scorporations, and individuals. Prerequisite: ACCT 802.
ACCT 945 TOPICS IN FEDERAL TAXATION (3) Study of sole proprietorships, parnerships, and corporations, with emphasis on the tax issues associated with formation, operations, liquidation, and the role of taxation in the business decision making process. Prerequisite: ACCT 902 or equivalent.
ACCT 946 TAXATION OF PARTNERSHIPS AND CORPORATIONS (3) Topics include liquidations, reorganizations, and redemptions. Prerequisite: ACCT 945.
ACCT 947 TAX RESEARCH AND PRACTICE (3) Tax research concerning regulations governing CPA's, attomeys, statutes of limitations, rules of evidence, etc. Prerequisite: ACCT 902 .
ACCT 948 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: ACCT 902.
ACCT 952 INTERNATIONAL ACCOUNTING (3) A study of international accounting issues. The course will address international accounting standards, a comparison of accounting standards among different countries, and the reporting requirements of multinational corporations. Prerequisite: ACCT 901.
ACCT 955 ADVANCED MANAGERIAL ACCOUNTING (3) A study of Management planning and control systems and the decision making processes in different organizational structures. Prerequisites: ACCT 901, and FINC 901.
ACCT 958 AUDITING II (3) An extension of the introductory auditing course which focuses on the application of auditing techniques. The course will address methods and technologies used in conducting an audit. Prerequisite: ACCT 421 or equivalent.
ACCT 995 INDIVIDUAL READINGS AND RESEARCH (2-3) Open to especially qualified students with the consent of the department chairperson and the dean.

## American Sign Language (ASLN)

## American Sign Language Note

It may not be possible to fulfill the language requirement by taking American Sign Language as the courses have limited availability.

## Lower Division Courses

ASLN 101 ELEMENTARY AMERICANSIGN LANGUAGEI (3) An introduction to basic signing through emphasizing the acquisition of high-frequency vocabulary, facial expression and the development of cultural awareness.
ASLN 102 ELEMENTARY AMERICAN SIGN LANGUAGE II (3) The second semester elementary course which is a continuation of ASLN 101. Prerequisite ASLN 101 (unless waived).
ASLN 201 INTERMEDIATE AMERICAN SIGN LANGUAGE I (3) The first semester intermediate course which is a continuation of ASLN 102 with a particular emphasis on the development of more creative use of the language. Prerequisite ASLN 102 (unless waived).

INTERMEDIATE AMERICAN SIGN LANGUAGE II (3) A communicativeoriented course emphasizing receptive and expressive skills through the study of authentic materials dealing with the Deaf world. This course includes a comprehensive grammar review. Prerequisite ASLN 201 (unless waived).

## Art (ARTS)

## 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.
ARTS 100 SEMINAR: FRESHMAN ART MAJORS (1) The role of art in human life and society is examined through the investigation of historical and contemporary artists, writings and work with an emphasis on the students' own creative initiative, artistic growth and commitment. Corequisite: ARTS 101 unless exemption has been granted.
ARTS 101 TWO-DIMENSIONAL DESIGN (3) Fundamental aspects of two-dimensional design: object rendering, nature rendering, studies in perspective, black/white composition principles, material studies and introduction to color theory, Corequisite: ARTS 100, unless an exemption has been granted.
ARTS 102 DRAWING (3) A development of the fundamentals-concepts and skills-of drawing through a broad range of aesthetic expressions and multisensory exercises.
ARTS 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 one of the following media: oils, acrylics, watercolors and/or mixed media.
ARTS 104 PRINTMAKING (3-12) An introductory study into intaglio, lithography, monotype, relief, or screen printing.
ARTS 105 THREE-DIMENSIONAL DESIGN (3) An introductory study into the artistic uses of three-dimensional model building.
ARTS 106 FIBER ARTS (3) An introduction to a variety of fiber techniques both on and offloom stressing design concepts and aesthetic values. Emphasis is on woven structures.
ARTS 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, and various kiln firing procedures are also explored, along with a historical overview.
ARTS 111 THE ART EXPERIENCE (3) An especially designed course to fulfill the university core fine art requirement which gives insight into the visual art experience. For non-art majors only.
ARTS 112 THE AESTHETIC EXPERIENCE (3) An especially designed course to fulfitl the university core fine art requirement which gives insight into the aesthetic experience. For non-art majors only.
ARTS 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.

ARTS 203 ADVANCED PAINTING (3-21) Advanced studies in one of the following media: oils, acrylics, watercolors and/or mixed media with the primary concern being to develop a personal visual expression after appropriate experimentation with different structures and techniques.

ARTS 204
304
404
504
ARTS 205
305
405
505
ARTS 206
306
406
506
ARTS 209 ADVANCED CERAMICS (3-21) Advanced study of wheel-throwing and
ADVANCED PRINTMAKING (3-21) The continuing investigation of an area begun in ARTS 104 with the potential to pursue new print media. Students will achieve further technical experience while increasing their range of content, scale and productivity. Student studio maintenance and materials preparation are stressed. ADVANCED SCULPTURE (3-21) Study of the plastic qualities of edge and form in three-dimensional time, emphasizing personal meaning and permanent materials. Prerequisite ARTS 105.

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. handbuilding, investigating both form and function. Independent clay and glaze formulation, and alternative kiln firing procedures are emphasized.

## 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.
ARTS 213 INCARNATING TOTEM AND TABOO (3) A study which frames ethical questions concerning pragmatic issues in the making, collecting, curating and viewing of visual art, and fulfilling the E/R\&S Focus elective. Prerequisite/ Corequisite to PHIL 100 and THEO 111.
ARTS 221 ELEMENTARY SCHOOL ART (3) A comprehensive introduction to art educa-
521 tion at the elementary school level employing both theory and practice. The creative and mental stages of development are emphasized. Not open to freshmen.
ARTS 223 SECONDARY SCHOOL ART (3) An investigation, evaluation and observation 523 of the rationale, behavioral objectives, and organization of art activities at the secondary level.
ARTS 242 GRAPHIC DESIGN (3) An introduction to visual communication graphics and design with an emphasis on printed matter. Illustrative graphics, symbol/logo design, typography, lettering, layout principles/grid systems, camera ready art and an introduction to computer technology are highlights of the course. Prerequisite: ARTS 101. For art majors and minors only.
ARTS 342 ADVANCED GRAPHIC DESIGN (3-9) A continued study of visual communi442 cation graphics using computer technology (object oriented drawing, bit-mapped 542 painting and electronic page assembly) to prepare print-oriented graphics. Prerequisite: ARTS 242.

## Lecture Courses

The following listings are lecture courses supplemented with slides, films, tours, and related experiences. They do not require studio activities.
ARTS 161 HUMANITIES I (3) Art, music, and literature from Prehistoric times to the Middle Ages, using feature-length films to dramatize cultural patterns.
ARTS 162 HUMANITIES II (3) Art, music, and literature from the Renaissance to the 20th century, using feature-length films to dramatize cultural patterns.
ARTS 261 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.
ARTS 262 HUMANITIES IV (3) Selected topics in art, music, and literature from the Renaissance to the 20th century using slide-illustrated lecture-discussions and muscum visits.
ARTS 270 HISTORY OF ART I (3) A survey of art and architecture from its prehistoric beginnings through the Middle Ages.
ARTS 271 HISTORY OF ART II (3) A survey of western art and architecture from the Renaissance to the present.

ARTS 372 ART OF THE 20TH CENTURY (3) A study of European and American art and architecture from about 1900 to the present.
ARTS 373 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.

## Required Senior Courses

The following listings are required of senior art majors and designed especially for them, although non-art majors may enroll in ARTS 440.
ARTS 440 CRITICISM (2) Study and discussion of the development of theories of beauty, art and taste and their application to contemporary ideas of art.
ARTS 441 SEMINAR: SENIOR ART MAJORS (2) Practical considerations in aesthetic, business, and legal concerns of the artist. Visitations to artistic resources of Cincinnati.
ARTS 490 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.
ARTS 491 INDEPENDENT STUDY (Credit to be arranged.) Problems related to department
591 fields, although not specifically included in the catalog, may be requested by the student and elected with the approval of the instructor and permission of chair.

## Biology (BIOL)

BIOL 102-143 may not be taken for Biology major, premedical, or predental requirements. All lower division laboratory courses require animal dissection, with the exception of BIOL 125. BIOL 160-163 are required as introduction to all upper division courses. In exceptional cases, BIOL $102-127$ may be considered as full or partial fulfillment. Additional prerequisites are listed with specific courses. Lecture and laboratory sections of each course except genetics and biochemistry must be taken concurrently.

## Lower Division Courses

BIOL 102- LIFE (2) Each course emphasizes a different aspect of biology and its impact on
BIOL 120 human society: human biology (102), wellness (104), genetics and evolution (112), microbes \& humans (116), plants (118), ecology (120). BIOL 120 fulfills the $\mathrm{E} / \mathrm{R} \& \mathrm{~S}$ Focus elective. Prerequisite/Corequisite to PHIL 100 and THEO 111.
BIOL $125-$
LIFE LAB INVESTIGATION (1) Exercises, experiments, dissections, and field
BIOL 127 trips to accompany BIOL 102-120.
BIOL 140 HUMAN ANATOMY AND PHYSIOLOGY I (3) The major human systems emphasizing the skeletal, muscular, and nervous systems.
BIOL 141 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.
BIOL 142 IHUMAN ANATOMY AND PHYSIOLOGY II (3) Continuation of BIOL 140 stressing the circulatory, immune, excretory, digestive, endocrine, and reproductive systems.
BIOL 143 HUMAN ANATOMY AND PHYSIOLOGY II LABORATORY (1) Continuation of anatomical approach of BIOL 141 with related physiological studies and demonstrations.
BIOL 160 GENERAL BIOLOGY I (3) Principles of molecular, cellular, and organismal biology, emphasizing the physiology of vertebrates. Preparation for most 200 level courses.
BIOL 161 GENERAL BIOLOGY I LABORATORY (2) Laboratory exercises demonstrating the principles of cellular biology, genetics, and vertebrate systems.
BIOL 162 GENERAL BIOLOGY II (2) Topics in taxonomy, evolution, animal behavior, and ecology. Preparation for most 200 level courses. Prerequisite: BIOL 160 or permission of department chair.

BIOL 163 GENERAL BIOLOGY II LABORATORY (2) A study of the encaryotic kingdoms with emphasis on Animalia, using living and preserved specimens and field trips. Prerequisite: BIOL 161 or permission of department chair.

## Upper Division Courses

BIOL 200 MICROBIOLOGY (3) Basic sudy of microbes, their activities, control, role in disease and host immune responses. Intended for Nursing and Pre-pharmacy students.
BIOL 201 MICROBIOLOGY LABORATORY (1) Microscopic examination of the diversity of microbes, including monerans, fungi, and protistans. Students learn basic culture, isolation, and identification techniques in bacteriology.
BIOL 204 FUNCTIONAL NEUROSCIENCE (3) The structure, function, and pathology of the nervous system. Intended for Occupational Therapy students.
BIOL 210 GENERAL BOTANY (2) The morphology, physiology, and reproduction of representatives of each plant division are studied with emphasis on the seed plants. Prerequisites: BIOL 160-163 or permission of instructor.
BIOL 211 GENERAL BOTANY LABORATORY (2) Observations of living and preserved plants, experimentation, and field trips to illustrate structure and life processes in various plant groups.
BIOL 222 IMMUNOLOGY (2) An introduction to the specific mechanisms by which the human body reacts to foreign biological materials.
BIOL 230 GENETICS (3) Principles of heredity, the genetic control of development, molecular genetics, and population genetics. Prerequisites: BIOL 160-163 or permission of instructor.
BIOL 240 EVOLUTION (2) Evidence for and the mechanisms of evolutionary processes. Prerequisites: BIOL 160-163 or permission of instructor.
BIOL 244 ANIMAL BEHAVIOR (2) Study of the innate, learned, aggressive, social, and sexual behavior of animals as evolutionary products. Prerequisites: BIOL 160-163 or permission of instructor.
BIOL 250 ECOLOGY (3) The relationships between organisms and their living and nonliving environments. Prerequisites: BIOL 102-127 or 160-163 or permission of instructor.
BIOL 251 ECOLOGY LABORATORY (1) Laboratory and field exercises to illustrate ecological principles. Local aquatic and terrestrial habitats are investigated.
BIOL 280 TOPICS IN BIOLOGY (1-3) Short-term courses designed to explore biological phenomena of current interest. Prerequisites: BIOL 160-163 and permission of Chair.
BIOL 290 SPECIAL PROBLEMS IN BIOLOGY (1-4) Independent study in some specialized area of biology. Prerequisite: permission of Chair.
BIOL 301 ZOOS ARE CLASSROOMS (1) Demonstrates how zoos may be used to teach biological principles.
BIOL 303 SKELETONS IN THE CLASSROOM (2) Lectures and lab activities to demonstrate how skeletal material may be used in the classroom.
BIOL 304 PLANTS IN THE CLASSROOM (2) Lectures, lab activities and field trips to demonstrate how plant material may be used in the classroom.
BIOL 330 MEDICAL GENETICS: IMPLICATIONS (2) The principles of human genetics, risks, screening, diagnosis, applications of genetic ethics to problems. Prerequisites: BIOL 160-163, 230.
BIOL 340 ADVANCED PHYSIOLOGY (3) Functional processes of the human body, interrelationships of the systems, and some homeostatic and immunological applications. For Nursing curriculum. Prerequisites: BIOL 140-143.
BIOL 350 GENERAL EMBRYOLOGY (2) A description of vertebrate development and an analysis of the mechanisms of animal development. Prerequisites: BIOL 160-163 or permission of instructor.

BIOL 351 GENERAL EMBRYOLOGY LABORATORY (2) A microscopic and experimental study of gametogenesis, fertilization, cleavage, gastrulation, and organogenesis, emphasizing the vertebrates.
BIOL 352 COMPARATIVE ANATOMY OF THE VERTEBRATES (2) The morphology and evolution of the vertebrates. Prerequisites: BIOL 350-351.
BIOL 353 COMPARATIVE ANATOMY OF THE VERTEBRATES LABORATORY
(2) Dissection of selected vertebrates with analysis of structure and function as adaptations.
BIOL 360 CELL BIOLOGY (2) A contemporary view of cell structure and function. Prerequisites: BIOL 160-163 or permission of instructor.
BIOL 398 SEMINAR: ENVIRONMENTAL STUDIES (3) (ECON 398) A practicum which provides experience in measuring environmental damage and performing cost-benefit analysis of alternative solutions. A local environmental issue is selected and each student is responsible for investigating a facet of the problem. The seminar format provides a mechanism for sharing ideas for proper procedure in investigating the problem, analyzing and interpreting data, and exploring the economic, ecological, and ethical consequences of alternative problem resolutions. Prerequisites: BIOL 250/251 and Natural Resource Economics, ECON 320.
BIOL 410 VERTEBRATE PHYSIOLOGY (2) Contraction, perception, metabolism, circulation, respiration, coordination and excretion in vertebrates, emphasizing humans. Prerequisites: BIOL 160-163 or permission of instructor.
BIOL 411 VERTEBRATE PHYSIOLOGY LABORATORY (2) Exercises which demonstrate major principles to accompany BIOL 410 , utilizing living specimens and computer-based instrumentation.
BIOL 420 GENERAL HISTOLOGY (2) Structure and function of animal tissues as revealed by light microscopy, electron microscopy, and histochemistry. Prerequisite: BIOL 160-163 or permission of instructor.
BIOL 421 GENERAL HISTOLOGY LABORATORY (2) A microscopic study of fixed materials employing routine and histochemical techniques to demonstrate cell, tissue, and organ morphology.
BIOL 440 BIOCHEMISTRY (3) (CHEM 440) A lecture course treating the structure, properties, and metabolism of proteins, carbohydrates, lipids, and nucleic acids.
BIOL 441 BIOCHEMISTRY LAB (1)
BIOL 450 BACTERIOLOGY (2) The morphology, physiology, and genetics of bacteria including the impact of these organisms on humans. Prerequisites: BIOL 160-163 or permission of instructor.
BIOL 451 BACTERIOLOGY LABORATORY (2) The techniques for isolation, identification, culturing, and physiological study of bacteria.
BIOL 495 DIRECTED STUDY (Credit to be arranged.) A variety of independent studies, including an internship program with the Cincinnati Zoo, and undergraduate research beginning in the sophomore and junior years.
BIOL 498 METHODS OF BIOLOGICAL RESEARCHI (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.
BIOL 499
METHODS OF BIOLOGICAL RESEARCH II (1-2) A continuation of BIOL 498 emphasizing experimental design and controls together with the written and oral presentation of scientific reports.

## Business Administration (BUAD)

## Interdisciplinary Courses

BUAD 301 THE CHALLENGE OF LEADERSHIP (3) Explores diverse theoretical base of leadership while using the concept of the Heroic Journey as an aid to the student in contemplating their own journey; past and present. Leadership in group setting is emphasized. Experiential learning used.

## Graduate Courses

BUAD 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.
BUAD 901 LEGAL, ETHICAL AND REGULATORY ENVIRONMENT (2) Examines antitrust, administrative law, liabilities and other legal, regulatory or ethical issues confronting business
BUAD 904 GLOBAL STRATEGIC THINKING (4)
BUAD 925 SERVICE LEARNING PRACTICUM I (3) Student teams serve as consultants to not-for-profit organizations or companies that are committed to serving their community. The course(s) will include lectures and readings, development and execution of a consulting plan, teaming in all aspects of the course, and reflection on experience. Prerequisites: All integrated functions courses.
BUAD 980 DOING BUSINESS IN ASIA (3) Assess the elements of quality manufacturing and service used by companies doing business in Japan, Singapore, and other Asian countries. Explore the procedures used to adapt to cultural diversity.
BUAD 981 DOING BUSINESS IN EUROPE (3) Assess the strategies of niche manufacturing and marketing used by business to successfully penetrate the European market, and procedures used to adapt to cultural diversity.
BUAD 982 DOING BUSINESS IN EUROPEAN UNION (3) Gain a basic familiarity with management strategies, techniques and philosophies which may differ from those practiced in the United States. Develops a better appreciation for cultural differences and how they impact business conduct.

## Business Law (BLAW)

## Undergraduate Courses

BLAW 300 LEGAL ENVIRONMENT (3) Provides a background in the legal environment of business. Topics include: contracts, business torts, products liability, business entities, and employment discrimination. Prerequisite: junior status.
BLAW 475 BUSINESS LAW (3) Provides exposure to legal topics to help prepare students for law school or the CPA exam. Topics include: sales, commercial paper, secured transactions, agency, partnership, securities regulation, estates and trusts, and suretyship. Prerequisite: junior status.

## Chemistry (CHEM)

## Lower Division Courses

CHEM 102 CHEMISTRY IN SOCIETY I (2) A course for the non-science major. The relationship between chemistry and contemporary society.
CHEM 103 CHEMISTRY IN SOCIETY I LABORATORY (1) Chemical experimentation which illustrates the concepts described in CHEM 102.
CHEM 104 CHEMISTRYINSOCIETY II (2) A course for the non-science major. The impact of basic chemical discoveries and of certain organic and biochemical compounds on society. Prerequisite: CHEM 102. Fulfills the E/R\&S Focus elective when taken with CHEM 105. Prerequisite/Corequisite to PHIL 100 and THEO 111,
CHEM 105 CHEMISTRY IN SOCIETY II LABORATORY (1) Chemical experimentation which illustrates the concepts described in CHEM 104. Prerequisite: CHEM 103. Fulfills the E/R\&S Focus elective when taken with CHEM 104. Prerequisite/ Corequisite to PHIL 100 and THEO 111.
CHEM 106 CHEMISTRY AND PHYSICS OF PHOTOGRAPHYY (2) A course for the nonscience major. Chemical and physical principles underlying photography are presented.
CHEM 107 CHEMISTRY AND PHYSICS OF PHOTOGRAPHY I LABORATORY (1) Exemplification of principles taught in CHEM 106.
CHEM 108 CHEMISTRY AND PHYSICS OF PHOTOGRAPHY II (2) A continuation of CHEM 106 applying the principles to black and white photographic processes.
CHEM 109 CHEMISTRY AND PHYSICS OF PHOTOGRAPHY II LABORATORY (1) A continuation of CHEM 107.
CHEM 140 PRINCIPLES OF CHEMISTRY I (3) An introduction to chemical measurements, atomic structure, states of matter, and acids and bases.
CHEM 141 PRINCIPLES OF CHEMISTRY I LABORATORY (1) A laboratory course to accompany CHEM 140.
CHEM 142 PRINCIPLES OF CHEMISTRY II (3) A continuation of CHEM 140 covering Organic Chemistry and Biochemistry. Prerequisite: CHEM 140.
CHEM 143 PRINCIPLES OF CHEMISTRY II LABORATORY (1) Laboratory course to accompany CHEM 142.
CHEM 160 GENERAL CHEMISTRY I (3) Atomic and molecular structure, states of matter, stoichiometry and chemistry of representative main group elements. A pre-professional course.
CHEM 161 GENERAL CHEMISTRY I LABORATORY (1) Practice in the basic operations of chemical laboratory work. Corequisite: CHEM 160.
CHEM 162 GENERAL CHEMISTRY II (3) A continuation of CHEM 160. Subjects include thermodynamics, equilibrium, acids and bases, kinetics, redox processes, and transition metal chemistry. Prerequisite: CHEM 160.
CHEM 163 GENERAL CHEMISTRY II LABORATORY (2) A continuation of CHEM 161. The laboratory work includes qualitative and quantitative inorganic analysis. Prerequisite: CHEM 161; Corequisite: CHEM 162.
CHEM 165 GENERAL CHEMISTRY II LABORATORY (1) Laboratory to accompany CHEM 162 emphasizing quantitative measurements. Prerequisite: CHEM 161; Corequisite: CHEM 162.

## Upper Division Courses

CHEM 220 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: CHEM 162.
CHEM 221 ANALYTICAL CHEMISTRY (1) Lecture and Laboratory course. Application of wet and instrumental analytical methods to substances of clinical interest. Prerequisite: CHEM 163.

CHEM 235 PHYSICAL ANALYTICAL LABORATORY I (1) Measurement techniques applied to chemical systems. Lectures on principles of quantitative analysis are included. Prerequisites: CHEM 162; CHEM 16.3 or 165.
CHEM 237 PHYSICAL ANALYTICAL LABORATORY II (1) Continuation of CHEM 235. Prerequisite: CHEM 235.

CHEM 240 ORGANIC CHEMISTRY I (3) Introductory course treating the structure, preparation, reactions, and properties of organic compounds. Prerequisite: CHEM 162.
CHEM 24! ORGANIC CHEMISTRY I LABORATORY (1) The practice of fundamental operations involved in the synthesis, separation, purification, and identification of organic compounds. Prerequisite: CHEM 163 or 165.
CHEM 242 ORGANIC CHEMISTRY II (3) A continuation of CHEM 240 which extends the treatment of fundamental organic chemistry. Prerequisite: CHEM 240.
CHEM 243 ORGANIC CHEMISTRY II LABORA TORY (1) Continuation of the laboratory work of CHEM 241 with increased emphasis on the reactions and synthesis of organic systems. Prerequisite: CHEM 241. Corequisite: CHEM 242.
CHEM 300 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.
CHEM 320 PHYSICAL CHEMISTRY I (3) An introduction to theoretical chemistry with emphasis on thermodynamics and chemical equilibrium. Prerequisite: CHEM 162.
CHEM 322 PHYSICAL CHEMISTRY II (2) A continuation of CHEM 320. Chief emphasis is on chemical kinetics and kinetic molecular theory. Prerequisite: CHEM 320.
CHEM 330 QUANTUM CHEMISTRY (2) An introduction to quantum chemistry and molecular structure. Prerequisite: CHEM 162.
CHEM 339 PHYSICAL ANALYTICAL LABORATORY III (1) Laboratory experiments to demonstrate spectroscopic techniques. Prerequisite: CHEM 237.
CHEM 340 INSTRUMENTAL ANALYSIS (3) Discussion of modern analytical chemistry with emphasis on instrumentation and measurement techniques. Prerequisite: CHEM 320 or CHEM 220.
CHEM 341 INSTRUMENTAL ANALYSIS LABORATORY (2) Practice in the use of chemical instrumentation as available. Prerequisite: CHEM 340.
CHEM 390 CHEMISTRY SEMINAR (0) Required of all chemistry majors in junior and senior year.
CHEM 398 CHEMICAL RESEARCH I THESIS (1) Directed reading and undergraduate laboratory research required of all chemistry majors in their junior or senior year.
CHEM 399 CHEMICAL RESEARCHII (1) A continuation and conclusion of research begun in CHEM 398. A written thesis is required as a final report of the activities of CHEM 398 and 399.
CHEM 411 ORGANIC SYNTHESIS AND ANALYSIS (3) Synthesis and analysis of organic compounds. Emphasis on chromatographic and spectroscopic methods of identification and estimation. Prerequisites: CHEM 242 and 243.
CHEM 420 INORGANIC CHEMISTRY (3) Modern theories of bonding and structure, spectroscopy, redox chemistry, and reaction mechanisms. Coordination compounds, organometallic clusters, and catalysis. Prerequisite: CHEM 330.
CHEM 421 INORGANIC CHEMISTRY LABORATORY (1) Laboratory techniques and practice in synthetic inorganic chemistry. Prerequisite: CHEM 420.
CHEM 430 RADIOCHEMISTRY (2) Lecture on basic principles of radiochemistry and the methodology of instrumental techniques.
CHEM 431 RADIOCHEMISTRY LABORATORY (1) Laboratory course to accompany CHEM 430.
CHEM 440 BIOCHEMISTRY (3) (BIOL 440) A lecture course treating the structure, properties, and metabolism of proteins, carbohydrates, lipids, and nucleic acids. Prerequisite: CHEM 242.
CHEM 450 TOPICS IN ORGANIC CHEMISTRY (2) An extension of fundamental organic chemistry to include more specialized topics not previously considered or extensively treated. Prerequisite: CHEM 242.

# Classics (CLAS) 

## Undergraduate Courses

CLAS 101 ANCIENT MEDITERRANEAN CIVILIZATIONS I: GREECE (3) An introduction to the methodologies of ancient historical study and an account of the growth and development of ancient Greek civilization from the prehistoric to the Roman era.

CLAS 102 ANCIENT MEDITERRANEAN CIVILIZATIONS II: ROME (3) An introduction to the methodologies of ancient historical study and an account of the growth and development of ancient Roman civilization from its archaeological and legendary beginnings through the Roman republic into the time of the emperors.
CLAS 130 STUDIES IN THE EPIC (3) (ENGL 130) An inquiry into the epic genre, the epic hero, and epic values through a careful reading of several ancient and medieval poems.
CLAS 142 CLASSICAL TRAGEDY (3) (ENGL 142) 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.
CLAS 146 CLASSICAL COMEDY AND SATIRE (3) (ENGL 146) A study of ancient classical writings, comedies, which were presented on the stage, and satirical poems.
Clas 205 CLASSICAL LITERATURE AND THE MORAL IMAGINATION (3) An examination of ethical and social issues drawn from the Greco-Roman past which illuminate contemporary society. Fulfills E/R\&S Focus Literature and the Moral Inagination requirement. Prerequisite/Corequisite: PHIL 100 and THEO 111.
CLAS 247 CLASSICAL MYTHOLOGY (3) A study of ancient classical myths, primarily through artifacts and works of art, highlighting the meaning and influence of its myths.
CLAS 248 CLASSICAL MYTHOLOGY (3) A study of the ancient classical myths, primarily through its surviving literature, highlighting the meaning and influence of its myths.
CLAS 249 NEAR EASTERN MYTHOLOGY (3) A study of the major myths of the ancient Near Eastern peoples, primarily through artifacts and works of art, highlighting the meaning and influence of its myths.
CLAS 250 NEAR EASTERN MYTHOLOGY (3) A study of the major myths of the ancient Near East, primarily through its surviving literature, highlighting the meaning and influence of its myths.
CLAS 25I GREEK ARCHAEOLOGY (3) The major monuments of Greek antiquity explored as a backdrop to the art, history, and literature of ancient Greece.
CLAS 252 ROMAN ARCHAEOLOGY (3) The major monuments of Roman antiquity explored as a backdrop to the art, history, and literature of ancient Rome.
CLAS 270 ART, ARCHITECTURE, ECONOMY \& SOCIETY IN LATE ANTIQUITY (3) A study of the coexistence of several religious and ethical systems, highlighting symbiosis and cross-fertilization. Fulfills the E/R\&S Focus elective. Prerequisite/ Corequisite: PHIL 100 and THEO 111.
CLAS 320 WOMEN IN ANTIQUITY (3) A study, through the use of literary, archaeological, religious, and mythological data, of the lives of Greek and Roman women from the Bronze Age through the Roman Empire.
CLAS 345 INTRODUCTION TO THE CHURCH FATHERS (3) (THEO 217) The first centuries of Christianity as reflected in the patristic writers. The chief Fathers. The evolution of doctrine. The unfolding of revelation. The consciousness of the indwelling spirit.

# Communication Arts (COMM) 


#### Abstract

General Courses COMM 100 SURVEY OF COMMUNICATION STUDIES (3) Surveys the development of major areas of study in communication. Fulfills Cultural Diversity Elective. COMM 101 ORAL COMMUNICATION (3) Speech fundamentals as applied to public speaking and listening skills. COMM 103 HUMAN COMMUNICATION (3) Speech fundamentals as applied to public speaking, interpersonal communication and group dynamics. NOTE: not available to Communication Arts majors. COMM 106 EFFECTIVE WRITING (3) Creative solutions to writing problems in a variety of practical and theoretical situations. COMM 110 ART OF THE FILM (3) Film as a modern art form, treating sound, motion, editing, light, acting, director's style, and film analysis. COMM 111 FILM HISTORY AND DIRECTORS (3) Motion picture history with a focus on certain great directors. COMM 112 MEDIA AESTHETICS (3) Principles of visual and aural aesthetics especially as applied to television and motion pictures. COMM 113 NONFICTION FILM (3) Development of the nonfiction film from Flaherty to "cinema of truth." Current documentaries on controversial topics will be stressed. COMM 114 FILM CRITICISM (3) Cultivating criteria for judging films from viewing and analysis. Leading theories studied.


COMM 199 SPECIAL STUDY (1-3) An in-depth study of a specific topic or area in communication. Prerequisite: Permission of adviser.
COMM 202 PERFORMANCE STUDIES : PERFORMING TEXTS (3) The study, through analysis and individual performance, of a variety of aesthetic texts: interpersonal, literary, and cultural.
COMM 203 PERFORMANCE STUDIES: STAGING TEXTS (3) Theory and practice of staging aesthetic text for group performance with emphasis on adapting, compiling, and directing. Texts may include literature, ethnographic material, music, recorded conversations and mediated images.
COMM 207 INTERPERSONAL COMMUNICATION (3) Understanding of and classroom practice in effective communication between persons.
COMM 209 GROUP DYNAMICS (3) Dynamic and participative strategies in group process skills. Learn by participating and doing.
COMM 216 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.
COMM 217 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.
COMM 218 INTRODUCTION TO THE THEATER (3) Designed to acquaint students with the operation and administration of professional theater.
COMM 222 COMMUNICATION THEORY (3) Nature, purpose, scope, and process of communication. Models, learning, language, and certain theories.
COMM 223 SURVEY OF MASS MEDIA (3) Models and processes of mass communication, including electronic media, advertising, film, records, etc.
COMM 224 INTERCULTURAL COMMUNICATION (3) This course looks at the variety of ways cultures can influence the way we use and interpret formal and informal communication, and what that means to us as citizens of the world.
COMM 292 THEATRE: PERFORMING THE CLASSICS (1)
COMM 293 BEHIND THE SCENES: THEATRE DIRECTING (1)

COMM 295 THEATRE: PERFORMING THE MODERNS (1)
COMM 296 DELIVERING TEXT: PROSE AND POETRY (1)
COMM 297 AMERICA THROUGH LENS: CULT MESSENGER (2)
COMM 299 SPECIAL STUDY (1-3) An in-depth study of a specific topic or area in communication. Prerequisite: Permission of Adviser.
COMM 301 PRESENTATIONAL SPEAKING (3) Preparation and delivery of oral presentations for business and professions. Emphasizes persuasion, evidence, organized sequences, and uses of multimedia aids. Prerequisite: COMM 101.
COMM 310 THE HORROR FILM (3) An analysis and history of the horror film with attention to the myths behind the subject matter.
COMM 311 HISTORY OF THE WESTERN FILM (3) An analysis and history of the western film with attention to the reality and nyyths behind the subject matter.
COMM 312 HISTORY OF THE DETECTIVE FILM (3)
COMM 316 PHOTOGRAPHY II (3) Lecture-lab experience to improve skills in creating and developing quality photographs. Prerequisite: COMM 216 or approval of the instructor.
COMM 317 ACTING II (3) Intensive study of acting theory and practice. Prerequisite: COMM 217 or approval of instructor.
COMM 318 DIRECTING FOR THE STAGE (3) A practical course exploring the artistry and technique of the stage director. Work required on main stage productions. Prerequisite: COMM 217 or approval of instructor.
COMM 327 INTERPERSONAL CONFLICT MANAGEMENT (3) An examination of the process nature of conflict and an evaluation of various conflict styles.
COMM 329 COMMUNICATION RESEARCH TECHNIQUES (3) Studies the major techniques for conducting research for communication; primary and secondary research.
COMM 399 SPECIAL STUDY (1-3) An in-depth study of a specific topic or area in communication. Prerequisite: Permission of adviser.
COMM 403 ARGUMENTATION AND DEBATE (3) Practice in the skill of reasoned argumentation, research and analysis through the debate activity. Prerequisite: COMM 101 or approval of instructor.
COMM 406 TECHNICAL WRITING (3) An examination of those particular writing skills used in the development of training materials.
COMM 410 WAR AND PEACE IN LITERATURE AND FILM (3) Treatment of war and peace in the media from Civil War to Vietnam War.
COMM 411 SHORT STORY/SHORT FILM (3) A detailed study of the film versions of some famous short stores. Comparisons and contrasts will illuminate the author's point-of-view behind the changes involved.
COMM 423 GENDER AND COMMUNICATION (3) An examination of gender differences in communication and how they impact our daily lives.
COMM 424 NONVERBAL COMMUNICATION (3) The study of the various components of nonverbal communication and how they greatly influence our lives in many arenas, including the family, politics, and the workplace.
COMM 499 SPECIAL STUDY (1-3) An in-depth study of a specific topic or area in communication. Prerequisite: Permission of adviser.

## COMMUNICATION ARTS: ADVERTISING

The goal of the advertising area is to prepare students for a career in the field of advertising. This program offers a comprehensive study of advertising including the principles of advertising, copywriting, media planning, research, and management. Students work closely with the faculty and their academic advisors in planning their course of study and career options.
COMM 230 INTRODUCTION TO ADVERTISING (3) A comprehensive examination of the advertising process and the principles involved in its preparation and production. Focus is on the three major components of advertising: the audience, the message and the channels.

COMM 231 ADVERTISING PRODUCTION TECHNIQUES (3) The objective of this course is to familiarize the advertising major with the fundamentals of producing advertisements for print and the electronic media.
COMM 232 DESK TOP PUBLISHING (3) Teaches the student the skills required to produce advertising layouts, newsletters and presentation materials, using computers and desktop publishing software programs in Xavier University's computer laboratories.
COMM 330 CREATIVE CONCEPTS IN ADVERTISING (3) This course analyzes the creative, research, and business principles involved in the preparation of the advertising message. It focuses on the copywriting and design process, and the development of the advertising campaign. Prerequisite: COMM 230.
COMM 332 MEDIA PLANNING (3) A study of the characteristics of the various communication media and the methodologies employed in measuring their relative efficiencies in delivering the advertising messages to the target audiences. Prerequisite: COMM 230.
COMM 334 ADVERTISING IN MODERN SOCIETY (3) This course examines the complex role that advertising plays in our society, from its economic importance to its social effects.
COMM 338 INTERNSHIP IN ADVERTISING I (3) Practical experience in a real world situation.
COMM 430 ADVERTISING CAMPAIGNS (3) Case histories of recent brand advertising campaigns conducted by U.S. companies and practical experience in developing campaigns for real brands using real background data.
COMM 432 DIRECT RESPONSE ADVERTISING (3) Examines the structure and organization of direct response advertising. Focus will be on the creative methods and research procedures for preparing and evaluating direct advertising campaigns.
COMM 438 INTERNSHIP IN ADVERTISING II (3) Practical experience in a real world situation.
COMM 439 SENIOR SEMINAR: ADVERTISING PRACTICE AND MANAGEMENT
(3) This course examines how advertising is applied and managed in order to achieve an organization's marketing objectives. Utilizes materials taught in other advertising courses. Prerequisites: COMM 330, COMM 332.

## COMMUNICATION ARTS: ELECTRONIC MEDIA

The Electronic Media major will prepare students for entry-level positions in radio, television, cable, and corporate video. The program emphasizes those skills which are necessary for work in both the commercial and noncommercial broadcast areas, as well as corporate uses of the electronic media.
COMM 240 FUNDAMENTALS: ELECTRONIC MEDIA (3) History and current developments. Basic technical matters which dictate the shape and form of the electronic media.
COMM 250 VIDEO PRODUCTION AND TECHNOLOGY (3) Operation of video equipment including cameras, switcher, audio, character generator, VTRs and lighting. Basic video production techniques (studio and field) including $3 / 4$ " editing.
COMM 254 TELEVISION PROGRAM DEVELOPMENT (3) The design, development, and scripting of professional-level programming. Stresses critical thinking, organization, imagination, and communication strategies.
COMM 340 AUDIO PRODUCTION AND TECHNOLOGY (3) Technical and theoretical basis. Techniques of tape editing, special effects, commercial production, and documentary production. Lab.
COMM 341 RADIO LAB (3) Advanced experience in production and public radio operationsWVXU. Prerequisite: COMM 340 or permission of advisor.
COMM 343 RADIO/TV/CABLE PROGRAMMING (3) The practical and theoretical world of programming for the electronic media. Prerequisite: COMM 240.

COMM 344 BROADCAST ANNOUNCING (3) Principles, preparation, and delivery of announcements, newscasts, and other projects. Prerequisite: COMM 340.
COMM 345 INTRODUCTION TO BROADCAST JOURNALISM (3) Survey of the structures and principles of radio and television news reporting and writing. Prerequisite: COMM 240.
COMM 346 INTRODUCTION TO BROADCAST WRITING (3) Survey of writing styles used in the broadcast industry, including advertising, journalism, and script writing. Prerequisite: COMM 240.
COMM 347 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: COMM 240.
COMM 348 INTERNSHIP: ELECTRONIC MEDIA/RADIO I (3) Practical experience in a real-world situation.
COMM 350 TELEVISION LAB (3) Experience in TV production or research. Prerequisite: COMM 250.
COMM 352 TELEVISION NEWS PRODUCTION (3) Introduction to the process of assembling and producing local television news programs.
COMM 353 TELEVISION ON-CAMERA PERFORMANCE (3) Basic skills, techniques and procedures for on-air talent to develop a professional level of performance for news, public affairs, talk shows and commercials.
COMM 355 TELEVISION SCRIPT WRITING (3) Introduction to the writing skills and mechanics of creating scripts for television.
COMM 357 TELEVISION SPORTS REPORTING (3) What is covered, how it is coveredand why it is covered. Production, reporting, writing, videography, editing, on-the-air presentation, programming, play-by-play, and promotion.
COMM 358 INTERNSHIP: ELECTRONIC MEDIA/TV I (3) Practical experience in a real world situation.
COMM 440 ADVANCED AUDIO PRODUCTION (3) Continuation of COMM 340 for students interested in professional audio engineering. Prerequisites: COMM 340 and approval of advisor.
COMM 444 RADIO REPORTING AND PERFORMANCE (3) Gathering and reading of news, in-person and telephone interviews. News delivery styles. "Air-check" tape. Lab.
COMM 446 RADIO-TV NEWSWRITING (3) Styles and formats of broadcast newswriting.
COMM 447 BROADCAST MANAGEMENT (3) Study of station management, organization, and operational techniques. Prerequisite: COMM 240.
COMM 448 INTERNSHIP: ELECTRONIC MEDIA/RADIO II (3) Practical experience in a real world situation.
COMM 450 LIGHTING FOR TELEVISIONAND FILM (3) Opportunities to address a wide variety of lighting challenges. Students work in the studio and in the field on specific advanced lighting techniques. Prerequisite: COMM 250.
COMM 451 INTRODUCTION TO VIDEO GRAPHICS (3) Creative elements of conceptualizing, generation and 2D animation within a high resolution paint system. Integration of paint system with live/tape video and character generation.
COMM 453 VIDEO POST-PRODUCTION (3) Operation of advanced post-production system. A/B Time Code Editing, switcher effects, electronic graphics and video paint system operation. Prerequisite: COMM 250 or approval of instructor.
COMM 454 TELEVISION DIRECTING (3) Focus on developing creativity in context of directing in front of and behind the camera and from the control room. Prerequisite: COMM 250.
COMM 455 LIFE-STYLES AND WORKPLACES IN TV AND FILM (3) Production and marketing approaches for the visual media as demonstrated by professionals in the field. Prerequisite: COMM 250.
COMM 456 ADVANCED TELEVISION PRODUCTION (3) Students produce a scripted program. Focus on production values contributing to a professional quality program. Prerequisite: COMM 250.

COMM 457 CAMERAWORK IN TV \& FILM (3) Intensive focus on camera technique and operation for film and television. Prerequisite: COMM 250.
COMM 458 INTERNSHIP: ELECTRONIC MEDIA/TV II (3) Practical experience in a real world situation.

## COMMUNICATION ARTS: ORGANIZATIONAL COMMUNICATION

The Organizational Communication area will provide students with the knowledge and skills necessary for successful communication within organizations in both the public and private sectors. This major emphasizes the close relationship between effective communication and the successful operation of all organizations. Course content focuses on organization and communication theory, the development of personal and group oral and written communication skills, and on instilling the sense of social and ethical responsibility necessary for all members of an organization.

Students are encouraged to prepare themselves for a broad range of employment possibilities. which may include internal and external written communication, training, instructional development, special events planning and coordination, sales, marketing, speech writing, and promotions.
COMM 260 ORGANIZATIONAL COMMUNICATION (3) Organization theories and key concepts provide the framework for addressing contemporary communication issues and how these issues affect individual, group, and organization performance and effectiveness. Prerequisite: COMM 207 or permission of instructor.
COMM 264 PERSUASION (3) The focus of this course is on teaching consumers of information how to analyze, respond to, and generate persuasive messages. A variety of organizational contexts will be examined, including politics, business, religion, and advertising.
COMM 360 ORGANIZATIONAL COMMUNICATION THEORY (3) Examines the theories which guide communication processes in organizations and how they influence coordination, motivation, leadership and productivity.
COMM 363 WRITTEN COMMUNICATION IN ORGANIZATIONS (3) Concepts which guide the writing of organizational communication professionals and practical application of those concepts. Standards of correctness are expected.
COMM 366 COMPUTER APPLICATIONS IN ORGANIZATION COMMUNICATION (3)

COMM 368 INTERNSHIP IN ORGANIZATIONAL COMMUNICATION I (3) Practical experience in an organizational setting. Consult with your advisor for qualifications and requirements.
COMM 460 ADVANCED ORGANIZATIONAL COMMUNICATION (3) Critical case study analysis of communication processes and practices. Along with the analyses, students will be expected to construct proposals for interventions.
COMM 462 PRINCIPLES AND PRACTICES OF INTERVIEWING (3)This course teaches students the concepts behind and the skills to conduct the different kinds of interviews necessary for success in the organization, including employment, research and appraisal interviews.
COMM 467 CURRENTISSUES IN ORGANIZATIONAL COMMUNICATION (3) An indepth look at the most important communication problems and challenges facing organizations today.
COMM 468 INTERNSHIP IN ORGANIZATIONAL COMMUNICATION II (3) Practical experience in an organizational setting. Consult with your advisor for qualifications and requirements.
COMM 469 SENIOR SEMINAR: ORGANIZATIONAL COMMUNICATION (3) The capstone course of the organizational communication major, this course asks students to use and reflect on the theories and skills they have learned throughout the major. Prerequisite: Senior status.

## COMMUNICATION ARTS: PUBLIC RELATIONS

The Public Relations major combines comprehensive theory and specific practical skills, in the context of a humanistic liberal education, to prepare students for public relations careers in the corporate, private nonprofit, and public sectors; or for a broad range of other careers that benefit from careful thinking and clear communication.
COMM 270 PRINCIPLES OF PUBLIC RELATIONS (3) Presents an overview of the theories and practices of public relations, its function in organizations, its history and development, and its role in society.
COMM 271 PUBLIC RELATIONS WRITING (3) Develops skills in public relations writing, primarily for print media, including both public media and controlled media; laboratory approach includes writing with a computer. Prerequisite: ENGL 101 or ENGL 115.
COMM 272 PUBLIC RELATIONS PUBLICATION TECHNIQUES (3) Develops skills in desktop publishing, as well as familiarity with traditional production techniques, to produce newsletters, brochures, flyers and other printed material used in public relations, Prerequisite: ENGL 101 or ENGL 115.
COMM 275 NEWS WRITING (3) Develops skills used in writing for the printed public news media, as well as a journalistic perspective. Prerequisite: ENGL 101 or ENGL 115.
COMM 276 COPY EDITING (3) Develops skills used in proofreading, rewriting, revising and editing copy, to effect a readable, contemporary style for print media. Prerequisite: ENGL 101 or ENGL 115.
COMM 277 NEWS REPORTING (3) Develops skills used in the public news media to cover events, speeches and other news under deadline pressures; includes research and interviewing techniques. Prerequisite: ENGL 101 or ENGL 115.
COMM 278 BASICS OF PUBLISHING (3) Presents the processes employed in publishing both public and controlled print media; includes both traditional and desktop publishing techniques.
COMM 370 MEDIA AND PUBLIC RELATIONS (3) Presents the advanced practice of public relations, giving particular attention to the design and management of publicity and programs that deal effectively with the news media. Prerequisites: COMM270 and COMM 271.
COMM 371 ADVANCED PUBLIC RELATIONS WRITING (3) Develops advanced writing skills for public relations programs; gives particular attention to backgrounds, brochures, handbooks, annual and quarterly reports, and scripts for broadcast, AV and film. Prerequisite: COMM 271 or approval of coordinator.
COMM 374 MEDIA ETHICS (3) An examination of ethical problems within the mass media.
COMM 375 FEATURE WRITING FOR PUBLICATION (3) Develops skill in writing feature articles for print media. Prerequisites ENGL 101 or ENGL 115 ; plus at least one additional college writing course.
COMM 376 PUBLIC RELATIONS AND FUND RAISING FOR NONPROFIT ORGANIZATIONS (3) Presents the principles and practices of pubic relations and fund raising as applied in the nonprofit sector, including such fields as human services, education, health care, the arts and culture, social action, and religion. Prerequisite: Junior status.
COMM 377 PUBLIC RELATIONS IN BUSINESS AND INDUSTRY (3) Presents the principles and practices of public relations as applied in the business and industrial sector; gives particular attention to such areas as employee relations and unionization, investor relations, marketing communications, and regulatory and governmental affairs. Prerequisite: Junior status.
COMM 378 INTERNSHIP: PUBLIC RELATIONS I (3) Provides students with hands-on experience in a real public relations setting, under the direct supervision of a professional public relations practitioner. Prerequisites: 15 hours of Communication Arts, including COMM 270 and COMM 271; Junior status and approval of the coordinator of the public relations major.

COMM 470 GOVERNMENT PR \& PUBLIC AFFAIRS (3)
COMM 471 WRITING FOR CORPORATE COMM (3)
COMM 474 LAW AND ETHICS IN MASS COMMUNICATION (3) Important ethical and legal issues which affect contemporary mass communication.
COMM 477 SENIOR SEMINAR: PUBLIC RELATIONS MANAGEMENT (3) Presents management theories and techniques as applied to public relations activities and functions; workshop approach provides students skills for developing public relations campaigns. Prerequisites: 15 hours of Communication Arts, including COMM 270 and COMM 271. Prerequisite: Senior status.
COMM 478 INTERNSHIP: PUBLIC RELATIONS II (3) Provides students with advanced hands-on experience in a real public relations setting, under the direct supervision of a professional public relations practitioner. Prerequisites: 21 hours of Communication Arts, including COMM 378; Senior status and approval of the coordinator of the public relations major.
COMM 479 PUBLIC RELATIONS ETHICS IN MODERN SOCIETY (3) A comprehensive Senior-year seminar that examines the major ethical and legal principles that guide the responsible practice of professional communications in American society. Prerequisite: Senior status.

# Computer Science (CSCI) 

## Lower Division Courses

CSCI 110 COMPUTERS: AN OVERVIEW (3) Basic introduction to computers without programming. Terminology, technology, history, communications, databases. Information gathering. Selected topics. Hands-on experience.
$\operatorname{CSCI} 124$ BASIC PROGRAMMING (1) Introduction to Xavier timesharing system, elements of the BASIC language, programming elementary problems.
CSCI 134 BASIC II (3) Continuation of CSCI 124. Selected additional features of the BASIC language. Prerequisite: CSCI 124.
CSCI 160 CONCENTRATED PASCAL (1) Basic syntax of the Pascal programming language, including input/output, assignments, conditional statements, loops, and subprograms.
CSCI 170 COMPUTER SCIENCE I (3) This course is an overview of computer science. Topics include problem solving and algorithms, machine architecture, operating systems, assembly language, higher level programming languages, compilers, limits of computation, networking, applications, and social/ethical issues. Corequisite: CSCl 172 for CSCI majors/minors.
CSCI 172 COMPUTER SCIENCE I LAB (1) Introduction to the basic syntax of a programming language for majors/minors. It is recommended this course be taken concurrently with CSCI 170 . Corequisite: CSCI 170.
CSCI 174 PROGRAMMING IN "C" (1) Introduction to the basic syntax of C through a series of weekly two-hour laboratory exercises and programming projects. Prerequisites: CSCI 170, CSCI 180 or consent of instructor.
CSCI 175
C/C++ (3) Structured programming and problem solving. Data manipulation, functions, arrays, structures, pointers, and files. Fundamental algorithms. Prerequisite: Proficiency in a structured computer language such as PASCAL.
CSCI 180 COMPUTER SCIENCE II (3) Program design: advanced syntax of a programming language; dynamic memory; recursion; sorting; searching; stacks; queues; social and ethical issues related to software design and reliability. Prerequisites: CSCI 170, CSCI 172 or CSCI 160.

## Upper Division Courses

CSCI 210
$\operatorname{CSCl} 220$
$\operatorname{CSCI} 250$

CSCI 260
$\operatorname{CSCI} 300$
$\operatorname{CSCl} 310$

MACHINE ORGANIZATION AND ASSEMBLY LANGUAGE (3) Machine level representation of data, assembly level machine organization, memory system organization and architecture, number representation and errors, assembly language. Prerequisite: CSCI 170.
CSCI 220 DATA STRUCTURES AND ALGORITHMS (3) Trees, hashing, advanced sorts, numerical algorithms, algorithm analysis, algorithm design and problem solving strategies. Prerequisites: CSCI 180, MATH 180.
LANGUAGES AND AUTOMATA (3) Finite-state-automata and regular expressions, context-free grammars, pushdown automata. Turing machines, computability and undecidability, complexity classes. Prerequisites: MATH 180, CSCI 170; CSCI 180 recommended.
SOFTWARE ENGINEERING (3) Software development process; software requirements and specifications; software design and implementation; verification and validation. Prerequisite: CSCI 220
PROGRAMMING LANGUAGES (3) History of programming languages; virtual machines; sequence control; data control; scoping, parameter passing; sharing and type checking; run-time storage management; programming language semantics; programming paradigms. Includes a brief introduction to several different languages as examples of paradigms. Prerequisites: CSCI 220, CSCl 250.
COMPILER CONSTRUCTION (3) Study of grammars, syntax, semantics, interpreters, and compilers. Including the construction of a simple language and a compiler/interpreter. Prerequisites: CSCI 220, CSCI 250; CSCl 260 is recommended.

CSCI 320 OPERATING SYSTEMS (3) Operating system software and hardware design and implementation; tasks and processes; process coordination, synchronization, and scheduling; physical and virtual memory organization; file systems and naming; security and protection. Prerequisites: CSCI 210, CSCI 220, CSCI 260 is recommended.
CSCI 321 NUMERICAL ANALYSIS (3) (MATH 321) Accuracy; function evaluation and approximation; systems of linear equations; nonlinear equations; numerical differentiation and integration; solutions to differential equations. Prerequisites: CSCI 180, MATH 171.
CSCI 330 ADVANCED/APPLIED SYSTEMS (3) Databases design, relational database model, human-user interfaces, computer graphics, networking, device management, distributed and real-time systems. Prerequisites: CSCI 320, CSCI 210; MATH 210 is recommended.
CSCI 350 ADVANCED ALGORITHMS AND THEORY (3) Advanced algorithm design and analysis of algorithms; NP-Completeness, parallel algorithms; heuristic techniques for intractable problems. Prerequisites: CSCI 220; CSCI 250 is recommended.
CSCI 370 ARTIFICIAL INTELLIGENCE (3) Methods of problem solving in artificial intelligence. Heuristics, evaluation functions, search strategies, and a survey of AI projects. Introduction to LISP or other language used for AI programming. Prerequisite: CSCl 220.
$\operatorname{CSCl} 380$ TOPICS IN COMPUTER SCIENCE (1-3) Advanced computer science topics, specified by instructor.
CSCI 390 SENIOR SEMINAR AND PROJECT (2-3) Design, implementation, documentation, and presentation of a significant computer science project. Prerequisite: Senior computer science major.
CSCI 397 SPECIAL READINGS IN COMPUTER SCIENCE (3).

## Criminal Justice (CJUS)

CJUS 101 INTRODUCTION TO CRIMINAL JUSTICE: POLICE, COURTS AND CORRECTIONS (3) (SOCW 101) An overview of the history and legal basis of the criminal justice system, its structures, its functions and interface with the individual elements.

CJUS 103 INTRODUCTION TO CORRECTIONS: PRACTICE \& PROCEDURES

CJUS 102

CJUS 167

CJUS 210

CJUS 230

CJUS 233

CJUS 239

CJUS 240

CJUS 243

CJUS 245

CJUS 246

INTRODUCTION TO LAW ENFORCEMENT (3) Overview of policing problems and procedures; legal and philosophical issues in law enforcement; organization and administration of police agencies.
(3) Explores both institutional and noninstitutional corrections in contemporary society. The operations of prisons and jails and their internal procedures, including safety, security, supervision, classification and programming, are explored, along with alternatives to incarceration, and probation and parole. All of these are reviewed in relation to contemporary social and political realities, along with their ethical dimension.
INTRODUCTION TO SOCIAL WORK (3) (SOCW 167, SOCI 167) An elective course dealing with types and causes of juvenile delinquency together with brief case history analysis.
BASIC CONSTITUTIONAL LAW AND AMERICAN JUSTICE I (3) Examines the principles, structures and functions of the courts. Special emphasis is given to rights and obligations of various role players in the criminal justice system, including especially those who work within the correctional facilities.
BASIC CONSTITUTIONAL LAW AND AMERICAN JUSTICE II (3) Emphasizes application to issues of jurisdiction, processes and constitutional principles affecting them. Special focus is given to management and procedural issues, and this course, in combination with the previously listed CJUS 210, presents a very strong treatment of all legal and ethical issues.
HUMAN DIGNITY IN THE HELPING PROFESSIONS (2-3) An overview of humanistic approaches to the helping professions and their application to corrections. Effective communication, emotional involvement, and development of professional interpersonal relationships are studied in detail. This elective course complements the required course CJUS 243, Correctional Counseling and Communication.
INTRODUCTION TO FORENSIC SCIENCE (3) Study of legal scientific physical evidence: e.g. fingerprinting, DNA analysis and famous crime scene investigations.
CRIMINAL LAW (3) An overview of law in society, and especially the development, substance and application of the criminal law. This elective course complements the two courses in constitutional law and adds a strong legal and ethical component.
CORRECTIONAL COUNSELING AND COMMUNICATIONS (3) is required and deals directly with necessary verbal, nonverbal and writing skills. It also emphasizes cross-cultural communications and presents practical skills exercises
relating to all of the above.
PRIVATE SECURITY
RIVATE SECURITY (3) This course provides a rigorous introductory foundation to the field of Private Security, including its development, philosophies, responsibilities and functions, plus its principles, legal authority, and effects on society.
RISK MANAGEMENT (3) This course presents a rigorous introduction to the theoretical concepts of Risk Management, through various analytical concepts, survey techniques, insurance requirements, program development and operational activities, from a security practitioner's perspective.

CJUS 434
CJUS 391

CURRENT ISSUES IN CRIMINAL JUSTICE (3) (SOCW 260) A required course which complements CJUS 101 Introduction to Criminal Justice: Police, Courts and Corrections; CJUS 103 Introduction to Corrections: Practice and Procedures: CJUS 621/321 Juvenile Justice in a Changing Society; and relates numerous current political and social issues to adult and juvenile corrections.
and Class Conflict (3) (soct 365) Class, status, and power in social life. Systems of social inequality examined within a cross-cultural perspective.
CRIME AND PERSONALITY (3) (CJUS 566. EDCL 266/566, PSYC 366) An elective course which complements the required CJUS 366 Understanding Juvenile and Adult Offender Behavior. This course deals with the root causes of crime in the individual and in the culture. Consideration of personality dynamics and treatment approaches are major elements of the course.
PSYCHOLOGY OF DELINQUENCY (2) (CJUS 676, PSYC 276, EDCL 276) An elective course dealing with types and causes of juvenile deliquesce together with brief case history analysis
JUVENILE JUSTICE IN A CHANGING SOCIETY (3) (SOCW 221) A required course which emphasizes juvenile court philosophy and practices, prevailing case law, applicable federal and state legislation, current trends and development of standards, alternatives to incarceration, comparison of the treatment of the juvenile offender in the juvenile justice system as opposed to the adult system, and a historical overview.
CAPITAL PUNISHMENT: OTHER ISSUES IN PUNISHMENT (3) Presents very thoroughly the debate on the effectiveness, desirability, and especially the ethics of capital punishment. While this is an elective course, it is a very strong course and the morality of the death penalty is a major component.
UNDERSTANDING JUVENILE AND ADULT OFFENDER BEHAVIOR (3) This required course explores types of offenders, including special issues of women and offenders with special needs, the origins of criminal behavior, and subcultures.

SPECIAL READINGS IN CRIMINAL JUSTICE (3) A selective number of texts, periodicals, research papers, etc., related directly to areas of criminal justice are reviewed and student reports critiqued.

## Graduate Courses

CRIME \& PERSONALITY (3) (CJUS 266, EDCL 266/566, PSYC 366) An elective course which complements the required CJUS 366 Understanding Juvenile and Adult Offender Behavior. This course deals with the root causes of crime in the individual and the culture. Consideration of personality dynamics and treatment approaches are major elements of the course.
cus 61

Cus 6
cus

CJUS 636

CRIMINOLOGY (3) Presents and analyzes multiple theories in the etiology of crime; both internal and external theories of causality are explored; presents and contrasts several societal reactions to the crime complex; and critically evaluates numerous contemporary methodologies. Learning Theories, Subcultural Theories, Theories of Limited Opportunity Structure, etc., are examined to enhance student's understanding of typologies of offender behavior and offense types. Offenders with special needs, cultural diversity, women's issues and chemical dependency are all presented in relation to the crime complex in America today.
COMMUNITY-BASED CORRECTIONS (3). Theory and practice in noninstitutional model.
BASIC CONSTITUTIONAL LAW AND AMERICAN JUSTICE I (3) Examines the principles, structures and functions of the courts. Special emphasis is given to rights and obligations of various role players in the criminal justice system, including especially those who work within the correctional facilities.
LAW AND JUSTICE IN AMERICA (3) Presents legal issues in criminal justice, including the rights of workers in the correctional and other settings, pertinent Supreme Court decisions, and case law covering rights of inmates, clients, and staff at all levels; analyzes common grievances and legal problems existing in various settings of practice; interprets the role of lawyers at the various levels of the system and requires the student to actually prepare a legal brief related to particular points of law.
SOCIOLOGY OF CRIME AND DELINQUENCY (3) Social foundations of the criminal justice system are examined, along with the social causation of crime and societal response. The understanding of crime within the social context is presented along with in-depth exploration of cross-cultural, subcultural and other demographic expositions.
JUVENILE JUSTICE IN A CHANGING SOCIETY (3) Critiques the development of social control of child behavior in the U.S. from its historical roots to contemporary times. Presents and analyzes legal trends in juvenile court and correctional operations and evaluates contemporary practice and methodology in the juvenile justice system and in the adult system. Landmark legal cases from Kent v. U.S. through Shall v. Martin and other currently prevailing decisions are related to their impact on current practice. Concepts such as waiver, status offenders, and violence in contemporary society are given special attention in relation to their ethical and legal dimensions.
BASIC CONSTITUTIONAL LAW AND AMERICAN JUSTICE II (3) Em- phasizes application to issues of jurisdiction, processes, and constitutional principles affecting them. Special focus is given to management and procedural issues, and this course, in combination with the previously listed CJUS 210, presents a very strong treatment of all legal and ethical issues.
THE DISRUPTIVE CHILD (3) A view of children's behavior - disruptive vs. delinquent. Diagnosis, treatment, and other diversionary practices are studied.
UNDERSTANDING JUVENILE AND ADULT OFFENDER BEHA VIOR (3) This required course explores types of offenders, including special issues of women and offenders with special needs, the origins of criminal behavior, and subcultures.

CJUS 645

CJUS 646

CJUS 660

CJUS 664

CJUS 676

CJUS 683

CJUS 784

CJUS 792



CRIMINAL JUSTICE ADMINISTRATION (3) Presents organizational and management theories and practices within criminal justice settings. Management styles, management by objectives, total quality management, etc., are all related to issues of contemporary practice in prisons, probation, and parole and juvenile justice. Legal and ethical considerations are related to actual practice situations.
CORRECTIONAL COUNSELING AND COMMUNICATION (3) Deals directly with the necessary verbal, nonverbal and writing skills. It also emphasizes cross-cultural communication and presents practical skill exercises relating to all of the above.
PRIVATE SECURITY (3) This course provides a rigorous introductory foundation to the field of Private Security, including its development, philosophies, responsibilities and functions, plus its principles, legal authority, and effects on society to the present state.
RISK MANAGEMENT (3) This course presents a rigorous introduction to the theoretical concepts of Risk Management, through various analytical concepts, survey techniques, insurance requirements, program development and operational
activities, from a security practitioner's perspective.
CURRENT ISSUES IN CRIMINAL JUSTICE complements CJUS 101 Introduction to Criminal Justice: Police, Courts and Corrections; CJUS 103 Introduction to Corrections: Practice and Procedures; CJUS $621 / 321$ Juvenile Justice in a Changing Society, and relates numerous current political and social issues to adult and juvenile corrections.
OVERVIEW OF CONTEMPORARY CORRECTIONS (3)(CJUS 364, SOCW 265) Compares historical and contemporary methodologies; presents and critiques jail and prison programs and practices including issues of security, classification, etc.; applies pertinent court decisions to current practices and generally analyzes institutional and noninstitutional corrections in relation to today's social and political realities. Staff and inmate rights and responsibilities are presented with both their legal and ethical dimensions.
PSYCHOLOGY OF DELINQUENCY (2) (CJUS 276, EDCL 276, PSYC 276) An elective course dealing with types and causes of juvenile delinquency together with brief case history analysis.
RESEARCH AND PLANNING IN CRIMINAL JUSTICE (3) Social and policy science research designs applied to policy formulation, implementation and evaluation. Models are presented and analyzed and the link of research to practice is clearly established.
RESEARCH ESSAY: SEMINAR (3) Completion of an acceptable research paper. Individual research designs are directed and executed in the classroom setting.
INTERNSHIP (3) Non-classroom program of 300 clock hours placement in correctional, law enforcement, or court setting under academic supervision gives student opportunity to actually apply criminal justice theory, knowledge and intervention skills in the "real world" of law enforcement, court or correctional practice. Opportunity is presented to acquire understanding of the criminal justice complex and the service delivery system in the community. This "hands-on" experience enables students to begin to appreciate the need for functional professional relationships, differing organizational needs within the institutional or noninstitutional setting, and especially to evaluate their own response to the demands and challenges of actual work in a correctional setting. This is an essential part of the student's program and is absolutely required and can never be waived for graduation from the program.

# Economics (ECON) 

## Undergraduate Courses

ECON 200 MICROECONOMIC PRINCIPLES (3) Principles governing the efficient allocation of the nation's scarce resources. Economic behavior of consumers, producers, and resource owners.
ECON 201 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: ECON 200.
ECON 209 ECONOMICS AND PUBLIC ISSUES (3) Analysis of a series of public issues from economic and ethical perspectives. ECON 209 does not count as either an economics elective or a business elective, but does count as an E/R\&S Focus elective. Prerequisites: PHIL 100 and THEO 111, one must be prerequisite, the other either prerequisite or corequisite.
ECON 300 INTERNATIONAL TRADE \& BUSINESS ENVIRONMENT (3) An analysis of International Trade and Finance; the behavior of the multinational enterprise; the impact of the global economy on traditional business strategies. Prerequisite: ECON 201.

ECON 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. Prerequisite: ECON 201.
ECON 303 CO-OP EDUCATION/ECONOMICS: JUNIOR LEVEL (3-6) An elective cooperative experience where students earn academic credit while performing approved economic-related work experience. Prerequisite: MGMT 301, 55 credit hours completed, 2.750 gpa, department approval required.
ECON 305 MICROECONOMIC ANALYSIS (3) An in-depth study of consumer behavior, production costs, the firm, market structure, factor markets, and general equilibrium analysis. Prerequisite: ECON 201.
ECON 306 MACROECONOMIC ANALYSIS (3) Theoretical foundations of understanding GDP, inflation, unemployment, and economic growth. Controversies in modern macro theory. Prerequisites: ECON 201.
ECON 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. Prerequisite: ECON 201. Prerequisite/Corequisite to PHIL 100 and THEO 111. Fulfills the E/R\&S Focus elective.
ECON 320 NATURAL RESOURCE ECONOMICS (3) Economic analysis of managing the environment and allocating natural resources. Historical roots and ethical consequences of existing problems and policies are explored. Prerequisites: ECON 200; of PHIL 100 and THEO 111 one must be prerequisite and the other either prerequisite or corequisite; fulfills the $\mathrm{E} / \mathrm{R} \& \mathrm{~S}$ Focus elective.
ECON 323 INTRODUCTION TO MATHEMATICAL ECONOMICS (3) Synthesis of mathematical techniques and economic theory. A mathematical review of economic models, static equilibrium, comparative statics, optimization, dynamic analysis, and mathematical programming. Prerequisites: ECON 201, MATH 150.
ECON 330 COMPARATIVE ECONOMICSYSTEMS (3) Study of systemic properties of alternative capitalist, socialist, traditional, and utopian economies. Prerequisite: ECON 201.
ECON 340 UNITED STATES ECONOMIC HISTORY (3) Economic evolution of the U.S. from colonial times to the present. Prerequisite: ECON 201.
ECON 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. Prerequisite: ECON 201.

ECON 390 TOPICS IN ECONOMICS (3) Selected problems. Examples include: energy, natural resource, environmental and urban economics. May be taken for credit more than once. Prerequisite: ECON 20I.
ECON 398 SEMINAR: ENVIRONMENTAL STUDIES (3) (BIOL 398) A practicum which provides experience in measuring environmental damage and performing costbenefit analysis of alternative solutions. A local environmental issue is selected and each student is responsible for investigating a facet of the problem. The seminar format provides a mechanism for sharing ideas for proper procedure in investigating the problem, analyzing and interpreting data, and exploring the economic, ecological, and ethical consequences of alternative problem resolutions. Prerequisites: Ecology, BIOL 250/251, and Natural Resource Economics, ECON 320.
ECON 403 CO-OP EDUCATION/ECONOMICS: SENIOR LEVEL (3-6) An elective cooperative experience where students earn academic credit while performing approved economic-related work experience. Prerequisite: MGMT 301, 55 credit hours completed, 2.75 gpa, departmental approval required.
ECON 406 ADVANCED MACROECONOMICS (3) Detailed study of varying topics in macroeconomic analysis. Prerequisite: ECON 306.
ECON 410 APPLIED 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: ECON 305 or 306; STAT 200.
ECON 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: ECON 305.
ECON 440 PUBLIC FINANCE (3) Role of government in the economy. An analysis of the principles of government expenditure and taxation. Prerequisite: ECON 305 .
ECON 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. Prerequisite: ECON 305. Pre or Corequisite: ECON 306.
ECON 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. Prerequisite: ECON 305.
ECON 495 MANAGERIAL ECONOMICS (3) Applied microeconomic analysis for deci-sion-making within the business firm. Emphasis on forecasting, demand and cost estimation, pricing techniques, project and risk evaluation. Prerequisites: ECON 305, MATH 156.
ECON 499 TUTORIAL COURSE (1-3) Special reading and study for advanced students. Approval of department chair and dean required.

## Graduate Courses

ECON 801 MACROECONOMIC ANALYSIS (2) Introduction to the economic way of thinking: scarcity, choice, opportunity cost, comparative advantage, and supply and demand analysis. Basic macroeconomic terminology. The aggregate demand explanation of economic fluctuations. Introduction to fiscal and monetary policy.
ECON 802 MICROECONOMIC ANALYSIS (2) Implications of rational decision-making for consumer and business behavior. Allocation of resources in market economies; concepts of economic efficiency and market failure. Impact of market structure on performance and behavior of firms. Prerequisite: ECON 801 or equivalent.
ECON 901 GLOBAL ECONOMIC ENVIRONMENT (2) Description and analysis of macroeconomics policies in a global environment, with emphasis on how international trade and capital flows affect the impact of monetary, fiscal, and supply-side policies on traditional macroeconomic variables. Prerequisites ECON 801 , and 802 or equivalent.
ECON 902 MANAGERIAL ECONOMICS (3) Economic analysis as applied to practical business operations. Topics include demand analysis, forecasting, cost analysis, and pricing techniques. Prerequisite: ECON 901. of trade, internationalization of businesses, role of governments. Mechanics of financing foreign trade and investment. Prerequisite: ECON 801.
ECON 932 BUSINESS FORECASTING (3) Development and application of statistical techniques used in short-term forecasting. Prerequisites: STAT 80I and ECON 901.
ECON 935 BUSINESS AND PUBLIC POLICY (3) Analysis of the role and impact of public policy in a market environment including an analysis of the causes and consequences of market failure, antitrust legislation and enforcement issues, and social regulation such as consumer and environmental protection legislation. Prerequisite: ECON 901.

ECON 990 SEMINAR: CURRENT ECONOMIC PROBLEMS (3) Topics selected from current significant theory and policy issues. Prerequisite: ECON 901.
ECON 995 INDIVIDUAL READINGS AND RESEARCH (2-3) Open to especially qualified students with the consent of the department chair and dean.

## Education

## ADMINISTRATION

## Graduate Courses

EDAD 541 ELEMENTARY SCHOOL ADMINISTRATION (3) Criteria for an effective elementary school organization. Patterns of school organization, administrative problems, conflict resolution and interpersonal relations, management.
EDAD 542 SECONDARY SCHOOL ADMINISTRATION (3) Organization of secondary schools, techniques of schedule making, administrative problems, management, conflict resolution, and interpersonal relations.
EDAD 543 SUPERVISION OF INSTRUCTION (2) Theory and application of instructional supervision. Diagnosis of learner needs, appropriate instructional strategics.
EDAD 544 ELEMENTARY CURRICULUM (2).
EDAD 545 SECONDARY CURRICULUM (2).
EDAD 547 CONTEMPORARY PROBLEMS OF EDUCATION (1-3).
EDAD 560 PUPIL PERSONNEL ACCOUNTING AND RECORDS MANAGEMENT (3) Designed to prepare Kentucky school personnel for Director of Pupil Personnel.
EDAD 561 ADMINISTRATION OF PUPIL PERSONNEL SERVICES (2) Duties and functions involved in administering pupil personnel services and in pupil accounting. Responsibilities of the director of pupil personnel. Systematized records management.
EDAD 562 POLITICAL STRUCTURES AND PUBLIC RELATIONS (3) Relations of school and community. Effective use of public relations media - press, radio, television. The political system, structures, and schools.
EDAD 563 SCHOOL BUSINESS AFFAIRS AND PHYSICAL FACILITIES (3) Budgetary control, purchasing, food, supplies, equipment and machinery, school insurance, plant rccords, maintenance and repair, pupil transportation, utilization of facilities. In addition, the school construction process is reviewed and analyzed.
EDAD 564 ADMINISTRATION OF STAFF PERSONNEL (3) Staff personnel program, hiring, fringe benefits, salary schedules, staff development and evaluation. Em-ployer-employee relations, collective bargaining and contract management.
EDAD 565 SCHOOL LAW I (3) Legal framework within which schools operate. Federal and state precedents. State code. Legal provisions for school finance.
EDAD 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.
EDAD 568 SUPERVISORY PRACTICUM (2).

EDAD 570 POLICY PLANNING AND EVALUATION (3) Objectives. Evaluation of educational programs. Pupil achievement evaluation.

EDAD 660 CURRICULUM DESIGN AND TEACHING STRATEGIES (3).<br>EDAD 760 COMPUTERS IN EDUCATION (3).<br>EDAD 761 MICROCOMPUTERS IN EDUCATION (3)<br>EDAD 765 SCHOOL LAW II (2).<br>EDAD 766 SCHOOL FINANCE II (2).<br>EDAD 767 SUPERINTENDENT - SCHOOL BOARD RELATIONS (2). EDAD 778 ADVANCED ADMINISTRATIVE PRACTICUM (3).

## ATHLETIC TRAINING

## Undergraduate Courses

EDAT 143 INTRODUCTION TO ATHLETIC TRAINING (3) Overview course including basic components of a comprehensive athletic training career outlining the prevention, recognition and evaluation of athletic injuries. History, philosophy and career opportunities of the profession; emergency procedures; tissue healing; taping procedures; ethical and legal considerations; and the organization and administration of athletic training programs.
EDAT 150 ATHLETIC TRAINING PRACTICUM I (1) A practicum for students preparing to become athletic trainers. Includes observation, field work, and hands on experience in university and high school training rooms and sports medicine clinics under the direct supervision of a certified athletic trainer. Emphasis on introductory skills, techniques, and training room management. Prerequisites: EDAT 143, EDAT 323, EDHE 168 (current adult CPR and first aid certification), documented 100 hours of athletic training clinical experience.
EDAT 250 ATHLETIC TRAINING PRACTICUM II (1) A practicum for students preparing to become athletic trainers. Includes observation, field work, and hands on experience in university and high school training rooms and sports medicine clinics under the direct supervision of a certified athletic trainer. Emphasis on rehabilitation techniques and use of modalities for the treatment of athletic injuries. Prerequisites: EDAT 150, EDAT 342, documented 200 hours of athletic training clinical experience.
EDAT 323 RECOGNITION AND EVALUATION OF ATHLETIC INJURIES (3) A comprehensive study of the screening of internal injuries in athletic participation. Emphasis on prevention, recognition, and treatment of life-threatening injuries. Prerequisite: EDAT 143.
EDAT 342 MODALITIES AND REHABILITATION (3) A comprehensive study of the use of therapeutic agents for the treatment of athletic injuries. Emphasis on the indications, contraindications, precautions, and physiological effects of muscle stimulation, ultrasound, and cryokinetics. Prerequisite: EDAT 323.
EDAT 345 ORTHOPEDIC INJURIES I (3) A comprehensive study of the lower extremity including foot, ankle, knee, thigh, and hip with attention to prevention, recognition and rehabilitation to sports injuries to these areas.
EDAT 346 ORTHOPEDIC INJURIES II (3) A comprehensive study of the upper extremity including hand, wrist, arm, and shoulder complex with special attention to prevention, recognition and rehabilitation to sports injuries to these areas.
EDAT 347 ORTHOPEDIC INJURIES III (3) A comprehensive study of the head, neck, and spinal areas with special attention to prevention, recognition and rehabilitation to sports injuries to these areas.
EDAT 350 ATHLETIC TRAINING PRACTICUM III (1) A practicum for students preparing to become athletic trainers. Includes observation, field work, and hands on experience in university and high school training rooms and sports medicine clinics under the direct supervision of a certified athletic trainer. Emphasis on basic injury assessment techniques. Prerequisite: EDAT 250, documented 350 hours of athletic training clinical experience.

EDAT 386
ADVANCED KINESIOLOGY (2) In-depth study designed for Athletic Training majors. Study of human movement including analysis of muscular physiology, biomechanics, principles of physics as applied to joint movement through individual muscular contractions. Emphasis on biomechanical analysis for the prevention and treatment of athletic injuries. Prerequisites: BIOL 140-143; PHYS 160, 161.
ADVANCED KINESIOLOGY LAB (1)
EDAT 450 ATHLETIC TRAINING PRACTICUM IV (1) A practicum for students preparing to become athletic trainers. Includes observation, field work, and hands on experience in university and high school training rooms and sports medicine clinics under the direct supervision of a certified athletic trainer. Prerequisites: EDAT 350, documented 550 hours of athletic training clinical experience.
EDAT 492 ATHLETIC TRAINING: SENIOR SEMINAR (3) A culminating experience which presents an extensive overview of the entire professional preparation in Athletic Training. Resume writing, job interviewing skills, and graduate school selection are included. Prerequisites: EDAT 450, documented 800 hours of athletic training clinical experience.
EDAT 495
INTERNSHIP IN ATHLETIC TRAINING (1-9) The student athletic trainer will assist in the total operation of a training room, all sports teams, and day-to-day management during his/her final semester. Prerequisites: EDAT 492, documented 1100 hours of athletic training clinical experience.

## Graduate Courses

EDAT 523 ADVANCED RECOGNITION AND EVALUATION OF INTERNAL INJURIES (3).
EDAT 542 ADVANCED MODALITIES AND REHABILITATION (3).
EDAT 543 ADVANCED ATHLETIC TRAINING (3).
EDAT 545 ADVANCED ORTHOPEDIC INJURIES I (3).
EDAT 546 ADVANCED ORTHOPEDIC INJURIES II (3).
EDAT 547 ADVANCED ORTHOPEDIC INJURIES III (3).
EDAT 586 ADVANCED KINESIOLOGY (3).
EDAT 592 ADVANCED SEMINAR/EXAM PREPARATION (3).
EDAT 595 ADVANCED INTERNSHIP IN ATHLETIC TRAINING (1-9).

## CHILDREN'S LITERATURE

## Graduate Courses

EDCH 501
ADVANCED CHILDREN'S LITERATURE (3) Survey of the history and content of Children's literature through the study of various genre: picture books, traditional literature, poetry, fiction, nonfiction and informational books. Focus will be on current literature and classroom application.
EDCH 505 STORYTELLING AS A CULTURAL CRAFT (3) Study and practice in the art of storytelling. Emphasis on both classroom application and formal program presentation.
EDCH 510
WRITING AND PUBLISHING FOR CHILDREN (3) Detailed guidance for all aspects of teaching, using and developing writing for children, from workshop methods to pre-writing and revising, to issues of grammar and evaluation, to publication of various genre of writing.
EDCH 515
ADOLESCENT LITERATURE (3) Focused study of the literature available for classroom use of the adolescent. Current and classic authors and illustrators of both fiction and nonfiction studies.
EDCH 520 MULTICULTURAL LITERATURE (3) Multiculturalism and the politics of Children's Literature. Study of literature by and about African Americans, Native Americans, Hispanics and other racially and ethnically diverse peoples. Strategies for classroom use and selection. tion of literature for children by genre, character, plot, setting, theme, point of view, style and tone.

## COUNSELING

## Undergraduate Courses

EDCO 419 COPING WITH DEATH AND DYING (2) Awareness of the grief process. Counseling techniques to assist those experiencing loss.
EDCO 434 INTRODUCTION TO RATIONAL BEHAVIOR THERAPY (2) Overview of a cognitive behavioral counseling approach
EDCO 435 REALITY THERAPY (2) Basics of Control Theory and reality therapy.
EDCO 436 ADVANCED REALITY THERAPY (2) Knowledge and skills of Control Theory. Prerequisite: EDCO 435.
EDCO 437 REALITY THERAPY CERTIFICATION (2).
EDCO 439 DRUG COUNSELING (2-3) Concepts of drug and alcohol counseling. Disease model of chemical dependency.

## Graduate Courses

EDCO 519 COPING WITH DEATH AND DYING (2). Awareness of the grief process. Counseling techniques to assist those experiencing loss.
EDCO 533 COUNSELING PRINCIPLES AND TECHNIQUES (3) (PSYC 533) Theory of counseling, case method, relationships to testing and to other sources of data, interviewing, place and value of records, clinical procedures.
EDCO 534 ELEMENTARY SCHOOL GUIDANCE (2) Principles, philosophy, administration, and organization of guidance services in the elementary school setting. Role and function of the counselor.
EDCO 536 GROUP PROCESS (3) (PSYC 536) Laboratory course. Individual roles in the group. Interpersonal relations. For counseling, teaching, and persons involved in personnel work.
EDCO 537 ORGANIZA'TIONANDADMINISTRATIONOF COUNSELINGSERVICES
(2) Principles. Administrative operations, budget, public relations, the counselor worker in the school, agency or institution, organization services.
EDCO 579 PSYCHOLOGICAL AND ACHIEVEMENT TESTS (3) (PSYC 379) Group tests. Testing procedures. Rationale of intelligence, aptitude, achievement, interest, and personality tests. Selection and evaluation of group tests.
EDCO 620 ALCOHOL EDUCATION (2) Role of alcohol in society. Alcohol abuse and dependency stages. Techniques to create awareness in children and adults.
EDCO 630 HISTORY AND SYSTEMS IN AGENCY AND COMMUNITY COUNSELING (2) Historical developments and current practice in various counseling settings..
EDCO 631 SEMINAR: PROFESSIONAL COUNSELOR PRACTICES (2) Ethical responsibilities of the counselor and counseling as a profession.
EDCO 632 INTRODUCTION TO REALITY THERAPY (2-3) Theory, practice, strength, dynamics of failure, success identity.
EDCO 633 SUBSTANCE ABUSE (2) Follow-up of disease concept of alcoholism. Exploration of intervention techniques in alcohol and other drugs.
EDCO 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.
EDCO 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.
EDCO 637 COUNSELING IN GRIEF, BEREAVEMENT, AND MOURNING (2).
EDCO 638 CROSS-CULTURAL COUNSELING (2) Impact of culture on the counseling process as well as an understanding of cultural differences (e.g., race, gender, ethnicity).

DRUG COUNSELING (2-3) Concepts of drug and alcohol counseling. Disease model of chemical dependency.
EDCO 640 FAMILY RELATIONS (2) Issues related to the family and various theories of family counseling.
EDCO 662 SPECIAL STUDY: COUNSELING (1-3) Individualized in-depth study of specialized counseling topic.
EDCO 663 SEMINAR: PROFESSIONAL REVIEW (2) A review of the content areas covered by the Ohio Counselor Licensure Examination.
EDCO 669 COUNSELING LAB (3) Laboratory experience involves completing audio-taped interviews with clients and producing case history write-ups. Students in EDCO 669 must carry liability insurance purchased through the university.
EDCO 670 FIELD EXPERIENCE (3) This field course comes at the end of the counseling program and serves in lieu of a comprehensive exam. A minimum of 110 clock hours of supervised counseling experiences in an agency/community setting or school counseling program is required. Normally students are expected to find their own placement. However, please consult program faculty for assistance if needed. Students in EDCO 670 must carry liability insurance purchased through the University.
EDCO 717 COGNITYVE-BEHAVIORAL TREATMENT PROCEDURES WITH CHILDREN AND ADOLESCENTS (1).
EDCO 739 NUTRITIONAL COUNSELING (1).
EDCO 747 MARITAL AND FAMILY THERAPY (2).
EDCO 760 PERSONALITY AND ABNORMAL BEHAVIOR (3) Dynamics of the disturbed personality; symptoms, causes, treatment of psychoneuroses, psychoses, deviant personalities. Emphasis is placed on psychopathological conditions related to children, adolescents, young and middle-life adults, and the aged.
EDCO 761 APPLICATIONS OF PERSONALITY THEORIES TO CLINICAL POPU. LATIONS (3) Description, evaluation, and application of specific personality theories in the context of mental health work with children, adolescents, young and middle-life adults, and the aged.
EDCO 762 INTELLECTUAL AND PERSONALITY ASSESSMENT (4) Emphasis is placed on methods of administering and interpreting individual and group standardized tests. Evaluation techniques of mental and emotional status, including use of assessment procedures and diagnosis and treatment planning are reviewed.
EDCO 763 DIAGNOSIS OF PSYCHOPATHOLOGY (3) A conceptual overview of the foundations of psychodiagnostics. Exposure to both psychodynamic concepts and theory as well as behavioral, descriptive diagnosis as advocated by the DSM-III, DSM-III-R, and DSM IV. This includes the development of a framework for identifying the signs and symptoms of psychosis, personality disorders, and neuroses in children, adolescents, young and middle-life adults, and the aged.
EDCO 764 COUNSELING AND PSYCHOTHERAPY (3) Theoretical and applied understandings of the psychotherapeutic process including study of the psychological methods of intervention such as person-centered, psychoanalytic, hypnotherapy, and psychotherapy. Also covered are educational intervention methods such as rational-emotive therapy, reality therapy, and psychosocial rehabilitation.
EDCO 765 CRISIS COUNSELING (2) An examination of issues and skills involved in assisting clients to deal with crisis situations. The progression and symptomatology of crisis functioning are presented with models and techniques for appropriate psychological, educational, and specialized intervention techniques for use with clients.
EDCO 766 INTERVENTIONSKILLS FOR THE SEVERELY MENTALL Y DISABLED (3) Specific interventions and treatment strategies with severely mentally disabled individuals in both individual and group settings including developing and implementing a treatment plan, reporting and assessing progress of treatment, appropriate referral procedures, and knowing the effect on client behavior of mood altering chemical agents in the treatment of mental and emotional disorders.
EDCO 773 COUNSELING PRACTICUM (2) A supervised training experience providingindividual or group counseling to bona fide clients seeking services from counselors.

## CROSS LISTINGS

## Undergraduate Courses

EDCL 200
ADVANCED COMPOSITION FOR TEACHERS (3) (EDCL 500) Current theories on the teaching of writing in elementary school. Instruction and practice in expository writing.
EDCL 205 TEACHING THE MULTI-AGE CLASSROOM (2)
EDCL 210 FAMILY AND SOCIETY (3) (SOCW 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.
EDCL 231 DEVELOPMENTAL PSYCHOLOGY (3) (PSYC 231) Factors inlluencing man's life span. Application to stages of physiological maturation, developmental tasks, social learning, personality integration.
EDCL 232 CHILD PSYCHOLOGY (2) (PSYC 232/532) The genetic study of growth and development; hereditary and environmental factors; early and later childhood to puberty.
EDCL 233 ADOLESCENT PSYCHOLOGY (2) (PSYC 233) Interrelated physical, social, and moral development associated with youth and adolescence.
EDCL 261 SOCIALPSYCHOLOGY(2)(PSYC 261,SOCW 261) The individual's personality, attitudes, and behavior in multi-individual situations.
EDCL 266 CRIME AND PERSONALITY (3) (CJUS 266, CJUS 566, EDCL 566, PSYC 366) Root causes of crime in the individual and in the culture. Consideration of personality dynamics and treatment approaches.
EDCL 274 PSYCHOLOGY OF ADJUSTMENT (2) (PSYC 274) Progressive stages of development in emotional growth. Factors of adjustment and maladjustment in education, social relations, and occupations.
EDCL 276 PSYCHOLOGY OF DELINQUENCY (2) (CJUS 276, CJUS 676, PSYC 276) Definition, causes and categories of delinquency. Court processes, court rulings, current philosophies, service agencies, personality and maladaptive disorders.
EDCL 277 ABNORMAL PSYCHOLOGY (2) (PSYC 277) Dynamics of the disturbed personality; symptoms, causes, treatment of psychoneuroses, psychoses, deviant personalities.
EDCL 318 MARVA COLLINS: TEACHING METHODSANDSTRATEGIES (3)(EDCL 518).

EDCL 365 PSYCHOLOGY OF WOMEN (2) (PSYC 365) Study of the biological, psychological and social needs and issues of women.
EDCL 434 THE DISRUPTIVE CHILD (3) (CJUS 434/634, EDCL 634)
EDCL 464 THEORIES OF PERSONALITY (2) (EDCL 564, PSYC 464, PSYC 504) Description and evaluation of current personality theories. Upon approval of psychology department chair.
EDCL 477 SPORTS PSYCHOLOGY (3) (PSYC 477) The course will deal with behavior and sports emphasizing the areas of personality and sports, anxiety and arousal in sports motivation, aggression, group dynamics, socialization and excrcise.

## Graduate Courses

EDCL 500 ADVANCED COMPOSITION FOR TEACHERS (3) (EDCL 200) Current theories on the teaching of writing in elementary school. Instruction and practice in expository writing.

EDCL 510 STATISTICAL TECHNIQUES (2) (PSYC 210) Basic statistics in psychology and education. Measures of central tendency and variability, correlational techniques, and experimental test of difference among groups.
EDCL 511 ADVANCED STATISTICS (3) (PSYC 511) Elementary correlational methods, serial correlation, multiple regression, nonparametric statistics, analysis of variation, and multivariate analyses. Prerequisite: EDCL 510.
EDCL 514 CURRICULUM DESIGN AND CONSTRUCTION (3)
EDCL 518 MARVA COLLINS: TEACHING METHODSANDSTRATEGIES(3)(EDCL 318)

EDCL 529 BEHAVIOR THERAPY (3) (PSYC 529) Theoretical and empirical bases of behavior therapy. Projects using behavioral therapeutic techniques in a variety of settings with various clinical problems required.
EDCL 530 LEARNING AND MOTIVATION (3) (PSYC 530) Theories of learning and motivation. Concepts of drive, reinforcement, generalization, discrimination, transfer of training, retention, and forgetting.
EDCL 531 DEVELOPMENTAL PSYCHOLOGY (3).
EDCL 532 CHILD PSYCHOLOGY (2).
EDCL 533 ADOLESCENT PSYCHOLOGY (2).
EDCL 547 CONTEMPORARY PROBLEMS IN EDUCATION (1)
EDCL 561 SOCIAL PSYCHOLOGY (2).
EDCL 564 THEORIES OF PERSONALITY (2) (EDCL 464, PSYC 464, PSYC 504).
EDCL 565 PSYCHOLOGY OF WOMEN (2).
EDCL 566 CRIME AND PERSONALITY (3) (CJUS 2661566, EDCL 266, PSYC 366).
EDCL 574 PSYCHOLOGY OF ADJUSTMENT (2).
EDCL 576 PSYCHOLOGY OF DELINQUENCY (2) (EDCL 276, CJUS 276, CJUS 676, PSYC 276) Definition, causes and categories of delinquency. Court processes, court rulings, current philosophies, service agencies, personality and maladaptive disorders.
EDCL 577 ABNORMAL PSYCHOLOGY (2).
EDCL 580 PSYCHOPATHOLOGY (2) (PSYC 580) Study of descriptive and dynamic psychopathology via DSM and psychodynamic theory. Clinical interviewing and diagnostic criteria.
EDCL 582 INDIVIDUAL TESTS OF INTELLIGENCE (4)(PSYC582) Underlying theory, administration, scoring, interpretation, and reporting of the individual tests of intelligence.
EDCL 608
GENERAL APTITUDE TEST BATTERY (GATB) TRAINING (1)
EDCL 634 THE DISRUPTIVE CHILD (3) (CJUS 434/634, EDCL 434)
EDCL 660 CURRICULUM DESIGN AND TEACHING STRATEGY (3) School curriculum as personal and social environments and constructs, appropriate teaching strategies, examining personal/professional attitudes, practices, values, roles, goals. Evaluation.

## ELEMENTARY EDUCATION

## Undergraduate Courses

EDEL 100 INTRODUCTION TO ELEMENTARY EDUCATION AND FIELD EXPE-
RIENCE (3) The elementary school as a multicultural environment. History, philosophy, organization and current issues. Emphasis on suitability for teaching. Field experiences. EDEL 100 is a prerequisite for all courses listed as elementary requirements.
EDEL 201 ARTS \& LITERACY (2) Overview of the fine arts, an examination of the relationship of the arts to literacy, and application to elementary classroom arts integration. Field experiences. Prerequisites: ARTS 221; MUSC 120 or 121;EDEL 100, 251; and EDFD 140, 142.
EDEL 251 INSTRUCTIONAL TECHNOLOGY (3) Methods for integrating computers, media and materials into the instructional design process, including theory, selecLion, and utilization.

## EDEL 295 <br> OBSERVATION \& TEACHING METHODS IN BRITISH SCHOOLS (3)

 Study abroad course.EDEL 311 TEACHING SCIENCE (2) Curriculum integrated course in teaching science methods. Prerequisites: EDEL 100 and EDFD 140, 142.
EDEL 312 TEACHING SOCIAL STUDIES (2) Emphasis on social science curriculum, multicultural implications and instructional strategies. Prerequisites: EDEL 100 and 251, EDFD 140, 142.
EDEL 313 LANGUAGE ARTS BLOCK (9) Major course that combines children's literature, reading and language arts methods with field experience in an elementary classroom. Field and clinical experiences required. Prerequisites: EDEL 100, 251; EDFD 140, 142.
EDEL 314 TEACHING READING (3) Developmental process of reading, reading in the content areas, determining needs of children. Prerequisites: EDEL 100 and 251, EDFD 141, 142.
EDEL 315 TEACHING MATHEMATICS (3) Mathematics in the elementary school. Materials, methods, and content. Prerequisites: EDEL 100 and 251, EDFD 140, 142.
EDEL 316 MATH AND SCIENCE BLOCK (6) Math and science teaching strategies, skills, and content integrated with field experience in an elementary classroom. Field and clinical experiences required. Prerequisites: EDEL 100, 251; EDFD 140, 142.
EDEL 317 TEACHING LANGUAGE ARTS (3) Curriculum, oral and written language, spelling, mechanics of writing, linguistics. Prerequisite: EDEL 100 and 251, EDFD 140, 142.
EDEL 318 SOCIALSTUDIES/MULTICULTURAL BLOCK (5) (EDEL518) Methods for teaching the social sciences with a multicultural perspective. Field work highlights cultural diversity. Field and clinical experiences required. Prerequisites: EDEL 100, 251 ; EDFD 140, 142.
EDEL 326 CHILDREN'S LITERATURE (3) Survey of literature available for elementary age children; how to use literature in the classroom.
EDEL 327 ADOLESCENTLITERATURE (3) Survey of literature available for adolescents; how to use literature in the classroom.
EDEL 370 JUNIOR FIELD EXPERIENCE (2) Observation, teaching and evaluation; major subject areas: reading, language arts, mathematics, social studies, and science. Prerequisites: All methods courses, EDEL 370 not taken when block courses are taken.
EDEL 471 ELEMENTARY STUDENT TEACHING AND SEMINAR (9) Classroom teaching, five days a week for 15 weeks.
EDEL 472 CURRICULUM DESIGN \& TEACHING STRATEGIES (3) Final preparation course for entry into the profession. Integrates the diverse learnings of classroom and field work.
EDEL 474 ELEMENTARY STUDENT TEACHING AND SEMINAR: SPECIAL EDUCATION DEVELOPMENTALLY HANDICAPPED (9).Classroom teaching, five days a week for 15 weeks.
EDEL 475 ELEMENTARY STUDENT TEACHING AND SEMINAR: SPECIAL EDUCATION MULTI-HANDICAPPED (9).
EDEL 476 ELEMENTARY STUDENT TEACHING AND SEMINAR: SPECIAL EDUCATION SEVERE BEHAVIOR HANDICAPPED (9).
EDEL 477 ELEMENTARY STUDENT TEACHING AND SEMINAR: SPECIFIC LEARNING DISABLED (9).
EDEL 498 INDEPENDENT STUDY (1-2).

## Graduate Courses

EDEL 500
CLASSROOM CULTURE (3) Required course for graduates seeking initial certification in elementary education. Course examines the historical basis of American education, curriculum, and instruction. Emphasis on suitability for teaching. Field experiences required.
EDEL 511 TEACHING SCIENCE (2) Curriculum integrated course in science.

EDEL 512 TEACHING SOCIAL STUDIES (2) Curriculum, multicultural implications.
EDEL 514 TEACHING READING (3) Developmental process of reading, rading in the content areas, determining needs of children.
EDEL 515 TEACHING MATHEMATICS (3) The modern mathematics curriculum in the elementary school. Materials, methods, and content.
EDEL 517 TEACHING LANGUAGE ARTS (3) Curriculum, oral, and written language, spelling, mechanics of writing, linguistics. Multicultural implications.
EDEL 518 SOCIALSTUDIES/MULTICULTURAL BLOCK (5) (EDEL 318) Methods for teaching the social sciences with a multicultural perspective. Field work highlights cultural diversity. Field and clinical experiences required. Prerequisites: EDEL 100, 251; EDFD 140, 142.
EDEL 526 CHILDREN'S LITERATURE (3) Survey of literature available for elementary age children; how to use literature in the classroom.
EDEL 527 ADOLESCENT LITERATURE (3). Survey of literature available for adolescents; how to use literature in the classroom.

## FOUNDATIONS

## Undergraduate Courses

EDFD 140 DEVELOPMENTAL THEORIES I (3) Human growth, development and learning; theories and their application to development learning; birth through middle childhood. Field experiences required.
EDFD 141 HUMAN GROWTH AND DEVELOPMENT I: THEORY (2) The genetic study of growth and development. Influence of heredity and environment. Birth through middle childhood. Field experiences.
EDFD 142 HUMAN GROWTH AND DEVELOPMENT II: PRACTICE (2) Human growth and learning. Evaluation, observation skills, behavior problems. Preadolescence to adulthood. Field experiences.

## Graduate Courses

EDFD 501 PHILOSOPHY OF EDUCATION (3) The historic development of educational philosophy and theories. Evaluation of major current philosophies. Societal differences.
EDFD 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. Multicultural society. Educational ideas.
EDFD 503 ADVANCED EDUCATIONAL PSYCHOLOGY (3) (PSYC 503) Major aspects of child an adolescent growth and development. The learning process and factors influencing learning.
EDFD 505 EDUCATIONALADMINISTRATION (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. Multicultural implications.
EDFD 507 EDUCATIONAL RESEARCH (2) Methodology of educational research. Statistics in research. Locating educational research. Corequisite: EDFD 508.
EDFD 508 EDUCATIONAL RESEARCH PAPER (1) Cotequisite: EDFD 507.
EDFD 510 ADVANCED HUMAN GROWTH \& DEVELOPMENT SEMINAR (3) For graduates only. Seminar on human growth, development and learning; theories and their application to development and learning; birth through young adult. Field experience required.
EDFD 512 ADVANCED STUDY AMERICAN EDUCATIONAL HISTORY (3).
EDFD 513 PSYCHOLOGY FOR LEARNING AND TECHNOLOGY (3).
EDFD 576 ETHICS FOR EDUCATORS (2) This workshop offers a means of professional and personal development appropriate for educators as they face ethical difficulties, moral dilemmas, value conflicts and challenges. Lecture, discussion, problemsolving, role-playing, field-based experiences, video, journal, essays and short fiction.

## HEALTH EDUCATION

## Undergraduate Courses

EDHE 387
EDHE 461
EDHE 470
EDHE 480

EDHR 502
EDHR 510
EDHR 511
EDHR 512
EDHR 601
EDHR 602
EDHR 605

FIRST AID, SAFETY, AND CPR (3) This course certifies students through the American Red Cross in both First Aid and CPR in the course titled Responding to Emergencies. Stresses the basic steps to follow in an emergency including assessment, life-threatening emergencies, injuries, medical emergencies, rescues, healthy life-styles, and disease transmission.
ELEMENTARY SCHOOL HEALTH EDUCATION CURRICULUM (2). PERSONAL \& COMMUNITY HEALTH \& METHODS (2) Various topics addressing personal and community health problems.
NUTRITION FOR SPORT (2) The basic components and principles of nutrition and the application to good health.
STD, AIDS, DEATH AND DYING (2).
ENVIRONMENTAL HEALTH (2).
INDEPENDENT STUDY (1-3).
CPR: INSTRUCTOR PREPARATION (2).

## HUMAN RESOURCE DEVELOPMENT

## Graduate Courses

DEVELOPING THE ADULT LEARNER (3) Understanding how adults acquire knowledge, skills, and attitudes. Understanding how individual and cultural differences in values, needs, interests, styles, and competencies affect others and the learning process.
EDFR 606 BEHAVING IN ORGANIZATIONS (3) Understanding organizations as dynamic political, economic, and social systems that have multiple goals. Understanding organizational culture and the motivation for behavior.
EDHR 607 CONSULTING FOR ORGANIZATION EFFECTIVENESS (3) Influencing and supporting changes in organizational behavior through planned, systematic, long-range efforts focused on the organization's culture and its human and social processes. Establishing collaborative client-consultant relationships, clarifying roles, and developing contracts.
EDHR 608 ADVISING FOR CAREER DEVELOPMENT (3) Developing a personal plan for self-growth. Helping others identify career plans that are aligned with organizational career-management processes.
EDHR 609 ASSESSING AND EVALUATING HRD PROGRAMS (3) Identifying ideal and actual performance and performance conditions and diagnosing causes of discrepancies. Determining the impact of interventions on individual or organizational effectiveness.
EDHR 610 DESIGNING HRD PROGRAMS (3) Preparing learning goals and objectives, and defining program content. Determining instructional methods, and scope and sequence of learning activities for lessons, courses, and curricula.
EDHR 611 DEVELOPING HRD PROGRAMS (1) Preparing course material, job aids, and instructor guides. Includes exposure to print, computer, audio, and video-based technology.
EDHR 612 FACILITATING LEARNING IN HRD PROGRAMS (3) Creating a collaborative learning environment, presenting information, directing structured learning experiences, and managing group discussions and group process so that the intended purpose is achieved.

EDHR 615 TRENDS \& ISSUES IN HRD (2) Will explore trends and issues related to the HRD field and the implications for HRD professionals. Topics will be selected from current issues affecting training and development, organization development and career development.
EDHR 644 MOTIVATION AND BEHAVIOR IN ORGANIZATIONS (3) To help students gain knowledge of various concepts and controversies relating to attempts to explain the motivation and behavior of people in organizations.
EDHR 670 PRACTICUM: PERSONNEL TRAINING, EDUCATION \& DEVELOPMENT I (1-3).
EDHR 671 PRACTICUM: PERSONNEL TRAINING, EDUCATION \& DEVELOPMENT II (1-3).
EDHR 672 PRACTICUM IN HUMAN RESOURCE DEVELOPMENT (1-3).
EDHR 680 ADVANCED STUDY PERSONNEL TRAINING, EDUCATION \& DEVELOPMENT (1-3).
EDHR 681 SPECIALSTUDY:PERSONNELTRAINING, EDUCATION \& DEVELOPMENT (1-3),
EDHR 682 SPECIAL STUDY IN HUMAN RESOURCE DEVELOPMENT (1-3).

## MONTESSORI EDUCATION

## Undergraduate Courses

EDME 305/

EDME 350 METHODS OF OBSERVATION OF CHILDREN (3) Techniques and strategies for systematic observation in the classroom, records of observations, instruments for addressing curiosities or problems. Analysis of live and videotaped classroom behavior.
EDME 351 MONTESSORI EDUCATION: PHILOSOPHICAL APPROACH (3) Seminar. Philosophy, historical development, contemporary critique, and current methodology. Classroom observation Varieties of resources.
EDME 352 MONTESSORI CURRICULUM DESIGN AND TEACHING STRATEGIES I: PRIMARY (3).
EDME 353 MONTESSORI MATH AND GEOMETRY METHODS (3).
EDME 354 MONTESSORI LANGUAGE ARTS AND READING METHODS (3).
EDME 355 MONTESSORI CULTURAL SUBJECTS METHOD (3).
EDME 356 MONTESSORI INTEGRATION OF THE CURRICULUM: PRIMARY (3). EDME 359 FULL DAY CHILD CARE METHODS (3).
EDME 363 EARLY COGNITIVE DEVELOPMENT (3) (PSYC 653, EDME 563) Review of theories of the nature and development of the human cognitive system and how it relates to developmental processes. Special attention is paid to Piaget's theory of cognitive development.
EDME 364 EARLY CHILDHOOD/MONTESSORI METHODS (3).
EDME 365 EARLY CHILDHOOD/MATH AND LANGUAGE METHODS (3).
EDME 366 MONTESSORI CURRICULUM DESIGN AND TEACHING STRATEGIES I: EARLY CHILDHOOD (3).
EDME 367 MONTESSORI CURRICULUM DESIGN AND TEACHING STRATEGIES II: EARLY CHILDHOOD (3).

EDME 470
EDME 471
EDME 473
EDME 474

DME 550
EDME 55
EDME 552

EDME 553
EDME 554
EDME 555
EDME 556
EDME 559
EDME 563

EDME 564
EDME 565
EDME 566

EDME 567

EDME 670
EDME 671
EDME 673
EDME 674

MONTESSORI PRIMARY PRACTICUM I (6).
MONTESSORI PRIMARY PRACTICUM II (6).
MONTESSORI EARLY CHILDHOOD PRACTICUM I (6). MONTESSORI EARLY CHILDHOOD PRACTICUM II (6).

Graduate Courses
METHODS OF OBSERVATION OF CHILDREN (3).
MONTESSORI EDUCATION: PHILOSOPHICAL APPROACH (3). MONTESSORI CURRICULUM DESIGN AND TEACHING STRATEGIES I: PRIMARY (3).
MONTESSORI MATH AND GEOMETRY METHODS (3).
MONTESSORI LANGUAGE ARTS AND READING METHODS (3).
MONTESSORI CULTURAL SUBJECTS METHOD (3).
MONTESSORI INTEGRATION OF THE CURRICULUM: PRIMARY (3). FULL DAY CHILD CARE METHODS (3).
EARLY COGNITIVE DEVELOPMENT (3) (PSYC 653, EDME 363) Review
of theories of the nature and development of the human cognitive system and how it relates to developmental processes. Special attention is paid to Piaget's theory of cognitive development.
EARLY CHILDHOOD/MONTESSORI METHODS (3).
EARLY CHILDHOOD/MATH AND LANGUA GE METHODS (3).
MONTESSORI CURRICULUM DESIGN AND TEACHING STRATEGIES I: EARLY CHILDHOOD (3).
MONTESSORI CURRICULUM DESIGN AND TEACHING
STRATEGIES II: EARLY CHILDHOOD (3). MONTESSORI PRIMARY PRACTICUM I (3).
MONTESSORI PRIMARY PRACTICUM II (3).
MONTESSORI EARLY CHILDHOOD PRACTICUM I (3). MONTESSORI EARLY CHILDHOOD PRACTICUM II (3).

## PHYSICAL EDUCATION

## Undergraduate Courses

EDPE 193
EDPE 214
EDPE 238
EDPE 240
EDPE 267
EDPE 269
EDPE 270
EDPE 271
EDPE 272
EDPE 273
EDPE 274
EDPE 275
EDPE 276
EDPE 277
EDPE 278
EDPE 279
EDPE 313
doIVIDUAL FITNESS (2).
EDPE 342 METHODS IN SECONDARY PHYS ED (3).
EDPE 377 ORGANIZATION AND ADMINISTRATION OF HEALTH, PHYSICAL EDUCATION AND ATHLETIC TRAINING (3) To emphasize the administrative and managerial duties of the physical education teacher, athletic trainer, sport administrator, and coach at the secondary level. Emphasis on leadership and supervision, human relations, communication, organizational structure and climate,
sport law, budget management and equipment purchasing, pre-participation physical examinations, drug testing, and facility and event management.

EDPE 381
EDPE 384
EDPE 385
EDPE 386
EDPE 387
EDPE 388
EDPE 389
EDPE 392
EDPE 460
EDPE 472 TION (3).
ELEMENTARY SCHOOL HEALTH AND PHYSICAL EDUCATION FOR THE CLASSROOM TEACHER (3).
PHYSICAL EDUCATION IN THE ELEMENTARY SCHOOL (2).
KINESIOLOGY (2) Corequisite: EDPE 387.
KINESIOLOGY LAB (1) Corequisite: EDPE 386.
BIOMECHANICS (3).
ADAPTIVE PHYSICAL EDUCATION (3).
SENSORY INTEGRATION \& MOTOR LEARNING (3). CURRICULUM IN PHYSICAL EDUCATION (2).
SUPERVISED STUDENT TEACHING \& SEMINAR IN HEALTH \& PHYSI-
CAL EDUCATION (9) A weekly seminar and daily laboratory experience in the elementary and in the secondary school teaching during the entire semester under master teachers. Prior to registration, the student must make a formal application by the stated deadline and meet GPA and other requirements on file in the Education Department.

## Graduate Courses

EDPE 542
EDPE 560
EDPE 569
EDPE 571
EDPE 572
EDPE 573
EDPE 574
EDPE 575
EDPE 576
EDPE 578
EDPE 579
EDPE 581
EDPE 585
METHODS IN SECONDARY PHYSICAL EDUCATION (3).
CURRICULUM IN PHYSICAL EDUCATION (3).
COACHING GOLF (3).
ADVANCED GYMNASTICS AND TUMBLING (3).
COACHING FOOTBALL (3).
COACHING BASKETBALL (3).
COACHING BASEBALL (3).
COACHING TRACK AND FLELD (3).
THEORY AND PRINCIPLES OF COACHIING (3).
COACHING SOCCER (3).
TEACHING RACQUET SPORTS (3)
TESTS AND EVALUATION IN SPORT AND PHYSICAL EDUCATION (3). TRENDS; PHYSICAL EDUCATION IN ELEMENTARY SCHOOL (3).
EDPE 596 ELEMENTARY SCHOOL HEALTH AND PHYSICAL EDUCATION FOR THE CLASSROOM TEACHER (3).
EDPE 640 ADMINISTRATION OF SCHOOL ATHLETIC AND PHYSICAL EDUCATION (3).
EDPE 642
SENSORY INTEGRATION AND MOVEMENT EDUCATION (3).
EDPE 644
EDPE 652
EDPE 653
EDPE 654
EDPE 656
EDPE 667

EDRE 296

NUTRITION FOR SPORT (3).
LEADERSHIP IN OUTDOOR EDUCATION (3).
BIOMECHANICS (3).
KINESIOLOGY (3).
ADAPTIVE PHYSICAL EDUCATION (3).
PHYSIOLOGY OF EXERCISE (3).

## READING EDUCATION

## Undergraduate Course

ADULT AND FAMILY LITERACY (3) This course is designed to provide Xavier students with knowledge, understanding, expertise, and practical experience relating to adult and family literacy education. This will be accomplished through exploration of the literature and key figures working in the area of illiteracy; the Literacy Volunteers of America certified training in Basic Reading Tutor Training; discussion and research into the problem of illiteracy based on the Jesuit goal of developing intellectual skills in order to prepare for a life of service; and weekly in-
service practice in a neighborhood literacy center. EDRE 296 is offered as part of the reading program and as an E/R\&S Focus elective course. Prerequisite/ Corequisite to PHIL 100 and THEO 111.

## Graduate Courses

EDRE 569 FOUNDATIONS OF LITERACY (2) Introductory course examining the philosuphy of the reading process as it relates to holistic education.
EDRE 570 PSYCHOLOGY OF READING (2) 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.
EDRE 571 READING IN THE CONTENT AREA (2) Comprehensive study of the teaching of reading across the curriculum. Skill development, diagnostic techniques, prescriptive teaching, readability formulas and strategies, and materials for elementary/secondary teaching.
EDRE 572 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.
EDRE 576 ADVANCED CHILDREN'S LITERATURE (3).
EDRE 578 DIAGNOSIS AND CORRECTION OF READING DISABILITIES (3) Factors associated with reading problems. Diagnostic tests and remedial procedures. Prerequisite: EDRE 569 or 571.
EDRE 675 CURRENT RESEARCH IN READING (2) Studies related to the process of and instruction in reading. Emphasis on classroom applications.
EDRE 679 PRACTICUM IN READING (3) Supervised practice in remedial and developmental reading. By reservation only.

## SECONDARY EDUCATION

## Undergraduate Courses

EDSE 131 INTRODUCTION TO SECONDARY EDUCATION AND FIELD EXPERIENCES (3) This course provides an introduction to the teaching profession through a philosophical, historical and multicultural approach. The student will examine beliefs, motives, values and behaviors as they relate to the teaching profession. Twenty hours of field experiences required.
EDSE 301 SECONDARY METHODS AND FIELD EXPERIENCES (3) See also EDSE 303. The study of various instructional modes and strategies applicable to the high school teacher will be introduced. Methods will include techniques useful in a multicultural society and the use of appropriate media and technology. Forty-five hours of field experiences are required. Materials fee: $\$ 15.00$. Corequisite: EDSE 303. Permission of Director of Secondary Education is required.

EDSE 302 SCHOOL CURRICULUM AND FIELD EXPERIENCES (3) In this course the student will study the planning, organization and development of the curricula of elementary and secondary schools. Principles, practices and planning will be included. Emphasis will be placed on student-centered learning. Forty-five hours of field experiences are required. Permission of the Director of Secondary Education is required.
EDSE 303 SECONDARY CURRICULUM AND FIELD EXPERIENCES (3) Sec also EDSE 301. Planning, organization and development of the secondary curriculum will be studied. Theory, practice and evaluation of student learning will be included. Forty-five hours of field experiences are required, Permission of Director of Secondary Education is required. Corequisite: EDSE 301.
EDSE 311 CLINICAL EXPERIENCES: SECONDARY (1) This course will provide clinical experiences in an elementary or secondary school setting tutoring students in order to gain practice in diagnosing learning problems, designing remediation, and using assessment techniques to measure results. Weekly seminars are held on
campus. Prerequisite: EDSE 301/501. Permission of Director of Secondary Education is required. For undergraduate credit only. Fifty-five hours of field experiences are required.
EDSE 315 DEVELOPMENTAL READING IN SECONDARY SCHOOLS (3) Sudy of reading process across the curriculum. Skill development, diagnostic techniques, prescriptive teaching, readability formulas and materials for elementary/secondary teaching.
EDSE 325 TEACHING MODERN LANGUAGES AND FIELD EXPERIENCES (3) The methods, materials and current trends in teaching foreign languages in grades K-12 will be studied. Twenty hours of field experiences are required. Permission of Director of Secondary Education is required.
EDSE 470 STUDENT TEACHING: SECONDARY AND SEMINAR (9) A weekly seminar and daily laboratory experience in secondary school teaching during the entire semester under a master teacher. Prior to registration, the student must make a formal application by the stated deadline and meet the GPA and other requirements on file in the Education Department. For undergraduate credit only.
EDSE 471 STUDENT TEACHING: K-12 AND SEMINAR (9) A weekly seminar and daily laboratory experience in elementary and secondary school teaching during the entire semester under master teachers. Prior to registration, the student must make a formal application by the stated deadline and meet the GPA and other requirements on file in the Education Department. For undergraduate credit only.

## Graduate Courses

EDSE 100 FIELD EXPERIENCES: SECONDARY (1) This course will provide structured field experiences in the middle or secondary school setting under the direction of and supervision of faculty. Weekly seminars are held on campus. Prerequisite: EDSE 501, Corequisite: EDSE 503. Permission of Director of Secondary Education is required. For graduate students only, for undergraduate credit.
EDSE 501 SECONDARY METHODS AND FIELD EXPERIENCES (3) The study of various instructional modes and strategies applicable to the high school teacher will be introduced. Methods will include techniques useful in a multicultural society and the usc of appropriate media and technology. Field experiences are required. Materials fee. Corequisite: EDSE 503. Permission of Director of Secondary Education is required.
EDSE 502 SCHOOL CURRICULUM AND FIELD EXPERIENCES (3) In this course the student will study the planning, organization and development of the curricula of elementary and secondary schools. Principles, practices and planning will be included. Emphasis will be placed on student-centered learning. Forty-five hours of field experiences are required. Permission of the Director of Secondary Education is required.
EDSE 503 SECONDARY CURRICULUM AND FIELD EXPERIENCES (3) Planning, organization and development of the secondary curriculum will be studied. Theory, practicc, and evaluation of student learning will be included. Field experiences. Permission of Director of Secondary Education is required.
EDSE 515 DEVELOPMENTAL READING IN SECONDARY SCHOOLS (3) Stucly of reading process across the curriculum. Skill development, diagnostic techniques, prescriptive teaching, readability formulas and materials for elementary/secondary teaching.
EDSE 525 TEACHING MODERN LANGUAGES AND FIELD EXPERIENCES (3) The methods, materials and current trends in teaching foreign languages in grades K-12 will be studied. Twenty hours of field experiences are required. Permission of Director of Secondary Education is required.

## SPECIAL EDUCATION

## Undergraduate Courses

EDSP 202 SPEECH AND LANGUAGE DEVELOPMENT (2) Acquisition, development, and problems of speech and language. Classroom practices, assessments, remediations and supplements with student's speech and language needs and issues in learning settings. Students required to pass phonetic/word attack skills test.
EDSP 203 SP ED: IDENTIFICATION AND ISSUES (3) Etiology, classification, needs, issues of exceptional children in the educational settings. Practices, services and rights of these children and their parents based on laws and legal procedures. Field experience is recquired.
EDSP 204 INTRODUCTIONTOTHEEMOTIONALLYDISTURBEDCHILD (2)(PSYC 271) Symptoms of maladaptive behavior in youngsters. Evaluation of etiological factors. Personality disorders, services, facilities and agencies for treatment.
EDSP 306 EDUCATION AND BEHA VIOR MANAGEMENT (2) Classroom and learning setting management, identifying, assessing and preventing problems, documenting behavior patterns, developing problem solving and decision making strategies for classroom management. Students in third and fourth years of study and in a field experience. Field experience is required.
EDSP 340 SLD: METHODS AND TECHNIQUES (2) Terminologies, definitions, identification criteria; labeling issues; social characteristics; visual and auditory processing problems; communication/language problems; learning theories and learner needs; IEP procedures and issues; behavioral and instructional techniques and methods. Field experience is required.
EDSP 341 SBH: METHODS AND TECHNIQUES (2) Terminologies, definitions, identification criteria; labeling issues; etiology and diagnosis related to theoretical approaches; legal system issues; social characteristics; behavioral attitudes; IEP procedures and issues; behavioral and instructional techniques and methods. Field experience is required.
EDSP 342 TEAMING AND COLLABORATION (2) Self-assessment and development of interpersonal skills needed for teaming and collaboration in educational settings with parents, teachers, administrators, paraprofessionals and other specialists. Interview, observe, investigate and discuss various communication and small group strategies and techniques used in teaming and collaboration. Role playing, video taping, practicing teaming and collaboration roles. Field experience is required.
EDSP 343 SP ED: ASSESSMENT AND EVALUATION (3) Formal and informal testing and assessment practices, procedures, grading, recording and disseminating results. Portfolio assessment. Field practice and experience. Classroom application and implementation. Fee: $\$ 10.00$. Field experience is required.
EDSP 344 SP ED: ADAPTATIONS AND MODIFICATIONS (2) Learning and instructional adaptations and modifications to specific learning and behavior problems, styles, and needs. Focusing on learning issue - identifying, developing and implementing instructional strategies and techniques and computer technology. Required lab time.
EDSP 345 SLD/SBH CURRICULUM: THEORIES AND PRACTICES (3) Curriculum theories and practices related to specific learning disabilities and severe behavior handicapped. Designing learning environments and instructional programs for active learner participation which incorporates evaluation, planning, implementing and management procedure for individual learner cognitive and affective needs.
EDSP 347 SLD: CLINICAL FIELD EXPERIENCE (1) Weekly field experiences - observation, interviewing and participating in various SLD settings. Seminar discussion group.
EDSP 348 SBH: CLINICAL FIELD EXPERIENCE (1) Weekly field experiences - observation, interviewing and participating in various SBH settings. Seminar discussion group.

EDSP 349 DH: METHODS AND TECHNIQUES (2) Terminologies, definitions, identification criteria; labeling issues; placement and service issues; causes and theories of intellectual disabilities; complications and implications for learning; psychological characteristics; social/emotional aspects; legal issues; IEP procedures and issues; social, functional, behavioral, learning methods and techniques. Field experience is required.
EDSP 350 AUTISM AND PDD (2) Autism and PDD problems, needs and issues. Informal classroom assessment, management, instructional planning, implementing IEP goals and objectives into instructional methods and techniques. (Field experience is required.)
EDSP 351 MH: METHODS AND TECHNIQUES (2) Terminologies, definitions, identification criteria; labeling issues; placement and service issues; medical aspects, complications and implications for learning; social and psychological characteristics; impact of multiple disabilities on behavior and learning; IEP procedures and issues; instructional and management techniques and methods. Field experience is required.
EDSP 352 COMMUNICATION STRATEGIES AND TECHNOLOGY (2) Understanding and implementation of everyday functional communication methods and techniques through various theories, systems and technologies for individual student needs.
EDSP 353 JOB TRAINING AND TRANSITIONS (2) Methods and techniques for occupational and job training, placement and transitions. Curriculum development, community and agency involvement and collaboration. Legal aspects and followup services.
EDSP 354 DH/MH: ASSESSMENT AND EVALUATION (2) Formal and informal assessment tools, practices, procedures and program implementation. (Field experience is required.)
EDSP 355 DH/MH CURRICULUM: THEORIES \& PRACTICES (3) Curriculum theories and practices related to development disabilities and multi-handicapped. Designing learning environments and instructional programs for active learner participation which incorporate evaluation, planning, implementing and management procedures that are age appropriate for individual learner adaptive, functional, social, community and vocational needs.
EDSP 356 DH: CLINICAL FIELD EXPERIENCE (1) Wcekly field experiences - observation, interviewing and participating in various DH settings to develop and practice intervention skills. Required seminar discussion group.
EDSP 357 MH: CLINICAL FIELD EXPERIENCE (1) Weekly field experiences - observation, interviewing and participating in various MH settings to devclop and practice intervention skills. Required seminar discussion group.
EDSP 400 SP ED: CURRENT ISSUES (2) Seminar course addressing curtent issues and trends in Special Education. Speakers, individual readings, research and discussions.
EDSP 401 SLD/SBH: STUDENT TEACHING/SEMINAR (4) Twenty weeks of field experience that is planned, supervised, and evaluated. Taken along with elementaryf field experience. Full teaching and instructional responsibilities. Required seminar.
EDSP 404
rience that is planned, supervised and evaluated. 'Taken along with elementary/ secondary field experience. Full teaching and instructional responsibililies. Required seminar.

## Graduate Courses

EDSP 502 SPEECH AND LANGUAGE DEVELOPMENT (2) Acquisition, development, and problems of speech and language. Classroom, practices, assessments, remediations and supplements with student's speech and language needs and issues in learning settings. Students required to pass phonetic/work attack skills test.

SP ED: IDENTIFICATION AND ISSUES (3) Etiology, classification, needs, issues of exceptional children in the educational settings. Practices, services and rights of these children and their parents based on laws and legal procedures. (Field experience is required.)
EDSP 504 INTRODUCTION TO THE EMOTIONALLY DISTURBED CHILD (2) Symptoms of maladaptive behavior in youngsters. Evaluation of etiological factors. Personality disorders, services, facilities and agencies for treatment.
EDSP 506 EDUCATION AND BEHAVIOR MANAGEMENT (2) Classroom and learning setting management, identifying, assessing and preventing problems, documenting behavior patterns, developing problem solving and decision making strategies for classroom management. Students in third and fourth years of study and in a field experience. (Field experience is required.)
EDSP 540 SLD: METHODS AND TECHNIQUES (2) Terminologies, definitions, identification criteria; labeling issues; social characteristics; visual and auditory processing problems; communication/language problems; learning theories and leamer needs; IEP procedures and issues; behavioral and instructional techniques and methods. (Field experience is required.)
EDSP 541 SBH: METHODS AND TECHNIQUES (2) Terminologies, definitions, identification criteria; labeling issues; etiology and diagnosis related to theoretical approaches; legal system issues; social characteristics; behavioral attitudes; IEP procedures and issues; behavioral and instructional techniques and methods. (Field experience is required.)
EDSP 542 TEAMING AND COLLABORATION (2) Self-assessment and development of interpersonal skills needed for teaming and collaboration in educational settings with parents, teachers, administrators, paraprofessionals and other specialists. Interview, observe, investigate and discuss various communication and small group strategies and techniques used in teaming and collaboration. Role playing, video taping, practicing teaming and collaboration roles. Field experience is required.
EDSP 543 SP ED: ASSESSMENT AND EVALUATION (3) Formal and informal testing and assessment practices, procedures, grading, recording and disseminating results. Portfolio assessment. Field practice and experience. Classroom application and implementation. Fee $\$ 10.00$. (Field experience is required.)
EDSP 544 SP ED: ADAPTATIONS AND MODIFICATIONS (2) Learning and instructional adaptations and modifications to specific learning and behavior problems, styles, \& needs. Focusing on learning issues - identifying, developing and implementing instructional strategies and techniques and computer technology. Required lab time.
EDSP 545 SLD/SBH: CURRICULUM: THEORIES AND PRACTICES (3) Curriculum theories \& practices related to specific learning disabilities and severe behavior handicapped. Designing learning environments and instructional programs for active learner participation which incorporate evaluation, planning, implementing and management procedure for individual learner cognitive and affective needs.
EDSP 547 SLD: CLINICAL FIELD EXPERIENCE (1) Weekly field experiences - observation, interviewing and participating in various SLD settings. Seminar discussion group.
EDSP 548 SBH: CLINICAL FIELD EXPERIENCE (1) Weekly field experiences - observation, interviewing and participating in various SBH settings. Seminar discussion group.
EDSP 549 DH: METHODS AND TECHNIQUES (2) Terminologies, definitions, identification criteria; labeling issues; placement and service issues; causes and theories of intellectual disabilities; complications and implications for learning; psychological characteristics; social/emotional aspects; legal issues; IEP procedures and issues; social, functional, behavioral, learning methods and techniques. (Field experience is required.)
EDSP 550 AUTISM AND PDD (2) Autism and PDD problems, needs and issues. Informal classroom assessment, management, instructional planning, implementing IEP
goals and objectives into instructional methods and techniques. (Field experience is required.)
EDSP 551 MH: METHODS AND TECHNIQUES (2) Terminologies, definitions, identification criteria; labeling issues; placement and service issues; medical aspects, complications and implications for learning; social and psychological characteristics; impact of multiple disabilities on behavior and learning; IEP procedures and issues; instructional and management techniques and methods. (Field experience is required.)
EDSP 552 COMMUNICATION STRATEGIES AND TECHNOLOGY (2) Understanding and implementation of everyday functional communication methods and techniques through various theories, systems and technologies for individual student needs.
EDSP 553 JOB TRAINING AND TRANSITIONS (2) Methods and techniques for occupational and job training, placement and transitions. Curriculum development, community and agency involvement and collaboration. Legal aspects and followup services.
EDSP 554 DH/MH: ASSESSMENT AND EVALUATION (2) Formal and informal assessment tools, practices, procedures and program implementation. (Field experience is required.)
EDSP 555 DH/MH CURRICULUM: THEORIES \& PRACTICES (3) Curriculum theories and practices related to development disabilities and multi-handicapped. Designing learning environments and instructional programs for active learner participation which incorporates evaluation, planning, implementing and management procedures that are age appropriate for individual learner adaptive, functional, social, community and vocational needs.
EDSP 556 DH: CLINICAL FIELD EXPERIENCE (1) Weekly field experiences - observation, interviewing and participating in various DH settings to develop and practice intervention skills. Required seminar discussion group.
EDSP 557 MH: CLINICAL FIELD EXPERIENCE (1) Weekly field experiences - observation, interviewing and participating in various MH settings to de velop and practice intervention skills. Required seminar discussion group.
EDSP 560 PSYCHOLOGY OF THE GIFTED/TALENTED (3) Identification of gifted/ talented, theories of intelligence and creativity, comparisons of tools and strategies, characteristics and needs of gifted/talented,
EDSP 563 RESOURCE MATERIAL AND TECHNOLOGY: GIFTED/TALENTED (3) Selection criteria, instructional strategies, special resource materials and technologies, critical and creative thinking techniques, questioning strategies, material development and implementation. (Field experience is required.)
EDSP 564 GIFTED/TALENTED PROGRAM: CURRICULUM AND DESIGN (3) Curriculum design, development and coordination based on various theories and philosophies-models. Program assessment needs, issues, design, development and coordination.
EDSP 565 GE: CLINICAL FIELD EXPERIENCE (1) Weekly field experiences - observation, interviewing and participating in various Gifted/Talented settings. Seminar discussion group.
EDSP 570 FOUNDATIONS IN EARLY CHILDHOOD SP ED (3) General philosophical course topics EC SP ED; literature, legal issues, developmental appropriate theory, medical, biological and environmental learning and developmental factors, play based and child centered educational activities. Research and resources. (Field experience is required.)
EDSP 571 PLAY AND ITS ROLE IN DEVELOPMENT AND LEARNING (3) Focus on value, role and importance of play. Play based skills and techniques, assessment, planning, facilitating, interacting, safety, management and procedures. (Field experience is required.)

EDSP 572 EC SP ED LEARNING THEORIES (3) Investigate learning literacy theory models for early intervention. Design developmental intervention curriculum. Demonstrate interactive collaborative skills.
EDSP 573 OBSERVATION AND EVALUATION: EC SP ED (4) Early childhood intervention assessment, evaluation, research techniques. Data collection, summarization, information integration \& team collaboration. (Field experience in required.)
EDSP 574 ECSPED CURRICULUM PRACTICES: DEVELOPMENT AND DESIGN (3) Curriculum practices of designing and developing early childhood intervenience classroom methods/materials. Various classroom observations and participations for practice and development of intervention skills. (Field experience is required.)
EDSP 575 EEH: CLINICAL FIELD EXPERIENCE (1) Weekly field experiences - observation, interviewing and participating in various EEH settings to develop and practice intervention skills. Required seminar discussion group.
EDSP 597 CREATING A PROCESS FOR THE EDUCATION OF ALL STUDENTS: I
(1) Specially designed semester workshop for individual schools dealing with PL 94-142.
EDSP 598 CREATING A PROCESS FOR THE EDUCATION OF ALL STUDENTS: II (1) Specially designed semester workshop for individual schools dealing with PL 94-142.
EDSP 600 SP ED: CURRENT ISSUES (2) Seminar course addressing current issues and trends in Special Education. Speakers, individual readings, research and discussions.
EDSP 601 SLD/SBH: PRACTICUM/SEMINAR (4) Twenty weeks of field experience that is planned, supervised and evaluated. Full teaching and instructional responsibilities. Required seminar.
EDSP 602 SLD: PRACTICUM/SEMINAR (3) Fifteen weeks of field experience that is planned, supervised and evaluated. Full teaching and instructional responsibilities. Required seminar.
EDSP 603 SBH: PRACTICUM/SEMINAR (3) Fifteen weeks of field experience that is planned, supervised and evaluated. Full teaching and instructional responsibilities. Required seminar.
EDSP $604 \mathrm{DH} / \mathrm{MH}:$ PRACTICUM/SEMINAR (4) Twenty weeks of field experience that is planned, supervised and evaluated. Full teaching and instructional responsibilities. Required seminar.
EDSP 605 DH: PRACTICUM/SEMINAR (3) Fifteen weeks of field experience that is planned, supervised and evaluated. Full teaching and instructional responsibilities. Required seminar.
EDSP 606 MH: PRACTICUM/SEMINAR (3) Fifteen weeks of field experience that is planned, supervised and evaluated. Full teaching and instructional responsibilities. Required seminar.
EDSP 607 GE: PRACTICUM/SEMINAR (3) Fifteen weeks of field experience that is planned, supervised and evaluated. Full teaching and instructional responsibilities. Required seminar.
EDSP 608 EEH: PRACTICUM/SEMINAR (3) Fifteen weeks of field experience that is planned, supervised and evaluated. Full teaching and instructional responsibilities. Required seminar.
EDSP 695 INDIVIDUAL READINGS AND RESEARCH SP ED (1-6) Independent reading and research based on student's interest and concentration in the field of Special Education.

## SPORT MANAGEMENT

Undergraduate Courses

EDSM 110
EDSM 132
EDSM 322 FACILITY AND EVENT MANA GEMENT (3).
EDSM 348 LEGAL AND ETHICAL ISSUES IN SPORT (3). EDSM 370 BASIC AQUATICS AND POOL MANAGEMENT (2). EDSM 377 SPORT PSYCHOLOGY (3). EDSM 471 COMPUTER APPLICATION IN SPORT STUDIES (2). EDSM 495 INTERNSHIP IN SPORT MANAGEMENT (3-9).

## Graduate Courses

EDSM 521
EDSM 522 RESEARCH AND STATISTICS (3).
EDSM 523 SPORT ADMINISTRATION SEMINAR (3).
EDSM 595 SPORT ADMINISTRATION: MARKETING (3). EDSM 596 SPORT ADMINISTRATION: FINANCE (3).
EDSM 598 LEGAL AND ETHICAL ISSUES IN SPORT AND PE (3).
EDSM 622 PERSONNEL ISSUES IN SPORT MANAGEMENT (3).
EDSM 632 SPORT EVENT MANAGEMENT AND PROMOTION (3).
EDSM 642 SPORT FUND-RAISING (3).
EDSM 652 NCAA: RULES, REGULATION, POLICIES (3).
EDSM 662 PR AND COMMUNICATION IN SPORT (3).
EDSM 664 FACILITY DESIGN AND PLANNING (3).
EDSM 668 ADMINISTRATION OF FITNESS AND WELLNESS PROGRAMS (3).
EDSM 692 SPORT ADMINISTRATION RESEARCH PROJECT (3).
EDSM 695 INTERNSHIP IN SPORT ADMINISTRATION (3-6).

## English (ENGL)

Lower Division Courses

ENGL 100 BASIC ENGLISH (3).
ENGL 101 ENGLISH COMPOSITION (3) Guidance in writing more clearly, thoughtully, and creatively. Focus on the writing process including heuristics, revision, organization, editing.
ENGL 115 RHETORIC (3) Intensive theoretical and practical study of discourse. For students who have acquired basic writing skills. Required of English majors.

The following lower division colurses are introductory literature courses for non-majors.
Prerequisite: ENGI 101 or ENGL 115.
ENGL 121 STUDIES IN POETRY (3).
ENGL 122 STUDIES IN DRAMA (3).
ENGL 124 STUDIES IN FICTION (3).
ENGL 127 INTRODUCTION TO LITERATURE (3).
ENGL 128 STUDIES IN BLACK LITERATURE (3).
ENGL 129 STUDIES IN RACE AND GENDER IN LITERATURE (3) Introductory course for Minorities' and Women's Studies Minor.
ENGL 130 STUDIES IN THE EPIC (3) (CLAS 130).
ENGL 132 STUDIES IN WOMEN'S LITERATURE (3).
ENGL 142 CLASSICAL TRAGEDY (3) (CLAS 142).
ENGL 146 CLASSICAL COMEDY AND SATIRE (3) (CLAS 146).

## Sophomore Courses <br> Prerequisite: ENGL 101 or ENGL 115

ENGL 205 LITERATURE AND THE MORAL IMAGINATION (3) Personal and social ethical issues in literature. Honors section required of English majors. Fulfills E/R\&S Focus Literature and the Moral Imagination requirement. Prerequisite/ Corequisite to PHIL 100 and THEO 111.
ENGL 221 POETRY (3) An intensive critical and historical study of British and American poetry. Required of English majors.
ENGL 222 RHETORIC II:THEORY \& TEXT (3) Study of contemporary literary theory and its application to selected texts. Required of English majors.

## Upper Division Courses

ENGL 304 TEACHING AND RESEARCH IN WRITING (3) Current theories on the teaching of writing in secondary school. Instruction and practice in expository writing.
ENGL 307 WRITING INTERNSHIP (3) Available only by arrangement with department chair.
ENGL 308 CREATIVE WRITING (3) Introduction to creative writing, including practice in poetry, drama, and fiction.
ENGL 309 CREATIVE WRITING: POETRY (3) Instruction and intensive practice in writing poetry.
ENGL 310 CREATIVE WRITING: FICTION (3) Instruction and intensive practice in writing fiction.
ENGL 311 POPULAR WRITING (3) Critical study of popular cultural forms and instruction in writing them.
ENGL 314 WRITING JOURNALS AND AUTOBIOGRAPHY (3) Critical study of these forms and instruction in writing them.
ENGL 315 COMPOSITION TUTORING (3) Training in the theory and practice of composition tutoring. Required of all prospective Writing Center tutors.
ENGL 320 TOPICS IN LINGUISTICS (3) The socio-synchronic study of language theory and practice. Language systems (words, sentence patterns, sounds and their meaning) and language diversity (class, race, gender, ethnicity, region, and institution).

ENGL 321

ENGL 322 ETHNOLINGUISTICS (3) A socio-anthropological study of language, culture, and communication. Conversational and discourse analysis. No linguistics background necessary.
ENGL 344 MAJOR BLACK WRITERS OF THE WORLD (3) Study of black authors from around the world with emphasis on African, Caribbean, and British Commonwealth writers.
ENGL 345 THE COMIC SPIRIT IN WORLD DRAMA (3)-Dramatic comedy from various world literatures. Reading in theory of comedy.
ENGL 349 MYTH IN WORLD LITERATURE (3) An examination of myth and archetype in literature from ancient times to the twentieth century. Includes non-Western writers.
ENGL 350 MODERN JEWISH FICTION (3) The narrative tradition of European and American Jewish writers from the late nineteenth century to the present.
ENGL 353 ASIAN-AMERICAN LITERATURE (3) Autobiography, poetry, drama, and fiction by Asian-American authors from the late nineteenth century to the present.
ENGL 358 BLACK AMERICA SINCE 1865 (3) (HIST 325) Examination of historical and literary texts by black Americans from 1865 through the mid-1960s.
ENGL 360 MAJOR WOMEN AUTHORS (3) Study of women authors of selected genres and periods.
ENGL 361 16TH AND 17TH CENTURY WOMEN'S LITERACY (3) A study of the literacy and literature of ordinary and celebrated women in England and America.
ENGL 363 WOMEN WRITERS OF THE '9OS (3) Study of literature by British and American women of the $1790 \mathrm{~s}, 1890 \mathrm{~s}$, and 1990 s in its social, historical, and cultural contexts.
ENGL 371 LITERATURE OF WAR AND PEACE (3) The representation and interpretation of war and peace primarily in European and American literature. Fulfills the E/R\&S Focus elective. Prerequisite/Corequisite to PHIL 100 and THEO 111.
ENGL 373 MORAL VISIONS IN THE DRAMA (3) This course emphasizes the relationship of the moral vision of the set of inclucled readings to the cultural context of the particular societies. This congruence or conflict is then used to help the students' reflect on their own moral visions. Fulfills E/R\&S Focus elective. Prerequisite/ Corequisite to PHIL 100 and THEO 111.
ENGL 376 MODERN ANGLO-IRISH LITERATURE (3) Poetry, drama, and fiction by a variety of authors including Yeats, O'Casey, and Joyce.
ENGL 386 LITERARY MONSTERS (3) The monster as symbolic figure from Dante to the twentieth century.
ENGL 392 SEMINAR: IMAGES OF PEACE IN LITERATURE (3) A study of twentieth century literacy representations of attempts at peacemaking and reconciliation.
ENGL 396 SEMINAR: LITERARY ILLNESS • HONORS (3) An exploration of illness as metaphor in literature from various cultures and periods.
ENGL 405 HISTORY OF LITERARY CRITICISM (3) From Aristotle through the modern period. Recommended for students planning to go to graduate school in English.
ENGL 408 DANTE AND THE MODERN READER (3) Close reading of Dante's "Vita Nuova" and the canticles of the "Commedia."
ENGL 410 CHAUCER: THE CANTERBURY TALES (3),
ENGL 415 EARLY ENGLISH LITERATURE (3) Critical and cultural study of classic texts from Beowulf through Spenser.
ENGL 425 SHAKESPEARE (3) Major plays in the genres of tragedy, comedy, tragicomedy, and history.
ENGL 429 RENAISSANCE DRAMA (3) Non-Shakespearean drama of the Elizabethan and Jacobean periods: Marlowe, Jonson, Webster, and others.
ENGL 430 SEVENTEENTH-CENTURY LITERATURE (3) The poetry and prose of the 17th century from Donne to Milton.

ENGL 441 THE AGE OF EXPERIENCE: 1660-1798 (3) British poetry, drama, and fiction including works by Dryden, Behn, Pope, Swift, Defoe, Sterne, and Wollstonecraft.
ENGL 450 BRITISH ROMANTIC LITERATURE (3) Poctry and selected nonfiction prose from 1780 to 1830 .
ENGL 463 VICTORIAN POETRY AND POETICS (3) This course is a study of Victorian poetry and Victorian theories of Arnold, Dante and Christina Rossetti, Elizabeth Barrett Browning, William Morris, and Gerald Manley Hopkins. Attention is also given to recent scholarship and criticism of Victorian poetry.
ENGL 464 THE ENGLISH NOVEL: DICKENS TO CONRAD (3) A close reading of the major novels of the mid and late nineteenth century. Attention will be given to three long ( 700 to 900 ) page novels as well as two shorter novels. Emphasis will be on the treatment of significant themes such as gender relations, class relations, imperialism, sexuality, social and historical change, and moral conflict and ambiguity. The nineteenth century is the great age of the novel in England and this course will attempt to introduce students to the range, depth, and complexity of this form.
ENGL 470 MODERN BRITISH LITERATURE (3) Twentieth-century British poetry, liction, and drama. Student should have some background in the analysis of poetry.
ENGL 472 MODERN DRAMA (3) British, American, and European drama from Ibsen to the present.
ENGL 480 THE AMERICAN RENAISSANCE: 1830-1865(3) Textual and cultural study of Transcendentalism, the American romance, and other writing of this period.
ENGL 481 AMERICAN REALISM: 1865-1915 (3) Textual and cultural study of various genres from the Civil War to the eve of Modernism.
ENGL 482 MODERN AMERICAN FICTION (3) Textual and cultural study of American short stories and novels from 1915 to 1945.
ENGL 483 MODERN AMERICAN POETRY (3) Textual and cultural study of poets such as Pound, Eliot, Williams, and Stevens.
ENGL 484 AFRO-AMERICAN LITERATURE (3) Textual and cultural study of AfroAmerican writing from the 18th century to the present.
ENGL 485 AMERICAN GOTHIC LITERATURE (3) Texts of terror and horror in American literature of the 19th and 20th centuries.
ENGL 486 CONTEMPORARY AMERICAN FICTION (3).
ENGL 490 SEMINAR: CONTEMPORARY AMERICAN POETRY - HONORS (3) Intensive study of selected contemporary poets.
ENGL 499 SENIOR SEMINAR (3) Topics vary. Required of senior English majors.

## Graduate Courses

ENGL 512 LITTERARY THEORY (3) Current theory about the nature of literature and interpretation.
ENGL 515 COMPOSITION TUTORING (3) Training in the theory and practice of composition tutoring. Required for all prospective Writing Center tutors.
ENGL 520 TOPICS IN LINGUISTICS (3) The socio-synchronic study of language theory and practice, Language systems (words, sentence patterns, sounds and their meaning) and language diversity (class, race, gender, ethnicity, region, and institution).
ENGL 521 HISTORY OF THE ENGLISH LANGUAGE (3) The socio-historical story of English. Origins, variation, change, legitimization, maintenance, and spread of a world language.
ENGL 525 SHAKESPEARE (3) Study of selected plays and themes..
ENGL 560 STUDIES IN WOMEN'S LITERATURE (3).
ENGL 601 LANGUAGE OF THE HUMANITIES (3) (HUMN 511) Critical study of topic, audience-, and author-directed discourse. Intensive practice in writing.
ENGL 610 CHAUCER: MAJOR WORKS (3) Study of such texts as The Canterbury Tales and Troilus and Criseyde.
ENGL 690 SEMINAR: VICTORIAN AUTHORS (3) Study of selected topics and authors from this period.

ENGL 691 SEMINAR: VICTORIAN POETRY AND ART (3) Study of the interaction between poetry and the visual arts during this period.
ENGL 693 SEMINAR: MODERN JEWISH FICTION (3) Study of selected European and American Jewish writers of fiction from the late 19 th century to the present.
ENGL 694 SEMINAR: CONTEMPORARY AMERICAN FICTION (3) Study of selected American novels and short stories of the last few decades.
ENGL 695 SEMINAR: CONTEMPORARY AMERICAN POETRY (3) Study of selected American poets and poetic movements from the past few decades.
ENGL 697 SEMINAR: LITERARY ILLNESS (3) Illness as metaphor in literature from various cultures and periods.
ENGL 700 MASTER'S THESIS (6).

## Entrepreneurial Studies (ENTR)

The prefix ENTR (Entrepreneurial Studies) designates courses offered through the Management Department which are particularly relevant for students interested in entrepreneurship. Other relevant courses may be found in the departmental listings for Marketing, Finance, and Accounting.

## Undergraduate Courses

ENTR 303 CO-OP EDUCATION/ENTREPRENEURIAL STUDIES: JUNIOR LEVEL (3-6) An elective cooperative experience where students earn academic credit while performing approved entrepreneurial-related work experience. Prerequisite: MGMT 301, 55 credit hours completed, 2.75 gpa, department approval required.
ENTR 311 ENTREPRENEURSHIP (3) Identification and screening of business opportunities; analysis of personal, marketing, financial, and operational factors for start-ups/ franchises/buyouts; writing a business plan; family business issues. Corequisite: MGMT 300.
ENTR 341 MANAGING THE ENTREPRENEURIAL VENTURE (3) Financial, legal, marketing, interpersonal, and organizational issues in owning/operating a small and growing business. Corequisite: ENTR 311.
ENTR 403 CO-OP EDUCATION/ENTREPRENEURIALSTUDIES: SENIOR LEVEL (3-6) An elective cooperative experience where students earn academic credit while performing approved entrepreneurial-related work experience. Prerequisite: MGMT 301,55 credit hours completed, 2.75 gpa , departmental approval required.
ENTR 495 SMALL BUSINESS CONSULTING (3) An individual project contributing to the growth of a new or existing small business. Prerequisite: ENTR 311 or 341 . Open to non-ENTR majors only with permission of the instructor.

## Graduate Courses

ENTR 911 NEW VENTURE CREATION (3) Generating, recognizing, and evaluating new venture opportunities. Developing an entry strategy, writing a business plan, and obtaining start-up financing. Entrepreneurial self-assessment. Prerequisites or Corequisites: ACCT 901, FINC 901, and MKTG 901.
ENTR 931 CORPORATE INTRAPRENEURSHIP (2) Managing innovation and creativity in large organizations. New venture development teams. Joint venture, acquisition, and licensing strategies. Prerequisites: MGMT 901.
ENTR 941 MANAGING THE NEW AND GROWING VENTURE (2) (MGMT 941) Develops understanding as to why some ventures (new and/or existing) achicve their goals, grow, and attract resources while others stagnate or go bankrupt. Business simulations, interactive multimedia programs, guest speakers, and field trips will be used to accomplish course objectives. Prerequisites: ACCT 901, FINC 901, and MKTG 901.
ENTR 943 VENTURE CAPITAL (1) Analysis of the venture capital industry. How to find and work with professional investors. Principles and examples of creative deal making. Prerequisites: ACCT 901 and FINC 901.
ENTR 947 FRANCHISING (1) Analysis and evaluation of franchising opportunities. Developing franchise systems. Developing effective franchiser-franchisee relationships.
ENTR 949 SMALL BUSINESS VALUATION (1) Techniques for valuing closely held firms. Structuring a purchase or sale. Tax implications for buyer and seller. Prerequisite: ACCT 901, and FINC 901.
ENTR 95I FAMILY BUSINESS ISSUES (2) Resolving personal and interpersonal issues, ownership succession issues, and strategic planning issues in family-owned businesses.
ENTR 996 SMALL BUSINESS CONSULTING (2) Student teams serve as consultants to small business enterprises. Site visits, problem analysis, and recommended solutions. May be taken alone or with project ENTR 997. Prerequisites: ACCT 901, FINC 90I, and MKTG 901.
ENTR 997 SMALL BUSINESS CONSULTING PROJECT (1) Corequisite with ENTR 996.

## Finance (FINC)

## Undergraduate Courses

FINC 300 BUSINESS FINANCE (3) The basic principles and techniques used in the financial management of a business with special emphasis on the corporation. Prerequisites: ACCT 200, MATH 156.
FINC 303 CO-OP EDUCATION/FINANCE: JUNIOR LEVEL (3-6) An elective cooperative experience where students earn academic credit while performing approved finance-related work experience. Prerequisite: MGMT 301, 55 credit hours completed, 2.75 gpa , department approval required.
FINC 365 INVESTMENTS (3) Evaluation, selection and management of securities and portfolios including a study of theory using analytical approaches. Prerequisite: FINC 300.
FINC 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: FINC 300.
FINC 401 FINANCIAL MANAGEMENT (3) Financial theory and its applications to corporation finance. Prerequisite: FINC 300.
FINC 403 CO-OPEDUCATION/FINANCE: SENIOR LEVEL (3-6) An elective cooperative experience where students earn academic credit while performing approved finance-related work experience. Prerequisite: MGMT 301, 55 credit hours completed, 2.75 gpa, departmental approval required.
FINC 433 ENTREPRENEURIAL FINANCE (3) Explores cash flow, valuation and financing issues of special concern to start-up businesses and closely held firms. Prerequisite: FINC 300.
FINC 440 PURCHASE, SALE, AND VALUATION OF CLOSELY HELD FIRMS (3) Study of methods and techniques for valuing closely held firms for analysis, purchase or sale. Prerequisite: FINC 300.
FINC 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: FINC 300.
FINC 460 SECURITY ANALYSIS (3) Review of fundamental analysis, intrinsic security analysis and technical timing tools, Prerequisite: FINC 365.
FINC 465 OPTIONS AND FUTURES MARKETS (3) Options and futures strategies, the valuation of options and futures, and the theory of hedging. Prerequisite: FINC 365.
FINC 475 REAL ESTATE FINANCE (3) Properties and principles of institutions, instruments, and methods used to finance commercial, industrial and residential real estate. Prerequisite: FINC 300.

CASES AND PROBLEMS IN FINANCE (3) Integrates the subjects of the core finance courses. Consists of case studies involving financial analysis, capital budgeting, capital structure, and related areas. Prerequisite: ACCT 350 or ACCT 301; FINC 401 and FINC 365, one as Prerequisite, one as Corequisite to this course.

FINC 801 CORPORATE FINANCE (3) The basic principles and techniques used in the financial management of a business with special emphasis on the corporation. Prerequisite: ACCT 802 or equivalent. Recommend ECON 802 and STAT 801 or equivalent.
FINC 901 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: All Business Skills and required Foundation Skills courses.

FINC 902
INVESTMENT MANAGEMENT (3) Evaluation, selection, and management of securities and portfolios. Includes a study of theory using analytical approaches. Prerequisite: FINC 901.
FINC 920 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. Prerequisite: FINC 901.
FINC 921 OPTIONS AND FUTURES MARKETS (3) Options and futures strategies: the valuation of options and futures, the theory of hedging. Prerequisite: FINC 901.
FINC 922 ENTREPRENEURIAL FINANCE (3) Explores cash flow, valuation and financing issues of special concern to start-up businesses. Prerequisite: FINC 901.
FINC 923 CONTEMPORARY FINANCIAL INSTITUTIONS (3) Trends affecting financial institutions and the financial system: deregulation, competition, overlap of functions between depository and non-depository financial institutions. Prerequisite: FINC 801, or equivalent.
FINC 932
INTERNATIONAL FINANCE AND INVESTMENTS (3) Background, tech- niques, 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: FINC 901.

FINC 940 PURCHASE, SALE, AND VALUATION OF CLOSELY HELD FIRM (3)
Techniques for valuing closely held firms and methods of structuring a purchase or sale. Prerequisite: FINC 901
FINC 951 MONEY AND CAPITAL MARKETS (3) Financial institutions and markets, the theory of interest rate determination, monetary policy, and fiscal policy. Prerequisite: FINC 801, or equivalent.
FINC 953 PROBLEMS AND CASES IN FINANCE (3) Case studies involving financial analysis, capital budgeting, capital structure, and related areas. Prerequisite: FINC 901.

FINC 960 SECURITY ANALYSIS (3) Review of fundamental analysis, intrinsic security analysis and technical timing tools. Prerequisite: FINC 901.
FINC 962 INVESTMENT MANAGEMENT II (3) Portfolio theory, technical and fundamental analysis, efficient markets, bond management, international investments, options, futures. Prerequisite: FINC 902.
FINC 963 FIXED INCOME AND DEBT MANAGEMENT (3) Evaluation, selection, and management of fixed-income securities and debt positions. Prerequisite: FINC 901.
FINC 975 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: FINC 901.
FINC 980 RISK MANAGEMENT AND INSURANCE (3) Introduces a management approach for the handling of non-speculative risks confronting individuals and organizations. Emphasis is placed on the tactics, techniques, and strategies for risk managers in a corporate atmosphere and to insurance as a technique used to handle risk. Examination of employee benefit plans including group life, health, and retirement benefits. Current issues confronling risk managers, such as new insurance products, tort reform, envisonmental liability, risk retention groups, insurance cycles and crisis, etc., will also be explored. Prerequisite: FINC 801.
FINC 983 APPLICATIONS IN CORPORATE FINANCE (3) Gives advanced treatment to questions raised in FINC 901. Topics include the application of option pricing in capital budgeting, managing liabilities with interest-rate and foreign-currency swaps, and the analysis of mergers and acquisitions, among others. Prerequisite: FINC 901 . Suggested prerequisite: FINC 902.
FINC 985 FINANCIAL THEORY (3) Examines the concepts and foundations of financial theories. Prerequisite: FINC 902.
FINC 995 INDIVIDUAL READINGS AND RESEARCH (2-3) Open to especially qualified students with the consent of the chairman of the appropriate department and dean.

## French (FREN)

## Lower Division Courses

FREN 101 ELEMENTARY FRENCHI (3) An introduction to basic language skills through emphasizing the acquisition of high-frequency vocabulary and the development of cultural awareness.
FREN 102 ELEMENTARY FRENCH II (3) The second semester elementary course which is a continuation of FREN 101. Prerequisite: FREN 101 (unless waived).
FREN 20I INTERMEDIATE FRENCH I (3) The first semester intermediate course which is a continuation of FREN 102 with a particular emphasis on the development of more creative use of the language. Prerequisite: FREN 102 (unless waived).
FREN 202 INTERMEDIATE FRENCH II (3) A communicative-oriented course emphasizing reading and writing skills through the study of authentic materials dealing with francophone culture. The course includes a comprehensive grammar review. Prerequisite: FREN 201 (unless waived).
FREN 203 INTRODUCTION TO BUSINESS FRENCH (3) Development of four skills in the context of the contemporary francophone business world by means of readings, discussions and written practice. Emphasis on the terminology of commercial French. May be taken as an alternative to FREN 202.

## Upper Division Courses

Prerequisite: FREN 202/3 or the equivalent. Students MUST take at least one of the following courses before enrolling in other upper divisions courses: FREN 300-351.
FREN 300 ADVANCED FRENCHI (3) An upper-division course which is a continuation of FREN 202.
FREN 301 ADVANCED FRENCH II (3) An upper-division course which offers advanced grammar study through authentic texts.
FREN 302 FRENCH CONVERSATION (3) An upper-division course designed for the development of speaking and listening skills through active participation by students. Discussions and activities are based on contemporary issues.
FREN 303 FRENCH COMPOSITION (3) An upper-division course designed for the development of both formal and informal writing skills. Types of writing include journal, letter, summary, and analytical.
FREN 315 BUSINESS FRENCH I (3) A continuation of FREN 203 as preparation for the Paris Chamber of Commerce examination, the certificat pratique.
FREN 350 FRENCH CULTURE AND CIVILIZATION I (3) Representative history and civilization of France.
FREN 351 FRENCH CULTURE AND CIVILIZATION II (3) Representative history and civilization of the francophone world.
FREN 399 SENIOR PROJECT (1) Research for senior project.
FREN 420 SURVEY OF FRENCH LITERATURE I (3) A chronological study of French literature and civilization in the seventeenth and eighteenth centuries.
FREN 42] SURVEY OF FRENCH LITERATURE II (3) A chronological study of French literature and civilization in the nineteenth and twentieth centuries.
FREN 430 THE MIDDLE AGES AND THE RENAISSANCE (3) A chronological study of French literature and civilization in the Middle Ages and the sixteenth century.
FREN 432 THE SIXTEENTH CENTURY (3) An in-depth study of representative authors from the French Renaissance, such as Ronsard, Du Bellay and Montaigne.
FREN 434 THE SEVENTEENTH CENTURY (3) An in-depth study of representative authors of the French baroque and classical periods, such as Corneille, Descartes, Pascal, La Fontaine, Molière, Racine.
FREN 436 THE EIGHTEENTH CENTURY (3) An in-depth study of representative authors of the Age of Enlightenment, such as Diderot, Voltaire, Rousseau.
FREN 438 THE NINETEENTH CENTURY (3) An in-depth study of representative authors of French romanticism and realism, such as Chateaubriand, Hugo, Balzac, Flaubert.

FREN 439 FRENCH THEATRE (3) A chronological study of the development of the French theatre from the Middle Ages to the present.
FREN 440 THE TWENTIETH CENTURY (3) An in-depth study of representative auhors of this century, such as Proust, Gide, Sartre, Camus.
FREN 450 CLASSICAL FRENCH THEATRE: MYTH AND MORALS (3) An in-depth study of the French classical playwrights, Corneille, Molière and Racine. Taught in English; does not count toward major, minor or language certification. Fulfills the E/R\&S Focus elective. Prerequisite/Corequisite to PHIL 100 and THEO 111.
FREN 451 CONTEMPORARY FRENCH THEATRE (3) A study of twentieth-century French theatre's major movements and representative dramatic works.
FREN 452 FRENCH COMEDY (3) A chronological study of the development of French comedy from the medieval farce to the present.
FREN 453 FRENCH TRAGEDY (3) A chronological study of the development of French tragedy, melodrama and tragi-comedy from medieval Passion plays to the present.
FREN 461 FRENCH WOMEN WRITERS (3) A chronological study of representalive French women writers from the Middle Ages to the present.
FREN 495 DIRECTED STUDY: LANGUAGE (1-3) Independent study.
FREN 496 DIRECTED STUDY: CULTURE/CIVILIZATION (1-3) Independent study.
FREN 497 DIRECTED STUDY: LITERATURE (1-3) Independent study.
Graduate Course
FREN 700 GRADUATE RESEARCH: FRENCH (3) Research for M.A. Degree.

## German (GERM)

## Lower Division Courses

GERM 101 ELEMENTARY GERMAN I (3) An introduction to basic language skills through the acquisition of high-frequency vocabulary and the development of cultural awareness.
GERM 102 ELEMENTARY GERMAN II (3) The second semester elementary course with added emphasis on reading and speaking in the target language. Prerequisite:GERM 101 (or by placement test).
GERM 201 INTERMEDIATE GERMAN I (3) The first semester intermediate course with emphasis on the development of more creative, independent use of the target language. Prerequisite: GERM 102 (or by placement test).
GERM 202 INTERMEDIATE GERMAN II (3) A communicative-oriented course emphasizing reading and writing skills through the study of authentic materials dealing with the culture of the German speaking world. Prerequisite: GERM 201 (or by placement test).

## Upper Division Courses

All upper division courses are taught entirely in German! Prerequisite: GERM 202 or by placement test.

GERM 300 ADVANCED GERMAN I (3) The course offers advanced grammar study through active reading and discussion of authentic, everyday German texts.
GERM 301 ADVANCED GERMAN II (3) A communicative-oriented course with parlicular emphasis on the fine details of "educated German." Authentic texts from Der Spiegel and other news-magazines and newspapers and authentic German newscasts are examined in preparation for the international German proficiency exam administered by the Goethe Institute, the "Zertifikat Deutsch als Fremdsprache."
GERM 302 GERMAN CONVERSATION (3) A course designed for the development of speaking and listening skills through active participation by students. Discussions and activities are based on contemporary issues.

GERM 303 GERMANCOMPOSITION (3) The goal of this course is the development of both formal and informal writing skills within a cultural or literary framework. Types of writing include journal, letter, summary and analytical.
GERM 315 BUSINESS GERMAN (3) German business etiquette and business practice as well as the language of German business are practiced through discussions of texts from German business magazines and authentic business letters as well as recreations of real life business situations. This course is a preparation for the international German Business Exam.
GERM 316 ADVANCED BUSINESS GERMAN (3) Advanced Business German is a continuation of GERM 315: Business German. The emphasis is on intercultural conduct in business situations, the vocabulary of German business and economics, advanced grammar review, and ultimately the preparation for the international Business German examination "Prufung Wirtschaftsdeutsch" (PWD) which is usually administered in April of each year. The course offers an in-depth exposure to the spoken and written language of the German-speaking business world: formalities and conventions of business correspondence, 'Lebenslauf,' business in the media, conference terms and codes of behavior, abbreviation usage in the corporate world, documents relating to forms of enterprises and their financing, taxes, reports on the economics of German-speaking countries, and simulations of business situations.
GERM 320 STYLISTICS AND ADVANCED READING (3) To sharpen both the grammar and the written/oral communication skills of the participants through reading and discussing diverse German texts from Spiegel, FAZ, Profil is the goal. Particular emphasis will be given to written analysis.
GERM 340 GERMAN HIS'ORY AND CIVILIZATION (3) This overview of the history and culture of the German speaking worldoffers an introduction to the sociopolitical, economic and philosophical issues from 800 A.D. to the present. Its purpose is to advance oral and written proficiency and to deepen the knowledge of Central European history.
GERM 350 GERMAN CULTURE I (3) The historical, cultural, socioeconomic, political and philosophical background of the German speaking world are explored to help understand events leading up to 1933. German contributions to world culture in literature, att, music, science, and other fields are analyzed.
GERM 351 GERMAN CULTURE II (3) The tremendous changes that the German speaking countries underwent since 1933 are examined through the medium of contemporary political rhetoric (and propaganda), documentaries, editorials, cartoons, cabaret songs.
GERM 399 SENIOR PROJECT (1) Research for senior project.
GERM 410 THE GERMAN FAIRY TALE (3) An in-depth study of the concerns and impact of Grimm's Fairy Tales on the contemporary and the present-day reader that also presents modernized versions as well as a comparison to the American versions of the Grimm Tales.
GERM 420 INTRODUCTION TO GERMAN LITERATURE I (3) A chronological survey of Germanic literature from its Medieval beginnings (Hildebrandslied) to the highlights of the Romantic period (Taugenichts). Presentation based on genres and movements.
GERM 421 INTRODUCTION TO GERMAN LITERATURE II (3) A chronological study of Germanic literature from the highlights of the Classical period (Goethe, Schiller) to the present.
GERM 430 THE GERMAN SHORT STORY (3) Social, political, cultural and economic issues of contemporary Germany are discussed as presented in the postwar short stories of Borchert, Böll, Kaschnitz, Langässer, Siegfried Lenz, Bichsel.
GERM 435 THE CLASSICAL PERIOD (3) "An introduction to the 'greats' of German literature (Goethe, Schiller, Kleist) and their contemporaries in other Germanic countries with particular emphasis on the socio-political issues reflected in their works.

GERM 440 CONTEMPORARY GERMAN LITERATURE (3) Various forms of literature from poetry to the radio and television play are used to explore commonalities/ differences in the works of Grass, Böll, Johnson, Eich, Walser, Bernhard, Hildescheimer, Seghers and Frisch.
GERM 441 GERMAN WOMEN WRITERS OF THE 20TH CENTURY (3) A chronological study of representative Germanic women writers from the Middle Ages to the presen with special emphasis on the literature of the former GDR women writers vs. those of the former FRG ('The Third Way').
GERM 442 MAENNERLITERATUR - FRAUENLITERATUR (3) The literature of men and women writers is traced through the ages and their literary styles and modes are compared.
GERM 444 THE GERMAN SPEAKING WORLD AS SHOWN IN THE LITERATURE FROM 1945-1995 (3) The breathtaking events of the last fifty years are explored through historical texts, newspaper and magazine articles as well as contemporary prose, drama, poetry and radio play.
GERM 454 EAST GERMAN WRITERS (3) Novels, stories, poems and songs of 'East German Wriers' reflecting the 'East German' reality are used to examine the clash of 'socialist realism' with communist reality and censorship.
GERM 460 GERMAN LITERATURE IN FILM (3) Introduces a series of contemporary German films, all of which are based on German literary masterpieces, and seeks to compare and contrast the literary works and their film adaptations. Taught in German.
GERM 465 CULTURE AS REFLECTED IN DRAMA (3) On the basis of discussing German dramas, the periods they reflect are discussed.
GERM 468 CULTURAL REFLECTIONS IN LITERATURE (3) Poems, novellas, novels and short stories are examined as genres and how they deal with the sociopolitical issues of their time.
GERM 470 THE ROMANTIC PERIOD (3) An in-depth study of the cultural, historical, political andeconomic background of this period, which was romantic in name only, is provided as a basis for understanding the literature of the only literary period to originate on German soil.
GERM 494 SELECTED READINGS (3) A course created specifically for the special needs of a particular student.
GERM 495 DIRECTED STUDY: LANGUAGE (1-3) Independent study.
GERM 496 DIRECTED STUDY: CULTURE/CIVILIZATION (1-3) Independent study.
GERM 497 DIRECTED STUDY: LITERATURE (1-3) Independent study.

## Graduate Course

GERM 616 ADVANCED BUSINESS GERMAN (3) Advanced Business German is a continuation of GERM 315: Business German. The emphasis is on intercultural conduct in business situations, the vocabulary of German business and economics, advanced grammar review, and ultimately the preparation for the international Business German examination "Prufung Wirtschaftsdeutsch" (PWD) which is usually administered in April of each year. The course offers an in-depth exposure to the spoken and written language of the German-speaking business world: formalities and conventions of business correspondence, 'Lebenslauf,' business in the media, conference terms and codes of behavior, abbreviation usage in the corporate world, documents relating to forms of enterprises and their financing. taxes, reports on the economics of German-speaking countries, and simulations of business situations.
GERM 700 GRADUATE RESEARCH: GERMAN (3) Research for the M.A. Degree.

## Greek (GREK)

## Lower Division Courses

GREK 101 ELEMENTARY GREEK I (3) One semester. The ancient Greek language. Syntax, vocabulary, and morphology. The skills necessary to read ancient Greek.
GREK 102 ELEMENTARY GREEK II (3) One semester. A continuation of GREK 101.
GREK 162 EURIPIDES: MEDEA (3) A first author course, reading the play in detail and examining the issues it raises.
GREK 172 PLATO: THE APOLOGY (3) The Apology and other selections.

## Upper Division Courses

GREK 201 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.
GREK 206 HISTORY OF ANCIENT GREECE (3) An intensive introduction to the history of Greece from the prehistoric period to the Hellenistic Age, relying upon a reading of primary sources.
GREK 241 KOINE GREEK I (3) (THEO 241) Readings from the New Testament and Septuagint. Prerequisites: GREK 101 and GREK 102 or the equivalent.
GREK 242 KOINE GREEK II (3) A continuation of GREK 241. Readings may also include non-scriptural writings.
GREK 260 SOPHOCLES (3) The Oedipus Tyrannus or Antigone.
GREK 262 EURIPIDES (3). A selection of readings from several plays.
GREK 331 THUCYDIDES (3). A critical reading of selections from the Histories.
GREK 351 HOMER: ILIAD (3) A study of the epic.
GREK 352 HOMER: ODYSSEY (3). A study of the epic.
GREK 363 AESCHYLUS (3). A selection of readings from several plays.
GREK 372 PLATO: THE REPUBLIC (3). A critical reading of selections from the Republic.
GREK 388 HISTORY OF GREEK LITERATURE (3). A final Greek course meant to be a summation and synthesis of the achievement of Greek literature.
GREK 397 SPECIAL STUDY: PROSE (Credit and content by arrangement.)
GREK 398 SPECIAL STUDY: POETRY (Credit and content by arrangement.)
GREK 399 SENIOR COMPREHENSIVE REVIEW (Credit and content by arrangement.)

# Health Services Administration (HESA) 

## Graduate Courses

HESA 501 HEALTH CARE FINANCIAL ACCOUNTING (3) Presents the basic concepls of accounting at an intensive level for those students who lack extensive background in this area. (pass/fail grading)
HESA 522 MARKETING IN HEALTH CARE ORGANIZATIONS (3) Examines the application of marketing concepts, functions, and policies to health services. Prerequisites: HESA 612, HESA 614, and HESA 615.
HESA 525 AGING IN OUR SOCIETY (3) Examines the areas of biology, sociology, and psychology of aging with an emphasis on the application of research methodologies to the field of aging.
HESA 530 REIMBURSEMENT SYSTEMS (1) Studies the basic reimbursement principles of governmental third party payers, the regulatory environment for the delivery of health services, and the technical computations of case mix based payments. Prerequisite: HESA 501. (Dual-degree students only.)
HESA 535 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. Prerequisite HESA 525.

HESA 536 CORPORATE ETHICAL ISSUES IN HEALTH CARE (3) Develops systematic methods of analyzing the ethical implications of corporate policies, practices and strategic decisions as they relate to internal and external stakeholders as well as to society itself. Prerequisite: HESA 644.
HESA 538 AMBULATORY AND MANAGED CARE SYSTEMS (3) Covers fundamental knowledge and skills regarding interacting with and operating managed care organizations. Organized structures commonly encountered are described. Risk assessment and application of related concepts are discussed and applied. Projects are completed using problems from both the health care providers and insurers related to managed care. Prerequisites: HESA 614 and HESA 615.
HESA 541 ADVANCED QUALITY IMPROVEMENT METHODS (3) Applies quality improvement practices including total quality management and quality function deployment lo service organizations at an advanced level. Prerequisite: HESA621.
HESA 542 POLITICS IN HEALTH CARE (1) Applies the concepts and dynamics of power, authority, and influence to legislative and lobbying processes.
HESA 545 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 and an aging population. Prercquisite: HESA 525.
HESA 601 EXECUTIVE DEVELOPMENT I ( 0 ) Focuses on the development and enhancement of the personal and interpersonal skills required to assume managerial leadership positions within health care organizations.
HESA 602 EXECUTIVE DEVELOPMENT II (0) Continuation of HESA 601.
HESA 603 EXECUTIVE DEVELOPMENT III (0) Continuation of HESA 602.
HESA 604 EXECUTIVE DEVELOPMENT IV (0) Continuation of HESA 603.
HESA 610 CORPORATE FINANCE FOR HEALTH CARE ORGANIZATIONS (3) Examines basic concepts and techniques used by health care organizations to analyze revenue flows, acquire through debt and equity, and manage the capital budgeting function. Prerequisite: HESA 501 or its equivalent.
HESA 611 MANAGERIAL CONCEPTS IN HEALTH CARE ORGANIZATIONS (3) Discusses the underlying principles and behavioral theory as applied to the development of managerial and team work skills for health services administrators.
HESA 612 HEALTH ECONOMICS (3) Examines the application of economic principles to the allocation of scarce resources in health care; the use of economic theory to understand problems of organization, delivery, and financing of health services; and the choices available to society regarding these issues.

HESA 614 COMMUNITY HEALTH AND MEDICAL CARE ANALYSIS (3) Provides the fundamental knowledge and skills useful to health services managers related to community health and epidemiologic analyses. Approaches to technology assessment are covered and students are introduced to the application of epidemiologic literature in health services management through an applied project. Prerequisite: HESA 616.
HESA 615 HEALTH CARE SYSTEMS (3) Analyzes the U.S health care system, focusing on delivery settings and the effects of biological, behavioral, societal, organizational, and environmental factors.
HESA 616 CLINICAL PROCESSES FOR HEALTH CARE ADMINISTRATORS (3) Introduces the basic concepts and issues of clinical practice, develops an understanding of terminology and disease processes, increases an awareness of underlying clinical issues and the types and roles of clinicians, and provides an understanding of the individual issues of patients and their caretakers. Prerequisite: Consent of instructor.
HESA 620 MANAGEMENT ACCOUNTING FOR HEALTH CARE (3) Examines the basic criteria for specifying accounting measurements to supportmanagers' decision processes. Introduces techniques for costing sales of health care services, delivery activities, and alternative organization structures as well as operating budgets and accounting control systems. Focuses on the relationships of costs to revenues in competitive, integrated care delivery systems. Prerequisites: HESA 615 (may be taken concurrently)
HESA 621 CONTINUOUS QUALITY IMPROVEMENT TECHNIQUES IN HEALTH CARE MANAGEMENT (3) Introduces the theoretical application of statistical quality management in health care as well as the practical application of quality improvement methods in health care settings. Prerequisites: HESA 611 and HESA 631.

HESA 622 THEORY IN PLANNING AND STRATEGIC MANAGEMENT (3) Discusses the 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.
HESA 625 HEALTH CARE ORGANIZATIONS (3) Examines the operations of health care organizations to enable the administrator to organize and coordinate the efforts of various services to achieve cost-effective patient care.
HESA 630 FINANCIAL MANAGEMENT OF HEALTH CARE ORGANIZATIONS (3) Emphasizes, through a case approach based on current literature, the current environment and management approaches to financial issues such as selecting among alternative payment systems, leasing and out-sourcing, and merging. Prerequisites: HESA 610 and HESA 620.
HESA 631 QUANTITATIVE METHODS FOR HEALTH CARE MANAGEMENT (3) Discusses the nature and application of various quantitative methods for analyzing and improving organizational systems and processes within the health care field.
HESA 632 OPERATIONS RESEARCH IN HEALTH CARE MANAGEMENT (3) Discusses the techniques of linear programming, inventory control, queuing analysis, PERT/CPM, simulation, and statistical forecasting and their application to health services management. Prerequisite: HESA 631.
HESA 642 HEALTH CARE LEGAL ASPECTS (3) Describes the legal climate within which the health care institution operates with an emphasis on the legal concepts that influence the activities of health care administrators. Prerequisite: HESA 615.
HESA 644 ETHICAL ISSUES IN HEALTH CARE (3) Introduces the student to dominant ethical theories and applicable principles and to the current major clinical and corporate issues in health care. Prerequisites: HESA 612 and HESA 615.
HESA 649 CASES IN STRATEGIC MANAGEMENT (3) Integrates management issues in ambulatory care, long-term care, inpatient care, and mental health settings with application of the concepts and techniques of organizational behavior, planning.
finance, and control. Prerequisites HESA 610, HESA 614, HESA 615, and HESA 622.
HESA 650 HEALTH POLICY AND POLICY ANALYSIS (3) Provides an overview of health policy in the United States and introduces both qualitative and quantitative methods for analyzing health policy with altention given to the political and economic perspectives on health policy questions. Prerequisites: HESA 612 and HESA 615.
HESA 700 ISSUES IN HEALTH CARE (2-4) Examines current issues in the organization, delivery, financing, and management of health care services.
HESA 710 INDEPENDENT STUDY IN HEALTH ADMINISTRATION I (1-3) Permits the student to individually investigate current issues related to the management of health care organizations under the guidance of a faculty member.
HESA 711 INDEPENDENT STUDY IN HEALTH ADMINISTRATION II (1-3) Continuation of HESA 710.

## Administrative Residency/Practicum

HESA 720 INSTITUTIONAL AND COMMUNITY ANALYSIS (2) Provides the student with firsthand, in-depth skills in analyzing the internal operations of a health care institution, including governance, departmental structure, planning and financial management, and human resources development, as well as the external environments impacting the organization.
HESA 730 PRACTICUM IN EXECUTIVE DEVELOPMENT I (2) Provides students with the opportunity toobserve executive role models and to assess and develop their own management philosophies.
HESA 731 PRACTICUM IN EXECUTIVE DEVELOPMENT II(1) Continuation of HESA 730.
HESA 750 MASTER'S PROJECT ( 2 -3) Requires students to conduct an individual integrative project that addresses an aspect important to both the student and the preceptor through either hypothesis testing, management studies, competency demonstrations, or case studies analyzing organizational policy or program implementation processes.
HESA 751 MASTER'S PROJECT II (2-3) Continuation of HESA 750.
HESA 752 MASTER'S PROJECT III (2-3) Continuation of HESA 751.
HESA 753 MASTER'S PROJECT IV (2-3) Continuation of HESA 752.

## History (HIST)

## Lower Division Courses

HIST 105
HIST 106
HIST 133

HIST 134

HIST 143

HIST 144

HIST 154

HIST 210
HIST 245
HIST 301

HIST 302

HIST 303
HIST 304
HIST 306
HIST 309
HIST 313 phical, social, and economic topics.
UNITED STATES SINCE 1932 (3) Beginning with an analysis of the Great Depression and the federal response in the New Deal, this course traces the development of domestic and foreign policy in terms of New Deal liberalism and its challengers.
HIST 317 RELIGION IN AMERICAN LIFE (3) Surveys American religious life from Puritanism to Televangelism, exploring such topics as revivalism as a distinctly American mode of religious expression and the relationship between religion and society.
U.S. ECONOMIC HISTORY (3) A brief overview of the historical development of the American economy, examines in depth such topics as industrialization and its discontents, the rise and demise of slave labor, and the economic history of women. BLACK AMERICA SINCE 1865 (3) (ENGL 358) Beginning with a discussion of the transition from slavery to freedom after the Civil War, this course examines the urbanization of black America, the development of black institutions and political power, the civil rights and black power movements, and the role of race in the contemporary world.
THE HISPANIC MINORITY IN U.S. HISTORY (3) Covers the story of Hispanics in the U.S.A. from the days of the "Spanish Borderlands" through Guadalupe/Hidalgo (1848) to the Cubans, Puerto Ricans and Chicanos of the 1990s.

HIST 340 HISTORY OF MEXICO (3) An overview of the history of Mexico from prehistoric times to the present - stressing the years from Independence to the 1990's.
HIST 341 ARGENTINA, BRAZIL, CHILE, URUGUAY (3) Covers the history of the Southern Cone countries - with an emphasis on the late 19th and 20th centuries.
HIST 342 THE CARIBBEAN AND CENTRAL AMERICA (3) Provides an historical overview from the days of the Caribes and Arawacs and Mayas - through the age of the "Banana Republics" to the present.
HIST 343 GRAN COLOMBIA (3) Traces the 19th and 20th century history of those countries that remain of the great dream of South American unity of Simon Bolivar Colombia, Venezuela, Ecuador.
HIST 344 CONTEMPORARY LATIN AMERICA (3) Emphasizes late 19th and 20th century realities in Latin American history-Dependency Economics, dictatorships, debts, the role of the U.S.A.
HIST 346
JAPAN SINCE 1868 (3) Includes the fall of the Tokugawas, the Meiji period, and the Post World War II boom era.
HIST 347 MODERN CHINA (3) Inclucles the decline of the Manchus, the nationalist period, and the Communist era.
HIST 358 RENAISSANCE EUROPE (3) Examination of social, economic, political and intellectual issues in Europe (1300-1555): family structure, the transition from feudalism to capitalism, republican and courtly ideals, the rise of civic humanism in Italy and the dispersion of humanism north of the Alps.
HIST 359 REFORMATION EUROPE (3) A study of the interaction between religious, social and political reforms with an emphasis on the ideas of Luther, Zwinglie, Calvin, and the peasants.
HIST 360

HIST 366
HIST 367
HIST 368

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EUROPE 1648-1815 (3) Social, political, and intellectual developments in the period from absolutism to enlightened monarchy. Emphasis will be placed on the evalution of state institutions and bureaucracies.
TUDOR ENGLAND (3) A survey of the political, intellectual, and social history of England from 1485-1603.
STUART ENGLAND (3) A survey of the political, intellectual, social and economic history of England from 1608-1688.
THE ENGLISH REFORMATION (3) An examination of the historiography of the English Reformation and of the political, social, and religious backgrounds course of the reformation in England from the late middle ages through the reign of Elizabeth 1 .

HIST 370
HIST 372 VICTORIAN AND EDWARDIAN ENGLAND (3) Survey of English history 1830s - World War One.
HIST 373 ENGLAND SINCE 1914 (3) Survey of English history and England's role in world affairs with major emphasis on 1914-1945.
HIST 375 MODERN IRELAND (3) Survey of Irish history with major emphasis on the period after 1840; includes the history of Northern Ireland.
HIST 377
MODERN FRANCE (3) Survey of French history and culture since 1789.
HIST 378
HIST 379
HIST 383
FRANCE: REVOLUTION (3) French history, 1789-1815.
FRANCE: THE THIRD REPUBLIC (3) French history, 1870-1945.
NAZI GERMANY (3) German history, 1920s - 1945.
HIST 386 RUSSIA 1801-1917(3) A general survey of the late imperial period from the reign of Alexander I to the 1917 Revolution.
HIST 387 USSR SINCE 1917 (3) A survey of the Soviet period emphasizing the 1917 Revolution and the Stalin era to better understand contemporary events.
HIST 389 WOMEN IN EUROPEAN HISTORY (3) A survey from about 1700 to the present.
HIST 392 TERRORISM IN THE WESTERN WORLD (3) Historical analysis of terrorism, especially in Europe and the United States, with emphasis on the period from the mid-19th century to the present.
HIST 402 SEMINAR: RELIGION IN AMERICAN LIFE (3) Examines the relationship between religion and culture in a specific era of American life (e.g., colonial America, Jacksonian America, the Gilded Age). Fulfills the E/R\&S Focus elective. Prerequisite/Corequisite to PHIL 100 and THEO 111.
HIST 405 SEMINAR: AMERICAN REVOLUTION (3) A study of the causes and issues which contributed to the coming and character of the American Revolution.
HIST 410 SEMINAR: URBAN AMERICA (3) Examines the impact of urbanization on American thought, culture and society between the Civil War and the Great Depression.
HIST 412 SEMINAR: SHAPING OF AMERICAN CHARACTER (3) By focusing on cultural, social, and intellectual matters, this course studies various interpretations of American character.
HIST 428
HIST 431

HIST 432

HIST 441 SEMINAR: TUDOR ENGLAND (3) An examination of selected topics in English history 1485-1603.
HIST 455 SEMINAR: POLITICS AND VIOLENCE: NORTH IRELAND (3) Reading and research, 20th century Ireland.
HIST 465 SEMINAR: MODERN RUSSIA (3) Selected topics in the history of late Imperial Russia.
HIST 466 SEMINAR: THE STALIN ERA (3) Selected topics in the era of Josef Stalin from the pre-revolution to his death.
HIST 468 SEMINAR: EUROPEAN SOCIAL HISTORY (3) Reading and research on 19 th and 20th century European social and family issues.
HIST 470 SEMINAR: WAR, CULTURE AND SOCIETY: 20TH CENTURY (3) Reading and research in the nonmilitary aspects of war. Fulfills the E/R\&S Focus elective. Prerequisite/Corequisite to PHIL 100 and THEO 111.

## Graduate Courses

HIST 601 SEMINAR: COLONIAL AMERICA (3) A detailed study of a particular topic in colonial American history, incorporating common readings and individual projects. Prerequisite: HIST 301 or its equivalent, or permission of instructor.
HIST 602 SEMINAR: THE AMERICAN REVOLUTION (3) A study of both the causes which contributed to the coming of the American Revolution and the historiography on the Revolution.
HIST 603 SEMINAR: THE EARLY NATIONAL PERIOD (3) A study of both the leading issues in the formative years of the Republic and the historiography on the period.
HIST 604 SEMINAR: AGE OF JACKSON (3) A detailed study of a particular topic in Jacksonian America (1812-1848), incorporating common readings and individual projects. Prerequisite: HIST 304 or its equivalent, or permission of instructor.
HIST 629 SEMINAR: URBAN AMERICA (3) An examination of selected topics on American urbanization.
HIST 666 SEMINAR:TUDOR ENGLAND (3) An examination of selected topics in English history 1485-1603.
HIST 667 SEMINAR: STUART ENGLAND (3) An examination of selected topics in English history 1603-1668.
HIST 670 SEMINAR: MODERN ENGLAND AND IRELAND (3) Reading and research on 19th and 20th century topics.
HIST 672 SEMINAR: MODERN BRITAIN (3) Reading and research on 19th and 20th century topics.
HIST 675 SEMINAR: MODERN IRELAND (3) Reading and research on 19th and 20th century topics.
HIST 677 SEMINAR: MODERN FRANCE (3) Reading and research on 19th and 20th century France.
HIST 690 SEMINAR: WAR, CULTURE AND SOCIETY SINCE 1850 (3) Reading and research on nonmilitary topics, European and American.

# Human Resources (HRES) 

| Undergraduate Courses |  |
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| HRES 200 | HUMAN RESOURCES IN A DIVERSE SOCIETY (3) Issues examined are: <br> workplace laws, recruiting, hiring, setting wages, evaluating employees, benefits, <br> discipline, labor relations, and international concerns. Because it also fulfills the |
|  | Cultural Diversity Elective requirement, it addresses stereotyping, discrimination |
| and prejudices as they relate to work issues. |  |

HRES 301 HUMAN RESOURCES (3) A survey of workforce issues including labor force trends, diversity, compensation, income distribution, productivity, labor unions and human resources law/public policy.
HRES 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.
HRES 303 CO-OP EDUCATION/HUMAN RESOURCES: JUNIOR LEVEL (3-6) An elective cooperative experience where students earn academic credit while performing approved human resources-related work experience. Prerequisite: MGMT 301, 55 credit hours completed, 2.75 gpa, department approval required.
HRES 305 DISPUTE SETTLEMENT (3) Analysis of the settlement of disputes in business; emphasis on contract administration and the arbitration process. Casework.
HRES 310 CURRENT HUMAN RESOURCES ISSUES (3) Analysis of current human resource issues facing workers and their managers. Topics will vary to keep course up-to-date.
HRES 313 HUMAN RESOURCES LAW (3) Analysis of the law governing the relationship between workers and their employer; emphasis on laws treating labor-management relations, working conditions, discrimination, and individual employee rights.
HRES 321 WORKFORCE DIVERSITY (3) Impact of demographic diversity on organizations. Examination of the problem of discrimination in U.S. labor markets, with primary attention to race and sex discrimination.
HRES 330 INDUSTRIAL/ORGANIZATIONALPSYCHOLOGY(3)(MGMT321,PSYC 321) Application of psychological principles and procedures to a variety of organizations. Research, measurement and human behavior are emphasized.
HRES 340 WORKFORCE DEVELOPMENT PROGRAMS AND POLICIES (3) Analysis of programs and policies aimed at fully employing the workforce, especially the economically disadvantaged, minorities, women, and dislocated workers; including remediation, job training, and government employment programs.
HRES 345 COMPENSATION THEORY AND PRACTICE (3) An examination of the logic and practices involved in current programs for compensating employees.
HRES 401 MORALITY AND EMPLOYMENT ISSUES (3) Uses leading philosophic concepts and normative principles to apply analytic and descriptive tools to critical workplace issues. Prerequisite: PHIL 100 and THEO 111 , one must be prerequisite, the other either prerequisite or corequisite. Fulfills the E/R\&S Focus elective.
HRES 403
CO-OP EDUCATION/HUMAN RESOURCES: SENIOR LEVEL (3-6) An elective cooperative experience where students earn academic credit while performing approved human resources-related work experience. Prerequisite: MGMT 301, 55 credit hours completed, 2.75 gpa, departmental approval required.
HRES 495 CURRENT HUMAN RESOURCES PROBLEMS (3) Analysis of current human resource issues facing workers and their managers. Topics will vary to keep course current.
HRES 499 TUTORIAL: HUMAN RESOURCES (2-3) Content to be determined according to the needs of the student. Approval of program director and dean required.

## Graduate Course

HRES 901 INTRODUCTION TO HUMAN RESOURCES (2) Key processes of human resource management including selection. employee development, performance management, reward systems, and employee relations. Prerequisites: All Business Skills and Foundation Skills courses.
HRES 903 WORKFORCE DIVERSITY ISSUES (3) Examines issues of demographic diversity in the work force, such as employment discrimination, work/family, affirmative action, sexual harassment, "glass ceilings" and immigration/globalization. Evaluates the impact of diversity on organizations and their employees.
HRES 911 DISPUTE RESOLUTION AND ARBITRATION (3) Analyzes the settlement of disputes in business without resorting to the legal system. Emphasis on employeremployee disputes in both union and nonunion contexts. Casework.
HRES 912 COLLECTIVE BARGAINING SEMINAR (3) An examination of contract negotiations as a tool for handling problems and issues in labor-management relations; alternatives to adversarial bargaining. Casework involved.
HRES 913 HUMAN RESOURCES LAW (3) Analysis of current law dealing with individual employee rights; health and safety; labor-management relations; and discrimination based on race, sex, age and handicap. Casework.
HRES 915 PERSONNEL SELECTION AND PLACEMENT (3) (PSYC 522) Principles underlying sound practices in persomnel selection and placement. Job analysis, development and use of selection procedures, fair employment practices.
HRES 917 PERSONNEL TRAINING AND DEVELOPMENT (3) An examination of the field of training and developing the workforce as it occurs in industry and government.
HRES 918 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 economically disadvantaged.
HRES 919 COMPENSATION ISSUES (3) An examination of contemporary problems and issues involved in programs for compensating employees.
HRES 995 INDIVIDUAL READINGS AND RESEARCH (2-3) Open to especially qualified students with the consent of the program director and dean.

## Humanities (HUMN)

## Graduate Courses

HUMN 501 THE WESTERN INTELLECTUAL TRADITION I (3) An exploration of the changing character of the hero in history, literature and art from Homeric Greece to the modern era.
HUMN 502 THE WESTERN INTELLECTUAL TRADITION II (3) The hero in history, literature and art in the 19th and 20th centuries.
HUMN 503 THE WESTERN INTELLECTUAL TRADITION III (3) An exploration of utopias and related visions of the ideal from the 16th to the 20th century.
HUMN 504 THE WESTERN INTELLECTUALTRADITIONIV (3) A bistory of the future: visions (utopian and dystopian) and projections of the future in the 19th and 20th centuries.
HUMN 505 THE WESTERN INTELLECTUAL TRADITION V (3) Memory, representation, and contested views of the past: an exploration of American cultural, historical, and political issues.
HUMN 506 THE WESTERN INTELLECTUAL TRADITION VI (3) Memory, representation, and contested views of the past: an exploration of modern European cultural, historical, and political issues.
HUMN 511 LANGUAGE OF THE HUMANITIES (3) (ENGL 601) Critical study of topicdirected, audience-directed, and author-directed discourse. Intensive practice in writing.

# Information Systems (INFO) 

|  | Undergraduate Courses |
| :---: | :---: |
| 1NFO 100 | BUSINESS COMPUTER APPLICATIONS (1) A lab-based computer concepts course which introduces current productivity tools for business applications. (Not a requirement of business students entering in Fall 1996. Take INFO 301 instead.) |
| INFO 300 | MANAGEMENT OF INFORMATION TECHNOLOGY (2) Introduction to computer-based information systems with an emphasis on the management of modern information technologies used to support different organizational operations. Prerequisite: INFO 100. (NOTE: only for those who completed INFO 100.) |
| INFO 301 | MANAGING INFORMATION TECHNOLOGY (3) Introduction to computerbased information systems with an emphasis on the management of modern information technologies used to support different organizational operations. This course also introduces basic spreadsheet and database software. (This course is designed for business students entering in Fall 1996. Take this course in place of [NFO 100 and INFO 300.) Prerequisite: Basic knowledge of microcomputers. See your advisor if you are not familiar with microcomputers. |

[NFO 303

INFO 350

INFO 357 DATA COMMUNICATIONS AND NETWORKING (3) Data communication fundamentals for networking and distributed processing. Communication protocols, SNA, DECNET, and local area networks. Prerequisite: INFO 300 or 301.
INFO 358
[NFO 359

INFO 362

INFO 364

INFO 367

INFO 372

INFO 403

INFO 450 DATA MODELING AND MANAGEMENT (3) The study of the theory of modeling enterprise activities in terms of their data. Data bases are implemented emphasizing the relational model. Prerequisite: INFO 300 or 301 .
HARDWARE AND SOFTWARE OVERVIEW (3) Analysis of the architecture of micro computers, workstations, and small mid-range computers, with emphasis on comparative operating systems and environments, along with an introduction to applications for the small computer environment. Prerequisite: INFO 300 or 301.
PROGRAMMING FOR MODERN BUSINESS APPLICATIONS (3) Introduce students who have a basic understanding of computer concepts to programming languages currently being used by the business community. Contact the department for information on specific languages currently covered. Prerequisite: INFO 300 or 301.
APPLICATIONS PROGRAMMING IN COBOL (3) Structured COBOL computer programming language with business applications. The emphasis is on writing professional programs. Prerequisite: INFO 362 or equivalent.
APPLICATIONS PROGRAMMING IN "C" (3) Structured programming techniques using the "C" programming language for business applications. Prerequisite: INFO 362 or equivalent.
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: INFO 300 or 301 .
CO.OP EDUCATION/INFORMATION SYSTEMS: SENIOR LEVEL (3-6) An elective cooperative experience where students earn academic credit while performing approved information systems-related work experience. Prerequisite: MGMT 301, 55 credit hours completed, 2.75 gpa , departmental approval required. SYSTEMS ANAL YSIS AND DESIGN (3) Structured tools and lechniques for the development of computerized information systems with emphasis on the process involved in the analysis anddesign of the development process using a structured life
cycle approach. Special emphasis will be placed on team development and on quality control for the development of effective and efficient information systems. Corequisite: INFO 358. Prerequisite: FINC 300, MGMT 300, MKTG 300, or permission of instructor.
INFO 490 CONTEMPORARY ISSUES IN INFORMATION SYSTEMS (3) Current issues, developments and future trends in the advancement of information systems in business. Prerequisites: Junior/Senior status or permission of instructor.
INFO 495 SYSTEMS DEVELOPMENT PROJECT (3) This capstone course is a direct follow-up to INFO 450 in which student teams will apply skills and techniques from other INFO and business courses for the purpose of implementing and delivering a computerized business information system. Prerequisite: INFO 450.
INFO 499 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.

## Graduate Courses

INFO 901 INFORMATION SYSTEMS (1.5) A study of computer information systems and information technology applied to businesses for purposes of increasing productivity and competitive advantage. Prerequisite: All business skill courses and required foundation skill courses.
INFO 904 CONCEPTS OF MANAGERIAL COMPUTER TECHNOLOGY (2) Basic introduction to computer-based information system technologies. Foundation course required for some INFO electives.
INFO 909 MANAGERIAL ASPECTS OF MIS (2) Planning and evaluating Management Information Systems (MIS), the organizing aspects of MIS departments, the motivation of MIS personnel, the controlling of daily MIS activities. Student project required. Prerequisite: INFO 904 or equivalent.
INFO 940 ANALYSIS AND DESIGN OF MIS (2) Analysis and design of information systems for management with emphasis on current MIS environments, on-line real time systems, and distributed processing systems. May be taken alone or with INFO 941. Prerequisite: INFO 904 or equivalent.

INFO 941 ANALYSIS AND DESIGN OF MIS PROJECT (1) Project to accompany INFO 940. Corequisite: INFO 940.

INFO 943 INFORMATION TECHNOLOGY AND PROCESS IMPROVEMENT (3) Addresses quality and productivity as they relate to the Information Systems function. Quality and productivity are treated from a corporate, technological and IS management perspective.
INFO 945 EXECUTIVE INFORMATION SYSTEMS (3) Study of the executive approach to information systems where the focus in on the utilization of summary information to assist in strategic and tactical planning.
INFO 949 HARDWARE AND SOFTWARE OVERVIEW (3) Analysis of the architecture of microcomputers, workstations, and small to mid-range computers, with emphasis on applications for the small computer environment. Prerequisite: INFO 904 or equivalent.
INFO 951 DECISION SUPPORT SYSTEMS (3) Emphasis on user computer interaction in a structured or semi-structured environment where the user has complete control throughout the problem-solving process. Group Decision Support Systems (GDSS) are also examined.
INFO 960 WORLD WIDE WEB FUNDAMENTALS (2) Tools and techniques for designing and developing quality Web pages with a concentration on the implementation of efficient and effective Web sites for personal use, small businesses, corporate offices, and entrepreneurial ventures. Corequisite: INFO 961
INFO 961 WORLD WIDE WEB PROJECT (1) Corequisite: INFO 960.
INFO 970 DATA COMMUNICATIONS AND NETWORKS (2) Digital transmission, software, error control, data link control, network architecture, LAN, distributed systems, and network design considerations are discussed. Prerequisite: INFO 904 or equivalent.

INFO 971 DATA COMMUNICATIONS AND NETWORK PROJECT (1) Project to accompany INFO 970. Corequisite: INFO 970.
INFO 972 EXPERTSYSTEMS (2) An introduction to artificial intelligence with emphasis on problem definition, knowledge extraction, and application development of knowledge based expert systems in a business environment. May be taken alone or with project. See INFO 973. Prerequisite: INFO 904 or equivalent.
INFO 973 EXPERTSYSTEMSPROJECT (1)Project toaccompany INFO 972. Corequisite: INFO 972.
INFO 974 DATABASE MANAGEMENT (3) A practitioner approach to the modeling and implementation of databases as models of enterprise activities which are implemented as self-describing integrated files. PC relational data base software will be used to implement a database model of the student's choice. Prerequisite: INFO 904 or equivalent.
INFO 995 TOPICS IN MIS INDIVIDUAL READINGS (1-3) New trends, concepts and issues of MIS are examined and related to business environments. Prerequisite: INFO 901.

## Japanese (JAPN)

## Lower Division Courses

JAPN 101 ELEMENTARY JAPANESE I (3) An introduction to basic language skills such as reading and writing hiragana, katakana, and about 30 kanjii. Emphasizes the acquisition of high-frequency vocabulary and practical conversation.
JAPN 102 ELEMENTARY JAPANESE II (3) The second semester elementary course which is a continuation of JAPN 101. Emphasizes listening and situational conversation. Prerequisite: JAPN 101 (unless waived).

## Upper Division Courses

JAPN 201 INTERMEDIATE JAPANESE I (3) The first semester intermediate course which is a continuation of JAPN 102 with a particular emphasis on the development of more creative use of the language and culture. Prerequisite: JAPN 102 (unless waived).
JAPN 202 INTERMEDIATE JAPANESE II (3) A communicative-oriented course integrating the skills of reading, writing, listening and speaking situational, functional Japanese through the study of authentic materials. The course includes a comprehensive grammar review. Prerequisite: JAPN 201 (unless waived).

## Latin (LATN)

## Lower Division Courses

 close detail, examining especially its literary excellence.

## Upper Division Courses

LATN 201 INTRODUCTION TOLATIN LITERATURE (3) For students who have had six hours of college level Latin, or its equivalent. Selected, short readings from Vergil with an emphasis on intensive grammar review.
LATN 202 SELECTED LATIN READINGS: PROSE (3) For students who have had six hours of college le vel Latin or its equivalent. Short readings, from various Latin prose authors and genres.
LATN 203 SELECTED LATIN READINGS: 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.
LATN 206 HISTORY OF ANCIENT ROME (3) An intensive introduction to the history of Rome from the early Republican period to the rise of Christianity, relying upon a reading of the primary sources.
LATN 211 LIVY (3). Acritical reading of selections from the Histories, the main source for the history of the Roman Republic.
LATN 214 LATIN PROSE STYLE (3). Intensive grammar instruction through composition into Latin from English.
LATN 221 CICERO: ORATIONS (3). A close reading of Cicero's Pro Milone, or other oratorical work.
LATN 231 HORACE: ODES and EPODES (3). Reading and study of the majority of the shorter poems.
LATN 251 VERGIL: AENEID (3). A comprehensive, critical, and in depth reading of the Aeneid.
LATN 261 ROMAN COMEDY (3). Selections from Plautus and Terence with a view to their influence on Renaissance and modern comedy.
LATN 308 CAESAR (3). Readings from the de Bello gallico and de Bello civili.
LATN 312 TACITUS: ANNALES (3). A critical reading of selections from the Annales, the main source for the history of the early Roman Empire.
LATN 319 CICERO: LETTERS (3). An examination of the society and history revealed through Cicero's private correspondence.
LATN 328 CICERO: ESSAYS (3). A critical reading of the importance of Cicero's contribution to the history of philosophy through his cssays.
LATN 331 HORACE: SATIRES and EPISTLES (3). Reading and study of Horace's longer poems, which wittily upbraid contemporary Roman society.
LATN 332 CATULLUS (3). Examination and explication of his poems.
LATN 356 ROMAN SATIRE (3). Translation and comparison of selections from the satirical works of Varro, Horace, Seneca, Persius, and Juvenal.
LATN 388 HISTORY OF LATIN LITERATURE (3). A final Latin course meant to be a summation and synthesis of the achievement of Latin literature.
LATN 391 LUCRETIUS (3). Detailed reading of selections from Lucretius's philosophical epic poem.
LATN 397 SPECIAL STUDY: PROSE (Credit and content by arrangement.)
LATN 398 SPECIAL STUDY: POETRY (Credit and content by arrangement.)
LATN 399 SENIOR COMPREHENSIVE REVIEW (Credit and content by arrangement.)

## Management (MGMT)


#### Abstract

Undergraduate Courses MGMT 201 QUALITY AND PRODUCTIVITY IN OPERATIONS (3) An introduction to quality and operations topics and management science techniques. Topics include goals of service and production operations, optimization, project scheduling, simple quality tools, inventory models, simulation, and waiting line models. Continual improvement of operations is stressed. Prerequisite: MATH 156 and INFO 301. MGMT 300 MANAGERIAL BEHAVIOR (3) Lectures, cases, and experiential exercises are used to introduce the management functions of planning, organizing, staffing, leading and controlling. MGMT 301 MANAGERIAL COMMUNICATIONS (2) Essentials of communicating effec-


 tively in business with accent on written and oral communication skills.MGMT 303 CO-OP EDUCATION/MANAGEMENT: JUNIOR LEVEL (3-6) An elective cooperative experience where students carn academic credit while performing approved management-related work experience. Prerequisite: MGMT 301, 55 credit hours completed, 2.75 gpa , department approval required.
MGMT 306 PRODUCTION MANAGEMENT (3) A study of decision making tools and techniques used to allocate organizational resources in the production of goods and services. Prerequisites: MGMT 201, 300.
MGMT 309 ORGANIZATION DESIGN AND DEVELOPMENT (3) Theory and design of organizational systems, organizational performance, culture and development. Prerequisite: MGMT 300.
MGMT 310 TEAM WORK AND TEAM BUILDING (3) Analysis of forces controlling group formulation and development in business and organizational work situations. Techniques for analyzing and productively managing informal groups. Prerequisite: MGMT 300.
MGMT 314 LEADERSHIP (3) An analysis of various theories and approaches to leadership emphasizing team building and situational leadership. The course includes skill development, experiential activities, theoretical constructs, and guest speakers who are leaders in a variety of settings. Prerequisite: MGMT 300.
MGMT 320 PERSONNEL ADMINISTRATION (3) (HRES 320) Covers a broad range of personnel management issues, using lectures, cases and applied projects. Prerequisites: MGMT 300, STAT 200.
MCMT 321 INDUSTRIAL/ORGANIZATIONAL PSYCHOLOGY (3) (HRES 330, PSYC 321) Psychological bases for organizational decisions from employment to the maintenance of motivation and job satisfaction of people. Research, measurement and practical application are emphasized. Prerequisite: MGMT 300.
MGMT 325 INTERNATIONAL MANAGEMENT (3) A framework for understanding human resource and cultural issues related to international management. Lectures and discussion group projects, and guest speaker visits. Prerequisites: ECON 300, MGMT 300.
MGMT 390 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 1990s and beyond. Prerequisite: MGMT 300.
MGMT 403 CO-OP EDUCATION/MANAGEMENT: SENIOR LEVEL (3-6) An elective cooperative experience where students carn academic credit while performing approved management-related work experience. Prerequisite: MGMT 301, 55 credit hours completed, 2.75 gpa, departmental approval required.
MGMT 410 QUALITY PLANNING AND IMPROVEMENT (3) A comparison of modern approaches to quality. In quality planning, product and process are developed to satisfy customers. In quality improvement, both organization-wide and process improvements are studied. Quality function deployment and management planning tools are used. Prerequisites: STAT 200, MGMT 201.

[^5]MGMT 945 THE HUMANISTIC MANAGER/LEADER (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. Prerequisites: MGMT 901, MGMT 902, MGMT 903.
MGMT 950 STRATEGIC QUALITY MANAGEMENT (3) This course provides a thorough introduction to the core concepts and principles of quality management from an upper level management perspective. The quality management philosophies of W . Edward Deming and Joseph M. Juran are emphasized. In addition, students will investigate the contributions of other prominent individuals and examples of current practice from successful organizations. Prerequisite: MGMT 903.
MGMT 953 QUALITY CERTIFICATION (3) This course covers the requirements of the different types of quality certification (ISO 9000, etc.) and the process that an organization goes through to achieve this goal. Organizations that have recently achieved certification will be used as examples. Each student will prepare a feasibility study detailing what it would take for an organization of their choice to receive an appropriate kind of quality certification. Recommended prerequisite: MGMT 950.
MGMT 995 INDIVIDUAL READING AND RESEARCH (2-3) Open to especially qualified students with the consent of the chair of the department and the dean.

## Marketing (MKTG)

## Undergraduate Courses

MKTG 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.
MKTG 302 MARKETING RESEARCH (3) Marketing research, methodologies, and managerial utilization of research findings. Prerequisite: STAT 200, MKTG 300.
MKTG 303 CO-OP EDUCATION/MARKETING: JUNIOR LEVEL (3-6) An elective cooperative experience where students earn academic credit while performing approved marketing-related work experience. Prerequisite: MGMT 301, 55 credit hours completed, 2.75 gpa, department approval required.
MKTG 310 INDUSTRIAL MARKETING (3) Problems of marketing industrial products. Management of the pricing, selling, and servicing of industrial goods distributions. Customer services. Prerequisite: MKTG 300.
MKTG 320 INTERNATIONAL MARKETING (3) Conditions peculiar to international distribution of goods and services and its effects on the national welfare. Prerequisite: MKTG 300 .
MKTG 325 MARKETING SERVICES (3) The marketing of services will be explored with special emphasis on how they differ from packaged and industrial goods. Prerequisite: MKTG 300.
MKTG 328 DIRECT MARKETING (3) Direct marketing as a tool, its strategies, techniques and measurement systems are studied. Prerequisite: MKTG 300.
MKTG 330 RETAIL MANAGEMENT (3) Fundamental principles and policy considerations for the successful management of modern-day retailing organizations. Case study. Prerequisite: MKTG 300.
MKTG 331 ADVANCED CONCEPTS IN RETAILING (3) Study of retailing beyond the introductory course. Special emphasis on buying and merchandising functions. Prerequisite: MKTG 330 or permission of instructor.
MKTG 345 MARKEIING COMMUNICATIONS (3) Fundamental behavioral and communication concepts used in developing effective communications programs. Prerequisite: MKTG 300.
MKTG 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: MKTG 300.

MKTG 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: MKTG 300.
MKTG 355 NEW PRODUCT DEVELOPMENT (3) Fucuses 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: MKTG 300.
MKTG 361 PROMOTION AND SELLING (3) Dynamies of selling and techniques of persuasive leadership. Sales management. Selection, training, compensation, and analysis of sales force activities. Prerequisite: MKTG 300.
MKTG 370 CONSUMER BEHAVIOR (3) Marketing strategy implications of consumer behavior. Anthropology, economics, psychology, sociology, and the consumer: Prerequisite: MKTG 300.
MKTG 390 CONTEMPORARY MARKETING ISSUES (3) Current developments in consumerism and consumer protection. Ecology, social responsibility, and ethical issues. Governmental roles. Prerequisite: MKTG 300.
MKTG 399 TUTORIAL IN MARKETING: JUNIOR LEVEL (2-3) Research, meeting, and attendance at scheduled lectures as determined by the advisor. Prerequisite: permission of the chair and dean..
MKTG 400 MARKETING MANAGEMENT (3) Marketing planning. The coordination of all aspects of marketing. Efficient utilization of resources. Prerequisites: six hours of upper division marketing courses.
MKTG 403 CO-OP EDUCATION/MARKETING: SENIOR LEVEL (3-6) An elective cooperative experience where students earn academic credit while performing approved markering-related work experience. Prerequisite: MGMT 301,55 credit hours completed, 2.75 gpa, departmental approval required.
MKTG 491 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.
MKTG 495 MARKETING, PLANNING AND ANALYSIS (3) Application of markeling principles to case analysis. Prerequisites: FINC 300, MKTG 400 and six hours of upper division marketing courses.
MKTG 499 TUTORIAL IN MARKETING (2-3) Research, meeting, and attendance at scheduled lectures as determined by the advisor. Prerequisite: permission of the chair and dean.

## Graduate Courses

MKTG 801 MARKETING CONCEPTS (2) Principles of marketing; concepts, functions, institutions, and policies.
MKTG 901 MARKETING STRATEGY (3) The strategic planning process as it applies to marketing management, current literature and techniques. Prerequisites: All business skills and required foundations skills courses.
MKTG 902 MARKETING RESEARCH (3) (PSYC 553) Methods and techniques of marketing research; its use as a tool of management; cases in marketing research. Prerequisite: MKTG 901.
MKTG 926 MULTINA TIONAL MARKETING (3) Product decisions, pricing decisions, and channel decisions in the world market environment. Stresses cultural differences. Prerequisite: MKTG 901.
MKTG 928 DIRECT MARKETING (3) The use of direct marketing as a powerful business to business and consumer marketing tool is explored. Prerequisite: MKTG 901,
MKTG 929 INTEGRATED MARKETING CONCEPTS (3) A study of integrated marketing communications planning, strategies and procedures and the curtent rules that govern the dynamics of marketing to today's business and consumer marketplaces, Emphasis is on the application of integrated direct marketing to increase sales by synchronizing advertising, direct mail, telemarketing and field sales. Prerequisite MKTG 801.

MKTG 930 MARKETING SERVICES (3) The principles, practice and scope of service marketing are explored. Prerequisite: MKTG 901.
MKTG 960 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: MKTG 901.
MKTG 961 MARKETING MANAGEMENT (3) Application of marketing concepts and theory to actual situations via case method. Individual reports and presentations. Prerequisite: MKTG 901.
MKTG 963 INDUSTRIAL MARKETING (3) Problems of marketing industrial products. Management of the marketing channels and pricing, selling, and distribution of the products. Prerequisite: MKTG 901.
MKTG 964 CONSUMER BEHAVIOR THEORY (3) Evaluation of research findings from behavioral sciences and other disciplines. Relationship to marketing. Prerequisite: MKTG 901.
MKTG 965 ADVERTISING THEORY AND PRACTICE (3) The role of advertising in the marketing process. The advertising campaign, its creative and media components. The decision processes. Prerequisile: MKTG 901.
MKTG 966 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: MKTG 901.
MKTG 967 INTERNATIONAL SALES AND NEGOTIATION (3) Examines the sales and negotiations processes in an international environment. Topics include networking, prospecting, communication skills, and other areas that influence strategic design. Prerequisite: MKTG 901.
MKTG 968 NEW PRODUCT PLANNING AND DEVELOPMENT (3) The entire process of new product development from idea generation to commercialization is developed. Prerequisite: MKTG 901.
MKTG 969 MARKETING MODELS (3) Examination and application of computer models developed for a variety of marketing decisions. Prerequisite: MKTG 901.
MKTG 970 SEMINAR: CONTEMPORARY MARKETING ISSUES (3) Current developments in marketing as related to social issues: consumerism, social responsibility, ethical issues, and governmental roles. Prerequisite: MKTG 901.
MKTG 995 INDIVIDUAL READINGS AND RESEARCH (2-3) Open to especially qualified students with the consent of the chairman of the appropriate department and dean.

## Mathematics (MATH)

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.

## Lower Division Courses

MATH 105 FUNDAMENTALS OF MATHEMATICS (3) Raional numbers, percents. Polynomials, rational expressions, exponents. Linear and quadratic equations in one and two variables. Graphing. This course does not apply to the core requirement in mathematics.
MATH 110 PRINCIPLES OF CONTEMPORARY MATHEMATICS (3) Patterns and problem solving in counting and calculating with integers. Operations with fractions, rationals, and irrationals. Probability and statistics.
MATH 111 PRINCIPLES OF GEOMETRY (3) Geometric figures and reasoning. Measurement ind geometry with coordinates. Equations and inequalities, graphs of linear and nonlinear relations. Motions in geometry.
MATH 113 MATHEMATICS OF FINANCE (3) Simple and compound interest, discounting. annuities, amortization and sinking funds, stocks, bonds, insurance.
MATH 115 TOPICS IN APPLIED MATHEMATICS (3) Topics in the application of elementary mathematies to real world problems: management science, voting schemes, theory of games, population growth, other models.
MATH 116 ELEMENTARY STATISTICS (3) Description of sample data. Simple probability, theoretical distributions, normal and binomial estination. Tests of hypotheses, correlation, regression.
MATH 120 ELEMENTARY FUNCTIONS (3) Fundamentals of algebra. Graphs and properties of functions, including polynomial, exponential, and logatithmic functions. Applications to real world situations using algebraic, numerical, and graphical methods.
MATH 147 CALCULUS FROM A HISTORICAL PERSPECTIVE (3) An overview of concepts from differential and integral calculus through excerpted readings in English translation of original texts which emphasizes connections with developments in science and philosophy.
MATH 150 ELEMENTS OF CALCULUS I (3) Limits, the derivative, differentiation techniques, curve-sketching, maximum/minimum problems, elementary integration, exponential and logarithmic functions. Requires graphics calculator. Prerequisite: MATH 120 or equivalent.
MATH 151 ELEMENTS OF CALCULUS II (3) Techniques of integration, exponential growth and decay, functions of several variables, partial derivatives, optimization problems, multiple integrals. Prerequisite: MATH 150 or equivalent.
MATH 156 GENERAL STATISTICS (3) Descriptive statistics, probability distributions, confidence intervals and hypothesis testing, regression and correlation, Chi-square tests, analysis of variance, nonparametric tests. Prerequisite: MATH 150 or equivalent.
MATH 160 ALGEBRA AND TRIGONOMETRY REVIEW (1) A condensed version of MATH 165.
MATH 165 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.
MATH 170 CALCULUS I (4) The derivative, techniques and applications, Limits and continuity. The integral with applications. Numerical methods. Prerequisite: MATH 165 or equivalent.
MATH 171 CALCULUS II (4) Transcendental functions. Technicues of integration. Elementary differential equations. Conics. Polar coordinates. Sequences and series, Prerequisite: MATH 170.

MATH 180 ELEMENTS OF DISCRETE MATHEMATICS (3) Logic, set theory, relations and functions, mathematical induction, counting principles, recurrence relations, number systems. Prerequisite: CSCI 170.

## Upper Division Courses

MATH 200 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.
MATH 210 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. Prerequisite: MATH 180.
MATH 220 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. Prerequisite: MATH 171.
MATH 230 DIFFERENTIAL EQUATIONS (3) Ordinary differential equations: first order, second and higher order with constant coefficients. Numerical methods. Series solutions. Laplace transforms. Applications. Prerequisite: MATH 220.
MATH 240 LINEAR ALGEBRA (3) Vector spaces, bases, linear transformations, change of basis. Eigenvalues and eigenvectors. Prerequisite: MATH 210.

Enrollment in the courses numbered 300 or above requires completion of MATH 210, 220, and 230 or departmental approval.

MATH 300 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.
MATH 301 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.
MATH 302 THEORY OF NUMBERS (3) Divisibility and primes, linear congruencies, quadratic residues and reciprocity. Diophantine equations, multiplicative functions, distribution of primes.
MATH 310 SURVEY OF STATISTICS (3) Probability, central limit theorem, estimation, hypothesis testing, regression and correlation, nonparametric methods, goodness of fit, linear models.
MATH 311 MATHEMATICAL STATISTICS I (3) Probability, probability distributions, characteristics of distributions, sampling, estimation.
MATH 312 MATHEMATICAL STATISTICS II (3) Hypothesis testing, confidence intervals, regression, analysis of variance, nonparametric tests. Prerequisite: MATH 311.
MATH 320 INTRODUCTION TO OPERATIONS RESEARCH (3) Deterministic and stochastic models, network analysis. Linear, nonlinear and integer programming. Classical optimization, inventory theory, queueing, Markov analysis.
MATH 321 NUMERICAL ANALYSIS (3) (CSCl 321) Measures of accuracy, sources of error, function evaluation and approximation, systems of linear equations, nonlinear equations, numerical differentiation and integration, and solutions to differential equations. Prerequisites: CSCI 170.
MATH 325 MATHEMATICAL MODELING (3) The synthesis, formulation and solution of various problems in applied mathematics and related fields.
MATH 330 GRAPH THEORY (3) Graphs, subgraphs, trees, isomorphism, Eulerian and Hamiltonian paths, planarity, digraphs, connectivity, matrix representations, chromatic number, circularity.
MATH 340 ABSTRACT ALGEBRA I (3) Groups, isomorphism, homomorphism, normal subgroups, rings, ideals, fields. Prerequisite: MATH 240.

MATH 341 ABSTRACT ALGEBRA II (3) A continuation of MATH 340. Topics may include Boolean algebra, lallice theory, combinatorial group theory, coding theory, Galois theory. commutative rings. Prerequisite: MATH 340.
MATH 360 ELEMENTARY TOPOLOGY (3) Metric spaces, topological spaces, separation axioms. convergence, compactness. connectedness.
MATH 370 INTRODUCTION TO REAL ANALYSIS (3) Real number system. Elementary topology of metric spaces, continuity, comectedness, completeness, compactness. Sequences and series of functions, pointwise and uniform convergence. Stieltjes integral.
MATH 372 APPLIED ANALYSIS (3) Vector analysis, special functions, orthogonal sets of functions. Sturm-Liouville theory. Fourier series, integrals, and transforms.
MATH 380 COMPLEX VARIABLES (3) Complex numbers, analytic functions, complex integration, series representation of analytic functions, the calculus of residues.
MATH 397 SPECIAL READING AND STUDY FOR ADVANCED STUDENTS (Credit by arrangement.)

## Medical Technology (MEDT)

These are Clinical courses taken on-site at various Committee on Allied Health, Education, and Accreditation (CAHEA) approved hospitals.

## Upper Division Courses

MEDT 450 INTRODUCTION TO MED LAB SCIENCE (0)
MEDT 451 INTRODUCTION TO MED LAB SCIENCE - LAB (0)
MEDT 453 URINALYSIS (3)
MEDT 455 CLINICAL MICROSCOPY/URINALYSIS (3)
MEDT 457 CLINICAL CHEMISTRY (3)
MEDT 461 HEMATOLOGY \& HEMOSTASIS (3)
MEDT 463 HEMATOLOGY \& COAGULATION (3)
MEDT 465 HEMATOLOGY (0)
MEDT 471 MEDICAL MICROBIOLOGY (7)
MEDT 473 CLINICAL MICROBIOLOGY (3)
MEDT 475 MEDICAL BAC'TERIOLOGY (3)
MEDT 481 SEROLOGY (0)
MEDT 483 TOXICOLOGY (3)
MEDT 484 LABORATORY MANAGEMENT (12)
MEDT 485 MEDICAL MYCOLOGY (3)
MEDT 486 RENAL FUNCTION (4)
MEDT 487 IMMUNOLOGY (3)
MEDT 489 DIAGNOSTIC PARASITOLOGY (3)
MEDT 491 MYCOLOGY \& VIROLOGY (3)
MEDT 493 CLINICAL PATHOLOGY (3)
MEDT 495 IMMUNOHEMATOLOGY (3)
MEDT 499 INDEPENDENT STUDY (3)

## Military Science (MILS)

MILS 101

MILS $102 /$

MILS 103
MILS 201

MILS 202/ 204

MILS 203

MILS 299

MILS 301
MILS 302/
304

MILS 303
MILS 399

MILS 401
MILS $402 /$
404

MILS 403
MILS 499 DIRECTED STUDY (Credil to be arranged) Open to especially qualified students with the consent of the department chair.

## Modern Languages (MDLN)


#### Abstract

Upper Division Course MDLN 480 TEACHING MODERN LANGUAGES (3) A course designed to show teachers and prospective teachers ways of implementing and supplementing existing materials for modern foreign language teaching, while introducing them to various methodological approaches. Emphasis is placed on ways of developing the skills of listening, speaking, reading and writing as well as the teaching of culture and civilization. Taught in English; does not count toward language requirement.


## Music (MUSC)

## Lower Division Courses

MUSC 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.
MUSC 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.
MUSC 110 SURVEY OF GLOBAL MUSIC (3) Comparative study of music from four continents with emphasis on Africa, Latin America, South East Asia and Eastern Europe.
MUSC 111 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.
MUSC 112 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.
MUSC 113 MUSIC AND HUMAN EXPERIENCE (3) Introduction to major works of Music Literature focusing on shared human experiences and their interpretation in music.
MUSC 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.
MUSC 115 AFRICAN-AMERICAN MUSIC (3) Survey of Black music styles from 17th to 20th century; emphasis on African roots of this tradition and historical and sociocultural contexts that gave birth to a Black music tradition.
MUSC 116 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.
MUSC 120 FUNDAMENTALS OF SCHOOL MUSIC (2) For classroom teachers. Basic elementary methods and materials for elementary grades.
MUSC 121 MUSIC IN THE ELEMENTARY SCHOOL (2) Intermediate level course. Focus upon creativity and curriculum design K-8. Prerequisite: MUSC 120.
MUSC 154/ DANCE AND MOVEMENT I, II (1) Technical aspects of dance through medium
155 of 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.
MUSC 156/ ADVANCED DANCEANDMOVEMENTI,II(1)Continuation of MUSC 154-155. 157

## Upper Division Courses

MUSC 200 THEORYI (3) Study of elements of musical organization; four-part harmonization and analysis.
MUSC 201 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.
MUSC 202 THEORY II (3) Continuation of MUSC 200. Prerequisite: MUSC 200 or permission of instructor,
MUSC 203 SIGHTSINGING AND DICTATION II (1) Continuation of MUSC 201.
MUSC 204 JAZZ THEORY I (2) The advanced study of Jazz styles and techniques in both writing and improvisation with emphasis on analysis, form, history and repertoire. Prerequisites: MUSC 101, 206 and 306.
MUSC 205 JAZZ THEORY II (2) Continuation of MUSC 204.
MUSC 206 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.
MUSC 210 SURVEY OF MUSIC LITERATUREI (3) Introduction to the literature of music. Discussion of representative compositions from Early Middle Ages to the Classical period with emphasis on Iistening and rudimentary aural analysis of selected works.
MUSC 211 SURVEY OF MUSIC LITERATURE II (3) Continuation of MUSC 210. Discussion of representative compositions from the Romantic to the Contemporary style periods.
MUSC 221 MUSIC IN THE ELEMENTARY SCHOOL (2) See MUSC 121. For music majors or with permission of instructor.
MUSC 230 LITURGICAL MUSIC IN AMERICAN CATHOLIC CULTURE (3) This course will investigate the role of music from liturgical, theological and musical perspectives and the current influences of popular American Catholic culture.
MUSC 300 THEORY III (3) Continuation of MUSC 202; special emphasis on harmonic developments during the Romantic period (chromaticism, altered chords).
MUSC 301 SIGHTSINGING AND DICTATIONIII(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.

MUSC 302
MUSC 303
MUSC 304

MUSC 305 PRODUCING ELECTRONIC MUSIC II (3) Continuation of MUSC 304. Advanced studies in computer based composition, orchestration and synchronization of studio hardware/software for commercial music applications. Additional skills will be developed in computer music engraving, digital mixing and editing and master recording production.
MUSC 306 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: MUSC 101 or equivalent.
MUSC 307 JAZZ REPERTOIRE AND IMPROVISATION WORKSHOP (2) An in-depth application of jazz improvisation styles to the live performance situation with an emphasis on accumulated repertoire. Prerequisite: MUSC 101 and 206 or equivalent.
MUSC 310 MUSIC HISTORY I (3) Historical development of music from antiquity to the end of the Baroque era.

MUSC 311 MUSIC HISTORY II (3) Historical development of music from Viennese Classicism to the present: a continuation of MUSC 310.
MUSC 320 MUSIC IN THE SECONDARY SCHOOL (2) Overview of role, and responsibility of music teacher. Vocal, instrumental, and general music education. (For music majors only.)
MUSC 321 METHODS AND MATERIALS IN THE SECONDARYSCHOOL (2) Emphasis on instrumental and choral methods and materials. Practical guide for secondary music educator. Prerequisite: MUSC 320.
MUSC 322/ TEACHING MUSIC WITH TECHNOLOGY (2)
522
MUSC 328 CHILDREN'S CHORAL AND VOCAL WORKSHOP (1-2)
MUSC 330 MUSIC FOR THE LITURGY (3) Survey of sacred music appropriate for liturgical celebrations throughout the church year.
MUSC 331 CHURCH SERVICE PLAYING (1) A practical course in hymn playing and the accompaniment of psalmody and other liturgical songs.
MUSC 332 INTRODUCTION TO ORGAN IMPROVISATION (1) Basic concepts and techniques of organ improvisation. Includes stylistic approaches from the Baroque to the present.
MUSC 340 OPERA WORKSHOP (1-3) 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. Prerequisite: permission of instructor.
MUSC 350 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. Prerequisite: permission of instructor.
MUSC 399 INDEPENDENT STUDY (1-3).
MUSC 400 FORM AND ANALYSIS (3) Intensive study of larger musical forms; works selected from representative works of instrumental and vocal music literature. Prerequisite: MUSC 302.
MUSC 401 ORCHESTRATION-ARRANGING (3) The technique of scoring for orchestra, band and diverse instrumental ensembles. Prerequisite; MUSC 302 or equivalent.
MUSC 402 COMPOSITION (3) Introduction to creative writing in simple musical forms. Prerequisite: MUSC 400 or equivalent.
MUSC 403 COUNTERPOINT (3) Advanced course of contrapuntal writing in the style of eighteenth-century composers. Emphasis on chorale prelude and fugue.
MUSC 410 SONG LITERATURE (3) Survey of vocal repertoire from the preclassical to the present; course also includes discussion of style and performance technique.
MUSC 411 STUDIES IN MUSIC LITERATURE (3) Survey of development and repertoire of vocal, choral or instrumental literature. Topics vary with need of curriculum design.
MUSC 412 STUDIES IN MUSIC HISTORY (3) In-depth study of specific eras in the history of music or of major composers and their work.
MUSC 420 CONDUCTING I (3) Fundamentals of conducting. Basic techniques, and study of shorter choral and instrumental works. Prerequisite: MUSC 202, Corequisite: MUSC 160.
MUSC 421 CONDUCTING II (3) Continuation of MUSC 420. Study of more complex examples from instrumental and choral literature. Corequisite: MUSC 160.
MUSC 424 PIANO PEDAGOGY (2) Principles of teaching piano; survey of teaching materials.
MUSC 425 VOICE PEDAGOGY
MUSC 426 / FOUNDATIONS OF MUSIC EDUCATION (3) A comprehensive study of 626 Music Education: history, philosophy, theory, and practical application.
MUSC $427 /$ CONTEMPORARY APPROACHES IN MUSIC EDUCATION (3) Introduc-
627 tion to Orff and Kodaly methodology: curricular innovations for elementary, middle school, and secondary levels.
MUSC 479 INDEPENDENT STUDY (1-3).

## Instrumental Techniques

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.
MUSC 351 STRING TECHNIQUES (1).
MUSC 352 WOODWIND TECHNIQUES (1).
MUSC 353 BRASS TECHNIQUES (1).
MUSC 354 PERCUSSION TECHNIQUES (1).

## Applied Music

The Department of Music offers private instruction in the instruments or instrumental areas listed below.

## PRIVATE LESSONS (0.5-1)

MUSC 280 PIANO
MUSC 281 ORGAN
MUSC 282 VOICE
MUSC 283 GUITAR
MUSC 284 VIOLIN
MUSC 285 VIOLA
MUSC 286 CELLO
MUSC 287 DOUBLE BASS
MUSC 288 FLUTE
MUSC 289 OBOE
MUSC 290 CLARINET
MUSC 291 SAXOPHONE
MUSC 292 BASSOON
MUSC 293 FRENCH HORN
MUSC 294 TRUMPET
MUSC 295 TROMBONE
MUSC 296 TUBA
MUSC 297 PERCUSSION
MUSC 298 JAZZ VOICE/INST
MUSC 299 HARP

## GROUP INSTRUCTION

MUSC 150 CLASS PIANO (1) Group instruction in basic piano techniques.
MUSC 151 CLASS VOICE (1) Group instruction in the basic techniques of voice production.
MUSC 152 CLASS GUITAR (1) Group instruction in the basic guitar techniques.

## Ensembles

MUSC 260 CONCERT CHOIR (1) Chorus of mixed voices. Performance of choral compositions from the Renaissance to the present. Participation with consent of director: Credit or noncredit.
MUSC 261 UNIVERSITY SINGERS (1) Study and performance of choreographed choral repertoire for mixed voices, including selections from musical theatre, popular standards and vocal jazz.
MUSC 262 GOSPEL CHOIR (1) Study and performance of gospel "standards" and contemporary gospel compositions.
MUSC 263 VOCAL CHAMBER ENSEMBLE (1) This ensemble is a select group of solo voices chosen from the Concert Choir who perform vocal chamber music ranging from the Renaissance to the 20th century.
MUSC 264 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.

MUSC 265 CONCERT BAND (1) Study and performance of a wide variety of repertoire for concert band, jazz band and pep band.
MUSC 266 WOODWIND ENSEMBLE (1) A select woodwind chamber ensemble performing original works and transcriptions. Participation with consent of director.
MUSC 267 PERCUSSION ENSEMBLE (1) Study and performance of standard percussion literature. Participation with consent of director.
MUSC 268 GUITAR ENSEMBLE (1) Study and performance of music for guitar ensemble from all style periods. Participation with consent of director.
MUSC 269 CHAMBER MUSIC ENSEMBLE (1) Snall ensembles of various instrumental combinations ranging from two to five players. Performance of standard chamber music literature. Participation with consent of instructor.
MUSC 270 CHAMBER ORCHESTRA (1) Study and performance of standard chamber orchestra literature for strings and other instruments. Participation with consent of director.
MUSC 271 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 transeriptions and arrangements. Participation with consent of the director.
MUSC 272 OPERA WORKSHOP (1) 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. Prerequisite: permission of instructor.

## Nursing (NURS)

Undergraduate B.S.N. Courses

NURS 130 WAYS OF KNOWING (3) Introduces student to diversity in learning styles, ways of knowing, problem solving, and critical reasoning requisite to professional nursing. Concepts and theories of transitions serve as a framework for discussing nursing. Ethical codes and standards perlinent to nursing are presented.
NURS 132 HEALTH AND CULTURE (3) Focus on culture as it relates to the universal properties of transition and its relationship to health. Prerequisite/Corequisite: NURS 130. Fulfills the Cultural Diversity Elective requirement.
NURS 224 NURSING THERAPEUTICS I: ASSESSMENT (4) Introduction of theoretical framework for assessment of clients experiencing health-illness, situational, and developmental transitions. Concept of therapeutic relationships is introduced. Interview techniques and methods of data collection are presented. Prerequisites: NURS 132 and a 2.5 GPA; Corequisite: NURS 225.
NURS 225 NURSING THERAPEUTICS I: PRACTICUM ASSESSMENT (2) Introduction of methods of assessment of clients experiencing health-illness, situational and developmental transitions. Assessments of the individual will be examined as they apply to nursing care in primary, secondary, and tertiary practice settings. Laboratory and beginning field experiences will be provided. Six hours of practicum weekly. Prerequisite: NURS 132; Corequisite: NURS 224.
NURS 230 NURSING THERAPEUTICS II (4) An analysis of nursing therapeutics used with individuals experiencing transitions. Promotive, preventive, and intervenience strategies including pharmacology and nutrition are introduced. The research and theoretical basis for the selection of therapeulics is emphasized. The importance of decision making in selecting appropriate therapeutics to achieve and manage outcomes is discussed. Prerequisites: NURS 224, 225; Corequisites: NURS 231, BIOL 200/201.

NURS 231 NURSING THERAPEUTICS II PRACTICUM (2) Application of promotive, preventive, and intervenience nursing therapeutics to be used with individuals experiencing transitions in primary, secondary, and tertiary health care settings. Laboratory and field experiences will be provided. Six hours of clinical practicum weekly. Prerequisites: NURS 224, 225; Corequisites: NURS 230, 364.
NURS 320 PROFESSIONAL DEVELOPMENT ( 3 ) The study of professional nursing and its education and practice as related to the individual nurse. (R.N. option)
NURS 330 INTRODUCTION TO NURSING RESEARCH (3) Focus is on the analysis and utilization of nursing research literature to facilitate nursing care of individuals, families, and communities. The use of the principles and methods of research as a means for developing critical reasoning vital to professional judgement is emphasized. Prerequisites: MATH 116 or MATH 156.
NURS 332 CULTURAL INFLUENCE ON HEALTH AND CARING (2) Focuses on identified cultural groups and how culture influences the values, attitudes and practices of an individual, family, and group as related to health and caring. Fulfills the Cultural Diversity Elective requirement. (R.N. option)
NURS 334 DECISION MAKING IN NURSING PRACTICE (3) Focuses on the study of systematic deliberative actions relating to clients' responses to actual or potential health problems; includes the study of the individual client and the necessary nursing strategies for disease prevention and the promotion and restoration of health. Corequisite: BIOL 340. (R.N. option)
NURS 340 BASIC PHYSICAL ASSESSMENT PRACTICUM (1) Prepares the nurse to use basic skills in physical assessment. Three hours of practicum weekly. Prerequisites: BIOL 140, 141, 142, 143, 200, 201; CHEM 140, 141, 142, 143. (R.N. option)
NURS 350 MANAGEMENT OF NURSING CARE I (2) Introduces the basic concepts of management: planning, orgaaizing, directing, and controlling, Skills of problemanalysis, decision making and communication essential to all phases of management as these skills are applied at the micro-level of health care in organizations. Prerequisites: NURS 320, 330, 332, 334, 340. (R.N. option)
NURS 360 ADULT TRANSITIONS (4) Focus on adults experiencing health-illness transitions. Emphasis is placed on management of common health-illness transitions of adults. The development of skill in seeking information regarding surgical, pharmacological, and nutritional interventions which may be prescribed to assist individuals in achieving healthy outcomes. Commonalities of health-illness transitions are discussed, Prerequisites: NURS 230, 231, 364; Corequisite: NURS 361.
NURS 361 ADULT TRANSITIONS PRACTICUM (4) Application of promotive, preventive, and intervenience nursing therapeutics in adults experiencing health-illness transitions in primary, secondary, and tertiary health care settings. Focus on fostering skill in planning, implementing, and evaluating nursing therapeutics used to facilitate heal thy outcomes for adults. Twelve hours of clinical practicum weekly. Corequisite: NURS 360.
NURS 364 PATHOPHYSIOLOGY (3) A study of the major areas of pathophysiological processes - their causes, prevention, symptoms, and influence on the emotional and physical well-being of individuals in transition. Commonalities of disease processes are emphasized. Cultural and ethnic variations in prevalence and incidence are discussed. Prerequisites: BIOL 140/141, 142, 143, Physiological Chemistry.
NURS 370 INTRODUCTION TO NURSING RESEARCH (3) Focus is on the analysis and utilization of nursing research literature to facilitate nursing care of individuals, fanilies, and communities. The use of the principles and methods of research as a means for developing critical reasoning vital to professional judgement is emphasized. Prerequisites: MATH 116 or MATH 156.

NURS 372 FAMILIES IN TRANSITIONS (4) Focus on families experiencing transitions. Concepts associated with the unique responses of families during the childbearing and child rearing cycle are discussed. Diversity of family life related to ethnicity/ culture is emphasized. Family transitions into adulthood, aging and death are explored. Prerequisites: NURS 230, 231, 364; Corequisite: NURS 373.
NURS 373 FAMILIES IN TRANSITIONS PRACTICUM (4) Application of promotive, preventive, and intervenience nursing therapeutics to be used with families experiencing transitions. Experiences are provided with families in various stages of development. Skills in assessing, planning, implementing, and evaluating nursing therapeuties for individuals and families are emphasized. Twelve hours of clinical practicum weekly. Corequisite: NURS 372.
NURS 420 PROFESSIONAL DEVELOPMENT II (2) Study of the nursing profession as it impacts professional nurses and their future including knowledge, development, standards, legal factors, ethics, values, role of organizations, career development and strategies for contributing to the development of the profession. Prerequisites: NURS $320,440,441$, or permission of instructor. To be taken in final semester. (R.N. option)

NURS 440 NURSING AND FAMILY HEALTH (3) The study of health promotion of the family system both internally and in interaction with external intra-connecting systems. Focus on family as client. Prerequisites: NURS 320, 330, 332, 334, 340; Corequisite: NURS 441. (R.N. option)
NURS 441 NURSING PRACTICE AND APPLICATION I (Practicum) (2) Nursing strategies associated with the management of health care issues throughout the family's life-span are developed and implemented. Six hours of practicum weekly. Corequisite: NURS 440. (R.N. option)
NURS 442 NURSING AND COMMUNITY HEALTH (2) Focus on community as client, which describes the aggregate concept, the influence of groups in communities and the extent to which environment affects the health of communities. Prerequisites: NURS 350, 440; Corequisite: NURS 443. (R.N. option)
NURS 443 NURSING PRACTICE AND APPLICATION II (Practicum) (2) Health care management and various nursing roles within communities of increasing complexities. Nursing strategies aimed at disease prevention, promotion and restoration of health will be applied to the management of identified community health problems. Six hours of practicum weekly, Corequisite: NURS 442. (R.N. option)
NURS 450 MANAGEMENT OF NURSING CARE II (2) Continualion of NURS 350. Study of the application of the skills of problem analysis, decision making, and communication as these skills are used at the macro-level of health care. Prerequisite: NURS 350. (R.N. option)

NURS 460 WOMEN'S HEALTH ISSUES (2-3) A discussion of the health issues affecting women as individuals and as a group. The influence of the existing health care and social structures on women's treatment and perception of illness will be examined. (Open to non-nursing students.) Elective course.
NURS 461 INTRODUCTION TO ONCOLOGY NURSING (2-3) Focuses on patients and families experiencing cancer. Emphasis is placed on understanding the integration of the epidemiological, biological, physiological, psychological, and nursing science supporting the principles of patient and family care. (Open to non-nursing students.) Elective course.
NURS 465 CARE OF THE OLDER ADULT (2-3) Emphasis placed on the normal aging process and the continuing development and care of the older adult. Health promotion, prevention, diagnosis and treatment, maintenance, and restoration of individuals in their later years. (Open to non-nursing students.) Elective.

NURS 466 EXPRESSIONS OF HOPE (2-3) Examines expressions of hope and suffering through art, music, history, and the religious values, beliefs and mysteries that surround the needs of the human spirit. Examination of the relevance of issues of faith, hope, and the ethical aspects of personal responsibility in sharing in the needs of others. (Open to non-nursing students.)
NURS 468 FROM ACUPUNCTURE TO ZINC: PAIN MANAGEMENT (2-3) Explores traditional methods of pain management and comfort measures as well as complementary modalities that can be applied to bring about a sense of wellness and calm. (Open to non-mursing students.) Elective.
NURS 470 COMMUNITY HEALTH NURSING (4) Focuses on communities experiencing common transitions. The community as a client is emphasized. Assessment, planning, intervention, and evaluation of nursing therapeutics appropriate to community outcomes are discussed. Prerequisites: All 300 level nursing courses; Corequisite: NURS 471.
NURS 471 COMMUNITY HEALTH NURSING PRACTICUM (4) Application of promotive, preventive, and intervenience nursing therapeutics to be used with communitics experiencing transitions. Practicum experience within community based organizations is provided. Community assessment skills, accessing community resources and evaluation of policy are emphasized. Twelve hours of practicum per week. Prerequisite: All 300 level nursing courses; Corequisite: NURS 470.
NURS 472 COMMON TRANSITIONS: ORGANIZATIONS (4) Focus on organizations in transitions. Organizational, management, and leadership theories are discussed. The role of the professional nurse as coordinator of care is explored in depth. Prerequisite: All 300 level nursing courses; Corequisite: NURS 473.
NURS 473 COMMON TRANSITIONS: ORGANIZATIONS PRACTICUM (4) Application of promotive, preventive, and intervenience nursing therapeulics in organizations undergoing transitions. Leadership experiences in primary, secondary, and tertiary settings will be provided. Experience available to the student to improve skills in assessment, planning, implementation, and evaluation of nursing therapeutics. Sixteen hours of practicum weekly for ten weeks. Prerequisite: All 300 level nursing courses; Corequisite: NURS 472.
NURS 498 SENIOR SEMINAR (3) Taken in the final semester, this course focuses on the student's transition to entry-level practice. An inspection of personal transitions within the practice of nursing is examined. This capstone course allows the student to explore the educational transition of the program and to anticipate the professional transition into practice. Professional responsibilities and duties are emphasized. Students will write a scholarly paper. A seminar course. Prerequisite: All 300 level nursing courses and in final semester of program.

## Graduate Courses

NURS 501 THEORETICAL BASES FOR NURSING PRACTICE (3) Critical analysis of selected models extant within the discipline of nursing and of related theories and concepts from other disciplines.
NURS 502 NURSING RESEARCH (3) Exploration of modes of inquiry for systematic study of phenomena of concern to nursing. Study of the components of research process, critique of published research and developinent of a research proposal.
NURS 503 EPIDEMIOLOGIC METHODS IN HEALTH CARE SERVICES (3) Principles and methods used in the study of the distribution and determinants of injury and disease in human populations are presented for use in the planning, delivery and evaluation of heallh services. Advanced statistical techniques used in the study of epidemiology are applied.
$\left.\begin{array}{ll}\text { NURS 505 } & \begin{array}{l}\text { HEALTH CARE INFORMATICS (3) An introduction to the attitudes, knowl- } \\ \text { edge, strategies, and processes needed to incorporate information technology within } \\ \text { a successful career as a climician, administrator, educator, and researcher. }\end{array} \\ \text { NURS 507 } \\ \text { RESOURCE MANAGEMENT (3) Overview of the roles and responsibilities of } \\ \text { the nurse in effective and efficient manugement of human, financial, and material } \\ \text { resources. }\end{array}\right\}$

## Occupational Therapy (OCTH)


#### Abstract

Lower Division Courses OCTH 101/ OCCUPATIONAL THERAPY CONCEPTS AND PHILOSOPHY (3) Survey 433 of the profession of Occupational Therapy, including history, philosophy, role delineation, and an introduction to the different settings and practice specialties of occupational therapy. If space is available, is also open to non-OCTH majors who may be interested in applying to the program in the future.


OCTH 143/ DEVELOPMENTAL PROCESS: PHYSICAL AND PSYCHOLOGICAL (3)
434 Hurnan physical and psychological growth and development over the life span, including sensory, perceptual, motor, cognitive, social, and psychological processes.
OCTH 201/ HUMAN OCCUPATION THROUGHOUT THE LIFE SPAN (3) Introduction
441 to the model of human occupation, a foundations course which examines integral concepts such as volition, roles, habit formation, temporal adaptation, and performance components of individuals in all age groups. Prerequisite: OCTH 101/433.

## Upper Division Courses

OCTH $302 /$ MEASUREMENT APPLICATION (3) Measurement theory and concepts of sud rizion, relibily, viliky, adshaden assess routine occupational therapy methods of evaluating human occupation and functional performance. Prerequisites: OCTH 101, OCTH 143, MATH 116. DISABLING CONDITIONS I: BIOCHEMICAL/PSYCHOSOCIAL (3) Common conditions seen by OTs in clients of all age groups with psychosocial and/or biochemical disorders. Etiology, symptoms, and course of each condition are reviewed and analysis of performance components affected by each. Prerequisites: OCTH 143, OCTH 201.
OCTH $304 /$ OCCUPATIONAL THERAPY THEORY AND PRACTICE I: BIOCHEMI-
444 CAL/PSYCHOSOCIAL (3) Theory and process used by occupational therapists in working with individuals with disabling conditions of a psychosocial or biochemical nature. Prerequisites: OCTH 101,143,201 Corequisites: OCTH 302,303, 391.

OCTH 305/ INTRODUCTION TO CLINICAL PRACTICE (2) Professional behaviors, 414 attitudes, and judgements are discussed as an orientation to field work. Issues of patient confidentiality, student role, and use of supervision are covered. Prerequisites: OCTH $101,201$.
OCTH 306 CONTEMPORARY TECHNOLOGIES LAB (3) Nontraditional media and 446 contemporary rehabilitation technology are used in the occupational therapy process for evaluation and treatment activities (use of video recording, computers, environmental controls, driving evaluations, etc.). Prerequisites: OCTH 143, 201, 311.
OCTH 307/ DISABLINGCONDITIONSII:NEURODEVELOPMENTAL/NEUROLOGICAL
447 (3). Etiology, symptoms, and course of conditions of a neurological or neurodevelopmental nature are reviewed and analysis of human performance components affected by each. Prerequisites: OCTH $143,201,302,303,304$.
OCTH 308/ OCCUPATIONAL THERAPY THEORY AND PRACTICE II: 448 NEURODEVELOPMENTAL/NEUROLOGICAL (3) Theory and process used by occupational therapists in working with individuals with disabling conditions of a neurological or neurodevelopmental nature. Includes three hours of lecture and three hours of lab to observe and practice clinical procedures. Prerequisites: OCTH 143, 201, 302, 303, 304; Corequisites: OCTH 307, 492/493.
OCTH 311/ THERAPEUTIC OCCUPATIONS I (3) Activity analysis, theory and process.
451 Includes a combination of lecture and lab for a total of four hours of lab per week, emphasizing engagement in and adaptation of individual creative- expressive and industrial activities. Prerequisites: OCTH 101, 201.
OCTH 312 THERAPEUTIC OCCUPATIONS II (3) Continuation of Therapeutic Occupa-
452 tions I, with emphasis on activities of a large motor and verbal/social group nature. Includes one hour lecture and four hours of lab per week. Prerequisites: OCTH 143, 201, 303, 304, 311.
OCTH 315/ LEVEL I FIELD WORK A (1) A block of three to four hours per week is spent 415 in elinical site. Beginning psychosocial practice skills are performed under close supervision. Prerequisites: OCTH 143, 201. Pre/Corequisites: OCTH 302,303,304,305, 311. Permission of Department Chair is necessary.
OCTH 325/ LEVEL I FIELD WORK B (1) A block of three to four hours per week is spent in clinical site. Beginning practice skills in working with those with neurodevelopmental or neurological conditions are performed under close supervision. Prerequisites: OCTH 143, 201, 302,303,304,305,311, 315. Corequisites: 307,308, 312. Permission of Department Chair is necessary.
OCTH 391/ THEORY \& PRACTICE LAB I (1) Demonstrations and practice with interview
491 skills, evaluation techniques, treatment methods, as used by occupational therapists working with clients with biochemical or psychosocial dysfunction. Corequisite: OCTH 304/444.
OCTH 401/ DISABLING CONDITIONS III: BIOMECHANICAL/REHABILITATIVE
461 (3). Etiology, symptoms, and course of disabling conditions of a biomechanical
nature, or those that require rehabilitation after trauma or the disease process. Analysis of human performance components affected by each. Prerequisites: OCTH 143, 201, 302, 303, 304, 306, 307, 308, 325.
OCCUPATIONAL THEORY AND PRACTICE III: BIOMECHANICAL/
REHABILITATIVE (3). Theory and process used by occupational therapists in working with individuals with disabling conditions of a biomechanical nature or those that require rehabilitation after trauma, or the disease process. Includes three hours of lecture and two hours of lab to observe and practice clinical procedures. Prerequisites: OCTH $143,201,302,303,304,306,307,308,325$. Corequisites: OCTH 401, 435, 494/495.
PROFSSIONAL ISSUES AND ETHICS (2). An in depth review of current professional issues in occupational therapy. Health care delivery, practice dilemmas, the role of professional associations in regulation, advocacy and political action. Prerequisites: PHIL 329 or HESA 644, OCTH 143, 201, 302, 303, 304, 305, 306, 307, 308, 311, 312, 315, 325, 401, 402, 435, and Pre/Corequisite CICTH 406/ 446.

RESEARCH METHODS IN OCCUPATIONAL THERAPY (3) Research methodology used in the service of scientific inquiry. Critique of selected research literature in occupational therapy, analysis of methods used, finding, and interpretation of results. Prerequisites: MATH 116, OCTH 143, 201, 302, 303, 304, 305, 306, 307, 308, 311, 312, 315, 325, 401, 402, 435. Corequisite OCTH 417.
MANAGEMENT OF OCCUPATIONAL THERAPY SERVICES (4) Quality
466 Assurance, supervision, departmental operations (planning space, budgeting, scheduling, record keeping, safety, supply maintenance). Includes reimbursement issues and impact of current health policy. Pre/Corequisite: OCTH 403, 404.
OCTH LEVEL II FIELDWORK (6) Student Interns assigned full time to clinical
407/467
408/468
409/469

OCTH 410
470
hour special topic classes are required. Topics vary each term. Students choose a group elective or independent study in specialized area of practice in OT. Permission of Department Chair is necessary for independent study.
OCTH $417 /$ RESEARCH APPLICATIONS LAB I (1) Participation in the research process with clinical preceptor and/or a faculty tutor. Prerequisites: OCTH 143, 201, 302, $303,304,305,311,312,315,306,307,308,325,401,402,435$. Corequisite OCTH 404.

OCTH $418 /$ RESEARCH APPLICATION LAB II (1) Continuation of OCTH 417/477 Lab I. 478 Prerequisite: OCTH 417/477.
OCTH 435/ LEVEL I FIELD WORK C (1) A block of three to four hours per week is spent 440 in clinical site. Practicum experience for beginning skills in working with those with disabling conditions which require rehabilitation or those of a biomechanical nature. Prerequisites: OCTH 143, 201, 302, 303, 304, 305,311,312, 315, 306, 307, 308, 325. Corequisites: OCTH 401, 402. Permission of Department Chair is necessary.
OCTH 480 PROFESSIONAL SEMINAR (0) Capstone seminar designed for postbaccalaureate students to address interdisciplinary education program issues.
OCTH 492 THEORY \& PRACTICE LAB II (1) Demonstrations and practice with evaluation 493 techniques and treatment methods used by occupational therapists working with clients with neurodevelopmental or neurological dysfunction. Corequisite: OCTH 308/448.
OCTH 494/ THEORY \& PRACTICE LAB III (1) Lab that correlates with Occupational 495 Therapy Theory and Practice III: Biomechanical/Rehabilitative. Students observe and practice evaluation and treatment techniques covered in theory course. Corequisite: OCTH 402/462.

# Philosophy (PHIL) 

## Lower Division Course

PHIL 100

PHIL 290

PHIL 300

PHIL 301 HISTORY OF ANCIENT PHILOSOPHY (3) Greek philosophy from its beginnings to Neoplatonism. Emphasis is on Plato and Aristotle.
PHIL 302 MEDIEVAL CHRISTIAN PHILOSOPHY (3) A survey of the central medieval Christian philosophers from Augustine to Ockham.
PHIL 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.
PHIL 305
PHIL 306

PHIL 307
PHIL 308

PHIL 309

PHIL 311 in the medieval period.

PHIL 317 calculus; the structure of deductive systems.
PHIL 317 PHILOSOPHICAL ANTHROPOLOGY (3) The principal philosophical topics relating to the nature of the human being, especially life, intellection, freedom, personhood, and community. Fulfills the E/R\&S Focus elective. Prerequisite/ Corequisite of PHIL 100 and THEO 111.
PHIL 320 HISTORY AND PHILOSOPHY OF SCIENCE TO 1700 (3) Examination of the evolution of the idea of science through a close reading of the seminal writings on this subject from Aristotle to Descartes, focusing particularly on the different strategies that have been employed to achieve knowledge of the physical world together with the kindred question as to the kind of certitude that each strategy can hope to expect.
PHIL 321 ETHICAL BUSINESS DECISIONS (3) Case studies of several critical issues in business, analyzed according to the contemporary context and ethical principles. Fulfills the E/R\&S Focus elective. Prerequisite/Corequisite of PHIL 100 and THEO 111.

PHIL 379
PII.

MEDICAL ETHICS (3) Moral issues arising in health care delivery, including social policy as well as clinical problems. Fulfills the E/R\&S Focus elective. Prerequisite/Corequisite of PHIL 100 and THEO 111.
PHILOSOPHY OF ARTAND BEAUTY(AESTHETICS) (3) Principal theories of beauty and contemplation, of art and creative intuition, of truth and symbolism of works of art.
PHILOSOPHY OF WOMEN (3) Application of philosophical method to a contemporary issue. Historical survey of philosophers' conceptions of woman.
SPECULATIVE FEMINISM (3) Applications of feminist theory to problems in metaphysics, epistemology, and philosophy of human nature.
METAPHYSICS (3) Metaphysics is the science that investigates what it means to be or to exist. This course will examine the nature of metaphysics, and the role it has played in the history of philosophy. For majors and minors only.
AMERICAN IDEALISM (3) Exposition and evaluation of the background and aims of Royce, Hocking and Whitehead, with critical focus on their ethical-religious thought.
ITALIAN PHILOSOPHY (3) The main conceptual currents in the history of Italian philosophy through representative texts. The epistemological role of the imagination, as well as theories of history andpolitics, in such thinkers as Machiavelli, Vico, and Croce.
NATURAL LAW AND NATURAL RIGHT (3) Classical and modern texts by the great teachers of natural law and natural right; emphasis on pre-philosophic right, natural right and nature/cosmos, law vs. right, facts/values.
AMERICAN PRAGMATISM (3) A study of Pierce, James, Dewey and their followers.
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. Prerequisites/Corequisites: PHIL 100, THEO 111.
(3) An examination of four of the principal political philosophers of the Middle Ages: namely Augustine, Thomas Aquinas, William of Ockham and Marsilius of Padua, focusing on two central issues: the relation of church and state within the single entity "Christendom," and the problem of the relation of law and natural right.
ARISTOTLE (3) Study of the main philosophical works of Aristotle, with emphasis on his methodology and historic role.
PLATO (3) Study of the interpretation of selected dialogues of this great philosopher.
THOMAS AQUINAS (3) A study of Aquinas' principal philosophical texts, especially concerning the existence and nature of God, creation, the nature of the human being, and the purpose of human life.
HOBBES (3) A careful textual study of major works by Thomas Hobbes and a comparison and contrast of important themes in Hobbes with corresponding positions in other major philosophers (e.g., the nature of the Whole, human nature, natural right, civil association). works of Kant.
HEGEL (3) Introduction to the philosophical system of Hegel from the Phenomenology of Spirit. Emphasis on Hegel's method of philosophizing. Giambattista Vico's thought, culminating in Scienza Nuova. Themes include Vico's method, his critique of Cartesianism, his theory of history and his rethinking of natural law.
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, Prerequisites/Corequisites: PHIL 100, THEO 111.

PHIL 381 JOSIAH ROYCE (3) A study and critique of The Problem of Christianity by this prophet of secular Christianity.
PHIL 382 JOHN STUART MILL (3) A study of the philosophy of John Stuart Mill, the 19th century philosopher of utilitarian ethics and liberal political theory. This course attempts a thorough and critical examination of his ethical, political and religious thought. Prerequisite/corequisite: PHIL 100, THEO 111.
PHIL 391 HEIDEGGER (3) Study of Heidegger's great work, Being and Time, and of his later thought.

## Physics (PHYS)

## Lower Division Courses

PHYS 112 OUR UNIVERSE: COLOR AND IMAGES (2) Fascinating introductory course on light, color, mirrors, lenses, photographic film, lasers, and holograms. Corequisite: PHYS 113.
PHYS 113 OUR UNIVERSE: COLOR AND IMAGES LABORATORY (1) Laboratory required to accompany PHYS 112.
PHYS 114 OUR UNIVERSE: PHYSICAL SCIENCE (2) Survey of mechanics, heat, light, and atomic physics. Primarily for education majors. Satisfies science core requirement.
PHYS 115 OUR UNIVERSE: PHYSICAL SCIENCE LABORATORY (1) Laboratory required to accompany PHYS 114.
PHYS 116 OUR UNIVERSE: THE EARTH (2) An introductory course in earth science, Corequisite: PHYS 117.
PHYS 117 OUR UNIVERSE: THE EARTH LABORATORY (1) Laboratory required to accompany PHYS 116.
PHYS 118 OUR UNIVERSE: THE SKY (2) Introductory course in astronomy. Corequisite: PHYS 119.
PHYS 119 OUR UNIVERSE: THE SKY LABORATORY (1) Laboratory is required to accompany PHYS 118.
PHYS 122 OUR UNIVERSE: ENERGY SOURCES AND USES (2) An introductory course that surveys various forms of energy and studies practical, economical applications. Corequisite: PHYS 123.
PHYS 123 OUR UNIVERSE: ENERGY LABORATORY (1) Laboratory required to accompany PHYS 122.
PHYS 140 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. Prerequisite MATH 105.
PHYS 141 RADIOLOGIC PHYSICS II (2) A continuation of PHYS 140.
PHYS 160/ COLLEGE PHYSICS I, II (3 each semester) For premed, pre-dent, and others.
162 Mechanics, heat, sound, electromagnetism, optics, and modern physics. Corequisite: PHYS 161 and 163 laboratory. Prerequisite: Algebra.
PHYS 16I/ INTRODUCTORY PHYSICS LABORATORY I, II (1 each semester). These
163 laboratories accompany PHYS 160 or 170 and PHYS 162 or 172 lectures respectively.
PHYS 170 UNIVERSITY PHYSICS I (3) Calculus level course for chemistry, computer science, mathematics, applied physics, and physics majors. Mechanics, heat, sound. Corequisite: PHYS 161.
PHYS 171 EXPLORATIONS IN PHYSICS (1) Laboratory for physics majors to be taken with PHYS 170.

UNIVERSITY PHYSICS II (3) Continuation of PHYS 170. Electromagnetism, optics, and modern physics. Corequisite: PHYS 163

## Upper Division Courses

PHYS 206/ ADVANCED STUDY OF BASIC PHYSICS I, II (3 each semester). The broad 207 implications of the fundamental principles of general physics. Prerequisite: General Physics or equivalent.
PHYS 242 ELECTRONICS I (2) A.C. and D.C. measuring instruments. Basic analog circuits including power supplies, filters, transistors, and integrated circuit amplifiers and waveform generators.
PHYS 244 ELECTRONICS II (2) Digital components and circuits, microcomputer architecture and machine language programming, interfacing circuits.
PHYS 243/ ELECTRONICS LABORATORY I, II (1 each semester) Laboratory to accom245 pany PHYS 242, PHYS 244 respectively.
PHYS 320 WORKSHOP: EARTH SCIENCE (2).
PHYS 330 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.
PHYS 331 ATOMIC PHYSICS LABORATORY (1) Photoelectric effect, e/m for electrons, black body radiation, vacuum techniques, ionization potentials, Bragg diffraction, atomic spectra, x-ray spectra.
PHYS 340 NUCLEAR PHYSICS (3) Natural and artificial radioactivity, nuclear reactions, high-energy physics, and fundamental particles. Prerequisite: PHYS 330.
PHYS 341 NUCLEAR PHYSICS LABORATORY (1) Experiments in radioisotope techniques, nuclear particle counting, activation analysis, scattering, and reactor criticality.
PHYS 350 THEORETICAL MECHANICS I (3) Statics, equilibrium of rigid bodies, analysis of structure, friction, machines.
PHYS 351 THEORETICAL MECHANICS II (3) Dynamics, kinematics of particles and rigid bodies, conservation of energy and momentum, inertial matrices.
PHYS 360 ELECTROMAGNETISM I (3) Coulomb's law, Ampere's law, Faraday's law, Maxwell's electromagnetic equations in free space and material media. Course is given in vector notation.
PHYS 361 ELECTROMAGNETISM II (3) Continuation of PHYS 360.
PHYS 364 PHYSICAL OPTICS (3) Electromagnetic wave theory is used to derive the laws of optics: reflection, refraction, diffraction, Fresnel integrals, and theory of dispersion.
PHYS 365 PHYSICAL OPTICS LABORATORY (1) Experiments in Physical Optics, including diffraction, Michelson's interferometer, multiple beam interference, polarization, various experiments on the prism spectrograph, and holography.
PHYS 376 QUANTUM MECHANICS I (3) The mathematical formalism of quantum mechanics and its physical interpretation. Prerequisite: PHYS 330.
PHYS 377 QUANTUM MECHANICS II (2) Continuation of PHYS 376.
PHYS 382 THERMODYNAMICS (3) Thermodynamic variables and processes, internal energy of a system, first and second laws of thermodynamics, Carnot cycle, entropy and irreversibility.
PHYS 388 ASTROPHYSICS (3) The applied fields of astronomy and astrophysics.
PHYS 389 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.
PHYS 390 SPECIAL STUDIES (3) Area to be specified.
PHYS 395 PHYSICS RESEARCH (1-3) Area to be specified.
PHYS 397 SPECIAL READINGS (1-3) Area to be specified.
PHYS 398 PHYSICS THESIS (1).
PHYS 411 WORKSHOP: BASIC ELECTRONICS FOR TEACHERS (2).
PHYS 415 WORKSHOP: MODERN PHYSICS (2)

## Political Science (POLI)

## POLI 120

POLI 140 AMERICAN GOVERNMENT AND POLITICS (3) Introduction to the theory and practice of the American political system.

## Upper Division Courses

 CINCINNATI HISTORY AND POLITICS (3) (HIST 245, SOCI 246).POLI 220 GOVERNMENT AND POLITICS OF SOUTHEAST ASIA (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.
POLI 229 POLITICS OF CENTRAL AMERICA: NICARAGUA (3) Overview of contemporary history and politics of Central America focusing on theories of revolution, development, dependency, and democracy. Fulfills the E/R\&S Focus elective. Prerequisite/Corequisite to PHIL 100 and THEO 111.
POLI 240 STATE AND LOCAL GOVERNMENT (3) The structure, organization, and activities of state and local government.
POLI 242
URBAN AMERICA (3).
POLI 277 INTERNATIONAL RELATIONS (3) The theory of international relations, nationalism, imperialism, disarmament and arms control, diplomacy, collective security.
POLI 301 POLITICAL PHILOSOPHY (3) Survey of the major Western political philosophers, including Plato, Aristotle, Machiavelli, Hobbes, Locke, Rousseau, Marx and Mill.
POLI 302 LIBERALISM AND ITS CRITICS (3)
POLI 325 NAZI GERMANY (3) The rise and fall of Adolf Hitler, the Weimar Republic, origins of the NSDAP, the seizure of power, 1933, the "coordination" of Germany, the SS and Himmler, foreign policy, the persecution and murder of the Jews.
POLI 326 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.
POLI 340 THE PRESIDENCY (3) The nature and function of executive power in the American political system.
POLI 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.
POLI 347 CONSTITUTIONAL LAW (3) Detailed reading of American constitutional law cases; the role of the Supreme Court in American politics.
POLI 350 POLITICAL THEORY AND AMERICAN REGIME (3) Detailed reading of the writings of American statesmen from the founding to modern times with a view to understanding the United States as regime. Fulfills the E/R\&S Focus elective. Prerequisite/Corequisite to PHIL 100 and THEO 111 .
POLI 352
PRINCIPLES OF RESEARCH (3) (SOCI 352).
POLI 353 APPLIED RESEARCH METHODOLOGY (3) (SOCI 353).
POLI 359 CAMPAIGNS, ELECTIONS AND PARTIES (3).
POLI 373 U.S. AND THE THIRD WORLD (3) An examination of the historic estrangement between the U.S. and the Third World and attempts for contemporary cooperation.
POLI 374 UNITED STATES FOREIGN POLICY (3) A survey of American foreign policy since World War II with special emphasis on contemporary issues.
POLI 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.

POLJ 378 INTERNATIONAL ORGANIZATIONS (3) The United Nations, modern society of sovereign nations, international law, diplomacy, and peacekeeping.
POLI 379 POLITICAL DEVELOPMENT (3) A survey of the major theoretical approaches to the processes of political and social change.
POLI 390 SEMINAR: INTERNATIONAL RELATIONS (3) Senior comprehensive paper. Research methods.
POLI 391 SEMINAR: AMERICAN GOVERNMENT (3)
POLI 392 INTERNSHIP: POLICY ANALYSIS (6).
POLI 394 ADVANCED READING AND RESEARCH (Credit to be arranged.)
POLI 396 INTERNATIONAL AFFAIRS INTERNSHIP (3).
POLI 398 INTERNSHIP: CITY GOVERNMENT (3) (SOCI 398).
POLI 490 DIRECTED STUDY (Credit to be arranged.)

## Psychology (PSYC)

## Lower Division Courses

PSYC 100 EFFICIENT READING AND STUDY SKILLS (1) Critical reading comprehension, study skills, writing skills with emphasis on the integration of reading and writing, understanding what is read, and developing good study habits. Improve ability to interpret, analyze, and evaluate general reading material and specific course contents.
PSYC 101 GENERALPSYCHOLOGY (3) Basic psychological processes such as sensation, perception, motivation, learning, psychological measurements, personality development.
PSYC 121 GENERAL EXPERIMENTAL PSYCHOLOGY 1 (2) Introduction to the scientific method used in psychology, covering topics such as sensation, perception, learning, emotion, motivation. Fulfills science requirement for non-psychology majors, Corequisite: PSYC 122.
PSYC 122 GENERAL EXPERIMENTAL PSYCHOLOGY I LABORATORY (1)(Three laboratory hours per week.) Laboratory experiments demonstrating principles described in the lectures (PSYC 121). Corequisite: PSYC 121.
PSYC 123 GENERAL EXPERIMENTAL PSYCHOLOGY II (2) Introduction to the structure and function of the nervous system, which serves as the basis for the study of human behavior and psychopathology. Fulfills science requirement for non-psychology majors. Corequisite: PSYC 124. Prerequisite: PSYC 121/122.
PSYC 124 GENERAL EXPERIMENTALPSYCHOLOGY IILABORATORY (I)(Three laboratory hours per week.) Experiments demonstrating principles described in the lectures (PSYC 123). Corequisite: PSYC 123.
PSYC 141 HUMAN GROWTH AND DEVELOPMENT I: THEORY (2) (EDFD 141) The genetic study of growth and development. Influence of heredity and environment. Birth through middle childhood. Field experiences.
PSYC 142 HUMAN GROWTH AND DEVELOPMENT II: PRACTICE (2) (EDFD 142) Human growth and learning. Evaluation, observation skills, behavior problems. Preadolescent to adulthood. Field experiences.

## Upper Division Courses

PSYC 210 STATISTICAL TECHNIQUES (3) (EDCL 510) Basic statistics in psychology and education. Measures of central tendency and variability, correlational techniques, and experimental test of differences among groups.
PSYC 211 COMPUTER APPLICATIONS FOR THE SOCIAL SCIENCES (3) (SOCW 211) Introduction to the fundamentals of the use of personal computers and main frames. Examines measurements, data collection, data processing, statistical packages (SPSSX) and application, and word processing issues. Emphasis on basic knowledge for computer-based decision making and social science applications in applied settings.

PSYC 215 HUMAN LIFE CYCLE I: CHILD (3) Psychological, physiological, and social development of the child from conception to adolescence.
PSYC 221 EXPERIMENTAL PSYCHOLOGY I (2) Basic exploration of the scientific method as applied to psychology. Includes research design and appropriate statistical analyses. Prerequisites: PSYC 101, 210, 211. Corequisite: PSYC 223.
PSYC 222 EXPERIMENTAL PSYCHOLOGY II (2) Advanced exploration of the scientific method as applied to psychology. Includes research design and appropriate slatistical analyses. Prerequisite: PSYC 221. Corequisite: PSYC 224.
PSYC 223 EXPERIMENTAL PSYCHOLOGY I LABORATORY (1) Development of hypotheses, design and carry out psychological research, analyze data and interpret results. Corequisite: PSYC 221.
PSYC 224 EXPERIMENTAL PSYCHOLOGY II LABORATORY (1) Development of hypotheses, design and carry out psychological research, analyze data and interpret results. Corequisite: PSYC 222.
PSYC 231 DEVELOPMENTAL PSYCHOLOGY (3) (EDCL 231) Factors influencing man's life span. Application to stages of physiological maturation, developmental tasks, social learning, personality integration.
PSYC 232 CHILD PSYCHOLOGY (2-3) (EDCL 232/532) The genetic study of growth and development; hereditary and environmental factors; early and later childhood to puberty.
PSYC 233 ADOLESCENT PSYCHOLOGY (2-3) (EDCL 233) Interrelated physical, social, and moral development associated with youth and adolescence.
PSYC 261 SOCIAL PSYCHOLOGY (3) (EDCL 261, SOCW 261) The individual's personality, attitudes, and behavior in multi-individual situations.
PSYC 271 INTRODUCTION TO THE EMOTIONALLY DISTURBED CHILD (2) (EDSP 204) Symptoms of maladaptive behavior in youngsters. Evaluation of etiological factors. Personality disorders, services, facilities and agencies for treatment.
PSYC 274 PSYCHOLOGY OF ADJUSTMENT (2) (EDCL 274) Progressive stages of development in emotional growth. Factors of adjustment and maladjustment in education, social relations, and occupations.
PSYC 276 PSYCHOLOGY OF DELINQUENCY (2) (CJUS 276, CJUS 676, EDCL 276) Types and causes of juvenile delinquency together with brief case histories.
PSYC 277 ABNORMAL PSYCHOLOGY (3) (EDCL 277) Dynamics of the disturbed personality; symptoms, causes, treatment of psychoneuroses, psychoses, deviant personalities.
PSYC 285 PSYCHOLOGY OF RELIGION (3) The discipline which examines religiousness and the religious personality from a psychological perspective.
PSYC 300 HUMAN LIFE CYCLE II: ADOLESCENT - ADULT (3) (SOCW 300) Psychological, physiological, and social approach to development and experience from adolescence to death. (Interdisciplinary taught). Prerequisites: PSYC 101, 232 and SOCI 101.
PSYC 301 HISTORY AND SYSTEMS OF PSYCHOLOGY (3) Modern scientific psychology including its various schools and their backgrounds.
PSYC 310 MARRIAGE AND THE FAMILY (3) (SOCI 310, THEO 310) An interdisciplinary course taught simultaneously by a psychologist, sociologist and theologian, each looking at marriage and family from his/her perspective. In addition, married couple specialists from law and medicine present as guest speakers.
PSYC 321 INDUSTRIAL PSYCHOLOGY (3) (HRES 330, MGMT 321) Psychological bases for organizational decisions from employment to the maintenance of motivation and job satisfaction of people. Research, measurement and practical application are emphasized.
PSYC 365 PSYCHOLOGY OF WOMEN (3) (EDCL 365) Study of the biological, psychological, and social needs and issues of women.

PSYC 366 CRIME AND PERSONALITY (3) (CJUS 266, CJUS 566. EDCL 266/566) Root causes of crime in the individual and in the culture. Consideration of personality dynamics and treatment approaches.
PSYC 367 PSYCHOLOGY OF AGING (3) The interrelationship between biologicalcognitive personality and social changes associated with aging.
PSYC 379 PSYCHOLOGICAL AND ACHIEVEMENT TESTS (2-3) (EDCO 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.
PSYC 395 DIRECTED STUDY (Credit to be arranged.) Approval of department chair.
PSYC 409 GROUP DYNAMICS (3) (SOCW 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.
PSYC 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 psychopathology. Prerequisite: PSYC 221, 222.
PSYC 427 COGNITIVE PSYCHOLOGY (3) Examines the human information processing system. Topics include attention, perception, sensory memory, short-term memory, long-term memory, reasoning and problem solving.
PSYC 429 PSYCHOLOGY OF SENSATION AND PERCEPTION (3).
PSYC 431 CLINICAL \& RESEARCH ISSUES: THE SEVERELY MENTALLY DISABLED POPULATION (3) (SOCW 432) A survey of the chronic patients with severe emotional problems, etiology, diagnosis, and treatment issues.
PSYC 452 INTRODUCTION TO CLINICAL PSYCHOLOGY (3) Provides an understanding of the different types of activities typically engaged in by clinical psychologists.
PSYC 464 THEORIES OF PERSONALITY (3) (EDCL 464/564, PSYC 504) Description and evaluation of current personality theories. Upon approval of department chair.
PSYC 477 SPORTS PSYCHOLOGY (2-3) (EDCL 477) The course will deal with behavior and sports emphasizing the areas of personality and sports, anxiety and arousal in sports motivation, aggression, group dynamics, socialization and exercise.
PSYC 481 READINGS IN PSYCHOLOGY (1-3) Library research project assisted and supervised by staff member. Final oral exam. Seniors, graduate students only. Required research paper. Upon approval of department chair.
PSYC 490 UNDERGRADUATE PRACTICUM IN PSYCHOLOGY (1-3) 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.
PSYC 499 SENIOR COMPREHENSIVE REVIEW (3) Required of all majors. May substitute original research project upon approval of department chair. Prerequisites: senior standing and department chair approval.

## Graduate Courses

The following courses are required of all graduate students: PSYC 504, 506,511, 512, 520, 521 and 609.

PSYC 501 CONTEMPORARY THEORIES IN PSYCHOLOGY (3) Focus on concepts basic to current theory, research, and practice in psychology.
PSYC 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.
PSYC 503 ADVANCED EDUCATIONAL PSYCHOLOGY (3) (EDFD 503) Aimed at extending each student's knowledge of recent developments in psychology as applicable to the field of education.

PSYC 504 THEORIES OF PERSONALITY (3) (EDCL 464/564, PSYC 464) Advanced study regarding the structure and functions of personality as well as an evaluation of current personality theories.
PSYC 505 PROFESSIONAL PROBLEMS ANDETHICS IN PSYCHOLOGY (3) Professional issues in psychology including principles of ethics and their applications.
PSYC 506 ADVANCED SOCIAL PSYCHOLOGY (3) This course provides an overview of social psychological theories. Applications of those theories and relevant research will be examined in terms of clinical themes, industrial/organization themes, and multicultural themes.
PSYC 508 DIVERSITY (3) This is an applied course on cultural diversity. Study of various ethnic and cultural norms will be evaluated for their impact on clinical presentation. Appreciation and respect for cultural differences will be balanced with the importance of recognizing clinical needs within a variety of settings.
PSYC 511 ADVANCED STATISTICS I (2) (EDCL 511) Multivariate analyses emphasizing correlational (multiple regression, discriminant analysis, factor analysis, etc.) and experimental (ANOVA, MANOVA, ANOCOVA, etc.) approaches to experimental design and analysis. Prerequisite: PSYC 210 or its equivalent.
PSYC 512 ADVANCED STATISTICS II (2) Continuation of PSYC 511. Prerequisite: PSYC 511.
PSYC 520 COMPUTER STATISTICAL LANGUAGE I (1) Application and interpretation of statistical packages for use in psychological research. (Taken concurrently with PSYC 511.)
PSYC 521 COMPUTER STATISTICAL LANGUAGE II (1) Continuation of PSYC 520. Prerequisite: PSYC 520. (Taken concurrently with PSYC 512.)
PSYC 522 PERSONNEL PSYCHOLOGY (3) (HRES 915) Psychological dimensions of human resource functions in organizations. Job analysis, personnel selection, orientation and placement, performance evaluations, training and development, employment legislation and related topics with emphasis upon current research and literature.
PSYC 530 LEARNING AND MOTIVATION (3) (EDCL 530) Theories of learning and motivation mainly within the context of education. Three families of learning theory: mental discipline, stimulus-response conditioning, cognitive psychology. Particular emphasis upon the place of intrinsic motivation.
PSYC 532 PRINCIPLES OF GUIDANCE (2) A basic introduction to the area guidance and counseling services in the schools.
PSYC 533 COUNSELING PRINCIPLES AND TECHNIQUES (2-3) (EDCO 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.

PSYC 536

PSYC 553 MARKETING RESEARCH (3) (MKTG 902) Methods and techniques of marketing research; its use as a tool of management; cases in marketing research..
PSYC 580
CLINICAL PSYCHOPATHOLOGY (3) (EDCL 580) Study of descriptive and dynamic psychopathology via DSM-IV and psychodynamic theory. Clinical interviewing and diagnostic criteria.
PSYC 582 ASSESSMENT I: INTELLIGENCE (3) Theory, administration, analysis and report writing of individual tests of intelligence: Stanford-Binet, 4th Ed., WAIS-R, and WISC-III. Permission of department chair is necessary.
PSYC 585 ASSESSMENT II: PERSONALITY (3) The fundamental principles involved in the administration, scoring, analysis and evaluation of the MMPI-2, MMPI-A, MCMI-3, Bender-Gestalt, H-T-P and other tests are covered in this course. Permission of department chair is necessary.

Students in PSYC 590, 591, 592, and 593 are required to carry liability insurance purchased through the University.

PSYC 590 PRACTICUM; EXPERIMENTAL PSYCHOLOGY (3) Supervised experience in the student's area of interes/concentration. Master of Arts students only.
PSYC 591 PRACTICUM: CLINICAL PSYCHOLOGY (3) Supervised experience in the student's area of interest/concentration. Master of Arts students only.
PSYC 592 PRACTICUM: COUNSELING PSYCHOLOGY (3) Supervised experience in the student's area of interest/concentration. Master of Atts students only.
PSYC 593 PRACTICUM: INDUSTRIAL/ORGANIZATIONAL PSYCHOLOGY (3) A 120-hour field experience within the general area of I/O psychology. In some instances, students design and carry out complete projects in the service of organizations. In other situations, students participate in on-going activities in ways to help serve organizational needs. Permission of the department chair or I/O program director is required.
PSYC 607 ADVANCED DEVELOPMENTAL PSYCHOLOGY (3) Introduction to core conceptual issues in Developmental Psychology, the history of the field, the methods appropriate to the field, and current research in major topic areas, such as cognition, socialization, memory, perception. Format of the course will consist of lectures, discussion of empirical research articles and student presentations.
PSYC 609 LEARNING AND COGNITION (3) Analysis of the experimental literature and theories of learning and cognition, including conditioning, memory, attention, problem solving, and decision making.
PSYC 610 BIOLOGICAL BASES OF BEHAVIOR (3) A survey of the biological underpinning of human behavior with an empahsis on the structure and function of the human nervous system particularly as it pertains to processes such as learning, memory, emotions, and psychological disorders.
PSYC 615 GESTAL'T THERAPY (1) Introduction to theoretical foundations and therapeutic techniques of Gestalt therapy with particular emphasis on experiential learning.
PSYC 621 ADVANCED RESEARCH DESIGN AND ANALYSIS (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: PSYC 511.
PSYC 623 RESEARCH PRACTICUM (3) The research practicum will provide students with the opportunity to apply principles from statistics and research design courses to empirical research projects. Students will be assigned a research question at the beginning of the semester. Students will perform a brief review of relevant literature to the question and then design a program of studies to empirically test the question and generate and analyze data for the design. Students will be involved in ongoing discussion of strengths, weaknesses, challenges and ethical issues of each project.
PSYC 629 INTERVENTION TECHNIQUES: BEHAVIOR THERAPY (3) (EDCL 529) Theoretical and empirical bases of behavior therapy coupled with applied aspects of the therapcutic process. Projects using behavioral therapeutic techniques in a variety of settings with various clinical problems required.
PSYC 641 ASSESSMENT TECHNIQUESININDUSTRIAL/ORGANIZATIONALPSYCHOLOGY (4) The role of assessment in I/O psychology. Skill development in defining performance criteria and in jobanalysis, conducting assessment interviews, building and using employment tests, developing and carrying out surveys, assessing training needs, evaluating human resources, programs and meeting other assessment needs within the field of I/O psychology.
PSYC 643 SEMINAR: INDUSTRIAL/ORGANIZATIONAL PSYCHOLOGY (3) Group discussions of current topies in I/O psyehology, including both substantive issues and professional matters, especially ehics. Students are expected to carry major responsibility in the examination and discussion of topics at hand. Topics are selected both by students and instructor. Permission of the department chair or instructor is required. versy related to attempt to explain the motivation and behavior of people in organizations. Perception, expectation, motivation to work, job satisfaction, behavioral and cognitive approaches to management, employee involvement, group functioning, frustration and stress and related topics with emphasis upon current research and literature.
PSYC 646 PSYCHOLOGY OF THE EXCEPTIONAL CHILD (3) (EDSP 646) A typical 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.
PSYC 647 CLINICAL STUDY OF THE EMOTIONALLY DISTURBED CHILD (2) Introduces students to practical diagnostic and treatment procedures in their contact with the emotionally disturbed child.
PSYC 650 PROFESSIONAL DEVELOPMENT \& PRACTICUM I (3) This is a didactic and experiential class designed to socialize the students in a variety of applied areas within the area of clinical psychology. Students will become acquainted with information about practical aspects of psychological service provision, current professional and ethical issues relevant to that experience and the role of psychological organizations in one's development. Professional development addresses four general areas: clinical knowledge, clinical skills, self-knowledge, and research thinking.
PSYC 651 PROFESSIONAL DEVELOPMENT \& PRACTICUM II (3) Continuation of PSYC 650. Prerequisite: PSYC 650.
PSYC 685 ASSESSMENT III: PERSONALITY (3) Administration, scoring, and interpretation of the Rorschach and TAT. Permission of department chair is necessary.
PSYC 689 RESEARCH IN PSYCHOLOGY (3) Titles to be specified. Special research project supervised by a faculty member. Upon approval of department chair.
PSYC 699 MASTER'S THESIS (3-6).
PSYC 715 EARLY COGNITIVE DEVELOPMENT (3) (EDME 563) Review of theories of the nature and development of the human cognitive system and how it relates to developmental processes. Special attention is paid to Piaget's theory of cognitive development.
PSYC 716 CHILDHOOD PSYCHOPATHOLOGY (3) Identification, assessment and treatment procedures useful in working therapeutically with a range of psychological disorders experienced by children and adolescents.
PSYC 730 INTERVENTION TECHNIQUES: CONSULTING (3) Consultation is studied as a process service delivery role, especially as applied for the clinical psychologist. Both consulting as an individual and as part of a tearn will be studied as applied to a number of different areas; health care agencies; forensic agencies; academic agencies; athletics; and corporations. The emphasis on specific areas may change from time to time. Basics of grant writing, aspects of program evaluation, diversity issues, "counseling" vs. counseling and therapy, and ethical issues related to consulting will be explored. Students will be expected to become familiar with consulting research and theory as well as fundamentals of consulting practice.
PSYC 731 INTERVENTION TECHNIQUES: PSYCHODYNAMICS (3) Theoretical and applied aspects of psychotherapeutic process. Permission of department chair is necessary.
PSYC 747 INTERVENTION TECHNIQUES: MARITAL AND FAMILY THERAPY
(3) Theoretical framework regarding marriage and the family, current research data on marital and family dysfunctions, diagnostic and the treatment methods presented along with practical training in marital and family therapy.
PSYC 760 CLINICAL PRACTICUM III (3) Supervised experience in the student's area of interest/concentration.
PSYC 761 CLINICAL PRACTICUM IV (3) Continuation of PSYC 760. Prerequisite: PSYC 760.

PSYC 787 RESEARCH I (3) A culminating scholarly activity requiring a review of relevant literature, collection and analysis of data, and discussion of results. A formal proposal meeting and oral defense of the written dissertation are required.
PSYC 788
RESEARCH II (3) Continuation of PSYC 787. Prerequisite: PSYC 787.
PSYC 789 RESEARCH III (3) Continuation of PSYC 788. Prerequisite: PSYC 788.
PSYC 850 CLINICAL PRACTICUM V (3) Supervised experience in student's area of interest/concentration.
PSYC 851 CLINICAL PRACTICUM VI (3) Continuation of PSYC 850. Prerequisite: PSYC 850.
PSYC 896 RESEARCH AND CLINICAL ISSUES: SEVERELY MENTALLY DISABLED POPULATION (3) A non-traditional, knowledge-based introduction to research and clinical issues involved in working with severely mentally ill persons and their families. The course takes a broad-based approach to the overview of the field and addresses theory and practice methods in this area along with current research findings on intervention and approaches to treatment. Students will also be acquainted with the social, political and professional context in which mental health practice and research take place.
PSYC 897 INTERVENTION TECHNIQUES: THE SEVERELY MENTALLY DISABLED POPULATION (3) A knowledge-based introduction to the theory, research and clinical issues involved in working with severely mentally ill persons and their families.
PSYC 999 INTERNSHIP (6) Intensive, full-time supervised experience in a clinical setting approved by the department. Prerequisite: Matriculation in psychology doctoral program.

## Radiologic Technology (RADT)

## Undergraduate Courses

RADT 150 MEDICAL TERMINOLOGY (1) Medical word roots, stems, prefixes and suffixes. Common medical abbreviations.
RADT 152 NURSING PROCEDURES (1) Nursing concepts as applied to radiology. Basic patient care, communication skills, professional ethics, emergency procedures and isolation techniques.
RADT 160 RADIOGRAPHIC POSITIONING I (2) Didactic and laboratory instruction in routine radiographic positioning of the chest, abdomen, upper extremities, bony thorax, esophagus, stomach, large intestines, biliary and urinary systems. Corequisite: RADT 161.
RADT 161 RADIOGRAPHIC PRACTICUM I (1) Radiographic clinical competency training and evaluation, Tuesdays and Thursdays during the fall semester at an affiliate hospital ( 16 hours/week). Corequisite: RADT 160
RADT 162 RADIOGRAPHIC POSITIONING II (2) Didactic and laboratory instruction in routine radiographic positioning of the lower extremities, pelvis, cervical, thoracic and lumbar spine, skull and facial bones. Prerequisite: RADT 160 and 161; Corequisite: RADT 163.
RADT 163 RADIOGRAPHIC PRACTICUM II (1) Radiographic clinical competency training and evaluation, Tuesdays and Thursdays during the spring semester at an affiliate hospital ( 16 hours/week). Prerequisite: RADT 160 and 161; Corequisite: RADT 162.
RADT 165 RADIOGRAPHIC PRACTICUM III (3) Radiographic clinical competency training and evaluation during the summer months. First summer session, Monday and Wednesday at an affiliate hospital ( 16 hours/week). Second summer session, Monday through Friday at an affiliate hospital ( 40 hours/week). Prerequisite: RADT 162 and 163.

RADT 170 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.
RADT 172 PRINCIPLES OF RADIOGRAPHIC EXPOSURE II (2) Controlling and influencing factors of radiographic quality. Prerequisite: RADT 170.
RADT 180 RADIATION PROTECTION AND BIOLOGY (2) How to use ionizing radiation in a safe and prudent manner, maximum permissible doses, effects of ionizing radiation on living tissue.
RADT 250 GENERAL RADIOGRAPHY (2) Specialized radiographic positioning procedures including radiographic anatomy. Prerequisite: RADT 160-163; Corequisite: RADT 261.
RADT 260 SPECIAL PROCEDURES (2) Special radiographic procedures including angiography. Contrast media. Prerequisite: RADT 160-163; Corequisite: RADT 261.
RADT 261 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). Prerequisite: RADT 165.
RADT 263 RADIOGRAPHIC PRACTICUM V (2) Advance radiographic clinical competency training and evaluation, spring semester on Mondays, Wednesdays, and Fridays at an affiliate hospital ( 24 hours/week). Prerequisite: RADT 261.
RADT 265 RADIOGRAPHIC PRACTICUM VI (3) Continuation of RADT 263, summer semester, Monday through Friday (2 months, 40 hours/week). Prerequisite: RADT 263.

RADT 270 PRINCIPLES OF RADIOGRAPHIC EXPOSURE III (2) Radiographic technique charts and designs. Exposure conversion problems. Anode cooling and tube rating. Prerequisite: RADT 172; Corequisite: RADT 261.
RADT 280 PATHOLOGY (2) Study of diseases and the radiographic evaluation of the disease processes. Prerequisite: RADT 250 and 260.
RADT 292 IMAGING EQUIPMENT AND FILM PROCESSING (2) Defines the design, maintenance, and quality assurance of radiologic equipment and film processing equipment including the processing chemicals. Prerequisite: RADT 270; Corequisite: RADT 263.
RADT 294 RADIOGRAPHIC SECTIONAL ANATOMY (2) Gross sectional anatomy of the head, neck, thorax, abdomen, pelvis and vertebral column as they appear on diagrams, computed tomography and magnetic resonance scans. Prerequisite: RADT 160 and 162, BIOL 140-143, or Registered Radiographers by the A.R.R.T. who have graduated from an accredited school in Radiologic Technology.

Full schedule available in the program brochure. Call (513) 745-3358.

## Social Work (SOCW)

| Lower Division Courses |  |
| :--- | :--- |
| SOCW 101 | INTRODUCTION TO CRIMINAL JUSTICE: POLICE, COURTS \& COR- <br> RECTIONS (3) (CJUS 101) An overview of the history and legal basis of the <br> criminal justice system, its structures, its functions and interface with the individual |
| elements. |  |

SOCW 167 INTRODUCTION TO SOCIAL WORK (3) (SOCI 167, CJUS 167) The social welfare institution and social work. The three major purposes of social work: (1) enhancement of problem solving; (2) knowledge of systens that provide people with resources and services; and (3) the successful linkage of people with these systems.

## Upper Division Courses

SOCW 204 CONTEMPORARY SOCIAL PROBLEMS (3) A systematic study of major social problems in modern society.
SOCW 208 ECONOMICS OF SOCIETY (3) A study of basic principles essential to understanding economic problems from a social point of view and the policy alternatives society may utilize to contend with these problems.
SOCW 211 COMPUTER APPLICATIONS FOR THE SOCIAL SCIENCES (1-3) (PSYC 211) Introduction to the fundamentals of the use of personal computers and main frames. Examines measurements, data collection, data processing, statistical packages (SPSSX) and application, and word processing issues. Emphasis on basic knowledge for computer-based decision making and social science applications in applied settings.
SOCW 221 JUVENILE JUSTICE IN A CHANGING SOCIETY (3) (CJUS 321) A required course which emphasizes juvenile court philosophy and practices, prevailing case law, applicable federal and state legislation, current trends and development of standards, alternatives to incarceration, comparison of the treatment of the juvenile offender in the juvenile justice system as opposed to the adult system, anda historical overview.
SOCW 260 CURRENT ISSUES IN CRIMINAL JUSTICE (3) (CJUS 260) A required course which complements CJUS 101 Introduction to Criminal Justice: Police, Courts and Corrections; CJUS 103 Introduction to Corrections: Practice and Procedures; CJUS 621/321 Juvenile Justice in a Changing Society; and relates numerous current political and social issues to adult and juvenile corrections.
SOCW 261 SOCIAL PSYCHOLOGY (2-3) (PSYC 261, EDCL 261).
SOCW 264 SOCIAL CHANGE (3) (SOCI 264) Studying alterations in cultural patterns, social structure, and social behavior.
SOCW 265 OVERVIEW OF CONTEMPORARY CORRECTIONS (3) (CJUS 364, CJUS 664) Compares historical and contemporary methodologies, presents and criticues jail and prison programs, applies court decisions to current practices, and generally analyzes institutional and noninstitutional corrections in relation to today social and political realities. Staff and inmate rights and responsibilities are presented within the context of ethical and legal requirements.
SOCW 270 FAMILIES IN POVERTY (3) Analyzes the causes and consequences of poverty for families in America. Antipoverty policy responses are also considered.
SOCW 300 HUMAN LIFE CYCLE II: ADOLESCENT-ADULT (3) (PSYC 300) Psychological, physiological, and social approaches to development and experience from adolescence to death. Interdisciplinary. Prerequisites: PSYC 101, 232, and SOCI 101.

SOCW 307 CHILD WELFARE (3) (CJUS 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.
SOCW 310 FAMILY AND SOCIETY (2-3) (EDCL 210) Marriage preparation, partner selection, marital adjustment, family structure and functions, and marital dissolu-
tion. Current problems facing the family, macro-intervention strategies for problem resolution.
SOCW 313 LIFE-STYLES IN A CHANGING SOCIETY (2-3) An in-depth study of American culture and the effects it has upon the relationship of the individual to the social order; a look at societal child-rearing practices, autonomy, and self-actualization,

SOCW 315
SOCIAL INSTITUTIONS AS SYSTEMS (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 and in relationship to other societal institutions. Prerequisite: SOCW 167.
SOCW 316 SOCIAL POLICY AND CONTEMPORARY ISSUES (3) Existing social welfare policy in light of current social issues, developing trends in social welfare policy and their impact on existing human needs.
SOCW 318 TRENDS IN MODERN SOCIETY: RACE RELATIONS (3) (CJUS 318) Causes, effects, and forms of racial prejudice and stereotyping, social conditions and attitudes, individual and structural consequences are examined. Fulfills the Cultural Diversity Elective requirement.
SOCW 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.
SOCW 330 COMMUNITY ORGANIZING (3) A study of the theories, principles, and techniques of community organization with an emphasis on practical research.
SOCW 337 ADOLESCENT CRISIS (3) A study of issues and problems of the adolescent.
SOCW 352 RESEARCH METHODOLOGY (3) An in-depth study of the basic steps and processes in scientific inquiry.
SOCW 395 DIRECTED STUDY (Credit to be arranged.)
SOCW 402 CHILD ABUSE (2-3) 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.
SOCW 409 GROUP DYNAMICS (3) (PSYC 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.
SOCW 412 DYNAMICS OF OLDER ADULTS (3) A study of issues and problems relevant to older adults.
SOCW 415 THEORY AND METHODS OF SOCIAL WORK PRACTICE I: MICRO (3) Theories and bodies of knowiedge as basis for social work intervention. Values and skills associated with the practice of social work. Emphasis is placed on individuals, families, and groups. Prerequisites: SOCW 167, 300, 315; PSYC 232.
SOCW 416 THEORY AND METHODS OF SOCIAL WORK PRACTICE II: MACRO
(3) Knowledge and application of the fundamentals of social work practice, the problem-solving process, effective use of self as an agent of change. Emphasis is placed on organizations, communities, and society. Prerequisite: SOCW 415.
SOCW $417 /$ SOCIAL WORK FIELD INSTRUCTION (4) Students are provided with an
418 opportunity to work directly with clients in an existing social service agency under the supervision of a skilled practitioner. Prerequisite: SOCW 415, Corequisites: SOCW 419, 420.
SOCW 419/ SOCIAL WORK SEMINAR (2) Designed to provide the student with an

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$$ opportunity to integrate the knowledge and theory acquired in the classroom with the experiential learning gained from actual work experience.

SOCW 424 RESEARCH PAPER (1) A research paper is completed in a substantive area important to social work. Prerequisite: SOCW 352.
SOCW 432 RESEARCHAND CLINICAL ISSUES: SMD POPULATION (3) (PSYC431)
A survey of the chronic patients with severe emotional problems, etiology, diagnosis, and treatment issues.

## Sociology (SOCI)

## Lower Division Courses

SOCI 101 INTRODUCTION TO SOCIOLOGY (3) Social behavior within the context of group structure, society, and culture. Basic sociological terminology and methodology.

SOCI 167

SOCI 180

SOCl 232
SOCl 245
SOCI 246 and Social and economic adjustmen problans of this goup.
CINCINNATI HISTORY AND POLITICS (3) (POLI 211, HIST 245)
SOCI 250 RACIAL AND ETHNIC MINORITIES (3) Minority groups in contemporary United States. Social processes involved in dominant minority relations.
SOCI 262 WOMEN IN AMERICAN SOCIETY (3) Women in social, economic and structural (bureaucratic) settings, An examination of changing roles and status.
SOCl 264 SOCIAL CHANGE (3) (SOCW 264) Studying alterations in cultural patterns, social structure, and social behavior.
SOCI 269 POPULAR CULTURE (3) Critical perspectives on the production, interpretation, and effects of popular culture.
SOCI 285 MAGIC AND WITCHCRAFT (3) Mysticism and the supernatural in social context. The meanings and functions of magic and witcheraft within various cultural contexts.
SOCI 290 CRIMINOLOGY AND PENOLOGY (3) (CJUS 290) Causative theories of crime. Crimes and criminals in the context of behavioral systems. Policies and programs of legal treatment.
SOCI 292 JUVENILE DELINQUENCY (3) Multiple factors involved in delinquent behavior. Definition, extent, causation, and treatment.
SOCI 300 SOCIOLOGICAL THEORIES (3) European and American theorists. Origin, growth, and change of social order and the individual's place in society.
SOCI 310 MARRIAGE AND THE FAMILY (3) (PSYC 310, THEO 310) Sociological insights concerning marriage and family systems. Dating, love, sex roles, and parenting.
SOCI 316

SOCI 352 ation, socialization, and alienation are among the areas to be discussed.
PRINCIPLES OF RESEARCH (3) (POLI 352, POLI 353)
SOCI 353
APPLIED RESEARCH METHODOLOGY (3) Prerequisite: SOCI 352.
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.
SOCI 365 CLASS AND CLASS CONFLICT (3) (CJUS 265) Class, status, and power in social life. Systems of social inequality examined within a cross-cultural perspective.
SOCI 366 UTOPIAN COMMUNITIES (3) Course examines, in historical and contemporary settings, Utopian writings and actual attempts at establishing Utopian situations.

SOCI 375 SOCIOLOGY OF MEDICINE AND HEALTH CARE (3) Critical perspective on issues in the health status of populations and distribution of medical services in society.
SOCI 398 INTERNSHIP: SOCIAL SERVICE (3) (POLI 398).
SOCI 412 DYNAMICS OF OLDER ADULTS (3) The process and experience of aging in social, political, and economic context.
SOCI 495 DIRECTED STUDY (Credit to be arranged.)

## Spanish (SPAN)

## Lower Division Courses

SPAN 101 ELEMENTARY SPANISH I (3) An introduction to basic language skills emphasizing the acquisition of high-frequency vocabulary and the development of cultural awareness.
SPAN 102 ELEMENTARY SPANISH II (3) The second semester elementary course which is a continuation of SPAN 101. Prerequisite: SPAN 101 (unless waived).
SPAN 201 INTERMEDIATE SPANISH I (3) The first semester intermediate course which is a continuation of SPAN 102 with a particular emphasis on the development of more creative use of the language. Prerequisite: SPAN 102 (unless waived).
SPAN 202 INTERMEDIATE SPANISH II (3) A communicative-oriented course emphasizing reading and writing skills through the study of authentic materials dealing with the Hispanic world. The course incudes a comprehensive grammar review. Prerequisite: SPAN 201 (unless waived).

## Upper Division Courses

Prerequisite: SPAN 202 or its equivalent. Students MUST take at least one of the following before enrolling in other upper division courses: SPAN 300, 301, 302, 303, 304, and 306.

## For Non-native Spanish Speakers

SPAN 300 ADVANCED SPANISH (3) A language development course which emphasizes equally listening, speaking, reading, writing and cultural aspects.
SPAN 301 READINGS IN SPANISH (3) Readings from literary and nonliterary sources chosen to improve reading skills.
SPAN 302 SPANISH CONVERSATION (3) Designed for the development of speaking and listening skills through active participation by students. Discussions and activities are based on contemporary issues.
SPAN 303 SPANISH COMPOSITION (3) Designed for the development of both formal and informal writing skills. Types of writing include journal, letter, summary, and analytical.
SPAN 304 SPANISH VOCABULARY IN CONTEXT (3) Study of technical and functional vocabulary in selected situations not found in traditional textbooks.
SPAN 306 BUSINESS SPANISH (3) Development of the four skills in the context of the contemporary Hispanic business world by readings, discussions, and written practice. Emphasis on the terminology of commercial Spanish.
SPAN 350 SPANISH CIVILIZATION (3) Representative culture and history of Spain.
SPAN 351 LATIN-AMERICAN CIVILIZATION (3) Representative culture and history of Latin America.
SPAN 353 INTRODUCTION TO LATIN AMERICAN STUDIES (3) An introduction to Latin American Studies concentrating on historical, sociopolitical and cultural issues. Taught in English. Does not count towards major, minor or language certification in Spanish. Fulfills the E/R\&SFocus elective. Prerequisite/Corequisite to PHIL 100 and THEO 111.
SPAN 399 SENIOR PROJECT (1) Research for senior project.
SPAN 400 INTRODUCTION TO HISPANIC LITERATURE (3) An introduction to

SPAN 421
SPAN 422
SPAN 423
SPAN 427

SPAN 428
SPAN 429
SPAN 433
SPAN 436
SPAN 439
SPAN 440
SPAN 444
SPAN 445

SPAN 450

SPAN 495
SPAN 496
SPAN 497

SPAN 325/
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SPAN $326 /$
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SPAN $327 /$
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SPAN $328 /$
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SPAN 352/
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SPAN 415/
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SPAN 695
SPAN 696
SPAN 697
SPAN 700
literature with a chronological study of genres and movements and analysis of excerpts from representative authors.
SPANISH LITERATURE \& CIVILIZATION I (3) A chronological study of Spanish literature and civilization from medieval period through the 17 th century. SPANISH LITERATURE \& CIVILIZATION II (3) A continuation of SPAN 421 covering the 18 th and 19 th centuries.
SPANISH LITERATURE \& CIVILIZATION III (3) A continuation of SPAN 422 covering the 20 h century..
SPANISH-AMERICAN LITERATURE \& CIVILIZATION I (3) A chronological study of Spanish-American literature and civilization from the colonial period through the 18 th century.
SPANISH-AMERICAN LITERATURE \& CIVILIZATION II (3) A continuation of SPAN 427 covering the 19 th and early 20 th centuries.
SPANISH-AMERICAN LITERATURE \& CIVILIZATION III (3) A continuation of SPAN 428 covering the latter part of the 20th century.
SPANISH LITERATURE OF THE GOLDEN AGE (3) Representative authors and genres of the 16 th and 17 th centuries.
NINETEENTH-CENTURY SPANISH LITERATURE (3) Representative authors and works of romanticism, realism and naturalism.
TWENTIETH-CENTURY SPANISH LITERATURE (3) Representative authors and genres from the Generation of 1898 to the present day.
HISPANIC POETRY (3) Representative Spanish and Spanish-American poets. NINETEENTH-CENTURY SPANISH-AMERICAN LITERATURE (3) Representative authors and genres.
TWENTIETH-CENTURY SPANISH-AMERICAN LITERATURE (3)
Representative authors and genres.

## For Native Spanish Speakers and Teachers

HISPANIC LITERATURE (3) Analysis of excerpts from representative authors.

## For Non-Native and Native Speakers of Spanish

 DIRECTED STUDY: LANGUAGE (1-3) Independent study.DIRECTED STUDY: CULTURE/CIVILIZATION (1-3) Independent study.
DIRECTED STUDY: LITERATURE (1-3) Independent study.

## For Teachers and Prospective Teachers

HISTORY OF THE SPANISH LANGUAGE (3) Study of the evolution and development of the Spanish language from Latin to present day Spanish.
SPANISH LANGUAGE FOR TEACHERS (3) Study of the Spanish language designed to increase knowledge and competence through discussion and practice of language usage.
SPANISH VOCABULARY IN CONTEXT (3) Study of technical and functional vocabulary in situations of special interest to teachers and prospective teachers. Class projects include formation of vocabulary lists and lesson plans.
PHONETICS AND DIALECTOLOGY (3) Study of the phonetic system of the Spanish language, including transcription and identification of dialectical features. HISPANIC CULTURE (3) An intensive course focusing on contemporary cultural information about the Spanish speaking world and techniques for classroom implementation.
HISPANIC LITERATURE IN THE CLASSROOM (3) Study of strategies for integrating literature with language and culture in the secondary Spanish classroom. DIRECTED STUDY: LANGUAGE (1-3) Independent study.
DIRECTED STUDY: CULTURE/CIVILIZATION (1-3) Independent study.
DIRECTED STUDY: LITERATURE (1-3) Independent study.
GRADUATE RESEARCH: SPANISH (3) Research for the M.A.

## Statistics (STAT)

## Lower Division Courses

STAT 200 INTERMEDIATE BUSINESS STATISTICS (3) Descriptive statistics, sampling and statistical inference within the context of business applications. Simple and multiple regression, including residual analysis and multicollinearity problems. Additional topics may include analysis of variance and time-series forecasting models. Prerequisite: MATH 156 and INFO 301.

## Graduate Courses

STAT 801 MANAGERIAL STATISTICS (3) Descriptive statistics, statistical reference, linear regression, auto correlation analysis and forecasting models.
STAT 901
BUSINESS STATISTICS (3)
STAT 942 STATISTICS OF QUALITY IMPROVEMENT (3) A broad introduction to statistical tools relevant to business quality problems. Topics include control charts and process capability studies, simple and fractional factorial experimentation, the Taguchi Method, EVOP philosophy, and an overview of acceptance sampling. Prerequisites: STAT 801, MGMT 901. Recommended: MGMT 950.

## Theology (THEO)

## Undergraduate Courses

THEO 111 THEOLOGICAL FOUNDATIONS (3) The nature of revelation, religion, and reform within a religious tradition; the sources, method, and value of theological reflection and the ethical consequences for living in a world community.
THEO 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.
THEO 203 EASTERN ORTHODOX CHURCH (3) Detailed survey of the history and belief of the Orthodox Church.
THEO 206 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.
THEO 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 interreligious dialogue.
THEO 209 THE CHRISTIAN TRADITION I (3) A study of the treatment of major themes of God, Jesus, Church, sacraments, faith, spirituality from the first century through the end of the Middle Ages.
THEO 210 THE CHRISTIAN TRADITION II (3) A study of the treatment of themes mentioned in THEO 209 from the end of the Middle Ages to the twentieth century.
THEO 217 INTRODUCTION TO THE CHURCH FATHERS (3) (CLAS 345) The Fathers of the first five centuries. The Church's defense against pagans and heretics. Confrontation with the Empire. Development of doctrine.
THEO 221 CHRISTIAN VISION OF THE PERSON (3) Examines the issues of grace, sin, freedom both from an historical perspective and contemporary reflection.
THEO 222 CHRISTIAN LIFE AND CELEBRATION (3) Theology of the Christian life; liturgy, religious psychology, secular involvement, the Christian virtues, prayer, Christian community.
THEO 223 SACRAMENTS TODAY (3) Meaning of sacraments in general and Christian sacraments in particular. Historical and theological development of the seven ecclesiastical sacraments and their place in contemporary liturgical, pastoral, and spiritual renewal.

THEO 224 SAINTS AND HERETICS (3) Explores the relationship between heterodoxy and orthodoxy in the development of Christian doctrine.
THEO 225 HISTORY OF CHRISTIAN MONASTICISM (3) Designed to introduce the variety of forms of Christian piety and their influence on the development of the Western Christian tradition. Special attention to developments in Christian monasticism during the third, twelfth/hirteenth, sixteenth and twentieth centuries.
THEO 232 APPROACHES TOGOD (3) Divine transcendence and the possibilities of human knowledge and experience of God. Contemporary problems of belief, unbelief, atheism.
THEO 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.
THEO 234 THE REFORMATION (3) Protestant, Catholic, and "Anabaptist" attempts to revitalize a Christianity insufficiently Christian.
THEO 235 CHURCH IN THE WORLD (3) Study of how church, culture, and belief mutually influence the character of Christian belief in the United States and in other parts of the world.
THEO 239 THE CHURCH AND REVOLUTION (3) A study of the development of the Church's social teachings as they apply to political issues. Special attention to the revolutions and revolutionaries of modern times.
THEO 241 BIBLICAL GREEK (3) (GREK 241) Study of the language and theology of the Greek New Testament.
THEO 245 GOD, CREATION AND ECOLOGY (3) To better understand the environment and the harm being done to it. To better integrate Christian beliefs with environmental concerns.
THEO 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.
THEO 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.)
THEO 251 OLD TESTAMENT THEOLOGY (3) An introductory exploration of the theological issues and themes of the OId Testament from a Christian perspective.
THEO 253 PSALMS AND WISDOM LITERATURE (3) Sudy 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.
THEO 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.
THEO 258 THE BIBLE AND ANTI-JUDAISM (3) Critical study of anti-Jewish elements in the Bible and exploration of ways to interpret them and to address their implications.
THEO 261 WRITINGS OF ST. PAUL (3) A close reading of the Pauline letters within their social and historical situation; the contribution of Paul towards the formation of revolutionary conscicusness.
THEO 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.
THEO 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?
THEO 264 SYNOPTIC GOSPELS (3) Comparison of the basic theology of Mark, Matthew, and Luke with an analysis of the milieu out of which the gospel message arose and was transmitted.
THEO 265 GOSPEL OF MARK (3) Analysis of the Gospel of Mark in light of its historical, literary, and theological context.

THEO 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.
THEO 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?
THEO 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.).

THEO 276 HISTORY OF CHRISTIAN THOUGHT I (3)
THEO 277 HISTORY OF CHRISTIAN THOUGHT II (3)
THEO 278 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.
THEO 279 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.
THEO 282 THE JESUS SEMINAR (3) An investigation into the historical authenticity of the Jesus traditions through intensive group work and debate.
THEO 290 SEMINAR; CHRISTIAN DOCTRINE TODAY (3) A study of contemporary systematic issues or figures. (For majors and other qualified students.)
THEO 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.) Fulfills the E/R\&S Focus elective. Prerequisite/ Corequisite to PHIL 100 and THEO 111 .
THEO 304 AIDS: AN ETHICAL INQUIRY (3) Exploration of the ethical dilemmas rooted in the medical, social, political, and cultural reality of AIDS.
THEO 306 LIBERATION ISSUES AND THEOLOGY (3) Origins and development of the theology of the liberation movements of women, Latin Americans, blacks, and other marginalized groups.
THEO 310 MARRIAGE AND THE FAMILY (3) (SOCl 310, PSYC 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.
THEO 311 FAITH AND JUSTICE (3) Relationship between Christian faith and social justice viewed in Christian tradition and recent thought and documents of the Church. Fulfills the E/R\&S Focus elective. Prerequisite/Corequisite to PHIL 100 and THEO 111.

THEO 312 CHRISTIAN HEALTH CARE 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. Fulfills the E/R\&S Focus elective for Fall 1996 only.
THEO 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. Fulfills the E/R\&S Focus elective. Prerequisite/Corequisite to PHIL 100 and THEO 111.
THEO 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. Fulfills the E/R\&S Focuselective. Prerequisite/Corequisite to PHIL 100 and THEO 111.

THEO 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?
THEO 321 MEDITATION: THEORY AND PRACTICE (3) Exploration of contemporary theories of meditation and their practical implications for Christian spirituality and prayer.

THEO 322 BLACK CHURCH IN THEOLOGY (3) An interior view into the Black theological experience. Need to look at theology froma Black perspective. Roots of the Black Church as its response to bigotry of white churches and society.
THEO 324 RUSSIAN RELIGIOUS MIND (3) A history of Orthodox Theology from the Byzantine Empire through the Middle Ages up to the present age.
THEO 325 CONTEMPORARY SPIRITUALITY (3) Introduction to contemporary Christian approaches to creation spirituality, modern mysticism, conversion, and a spirituality of wholeness.
THEO 326 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.
THEO 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.
THEO 331 FAITH AND DOUBT IN MODERN LITERATURE (3) Study of questions of religious faith and doubt in contemporary western literature.
THEO 333 JESUS IN FAITH AND FICTION (3) Modern fiction as it illuminates and is illuminated by the study of the Jesus of the gospels and of contemporary Christology.
THEO 334 PROPHETS OF NONVIOLENCE (3) Exploration of the life and teachings of Dorothy Day, Mohandas Gandhi, and others and their implications for contemporary spirituality and theology.
THEO 340 AMERICAN CHURCH AND PUBLICISSUES (3) Examination of the relationship between the church and political life in America, including the study of different public issues and different proposals for their solution.
THEO 341 CONTEMPORARY PROTESTANT THEOLOGY (3) Study of major Protestant theologians of the twentieth century.
THEO 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.
THEO 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.
THEO 346 HUMAN COMMUNITY: NEEDS AND RIGHTS (3) Study of the theological and socioeconomic foundations of human community and of the community and of the concepts of justice and human rights. Fulfills the E/R\&S Focus elective. Prerequisite/Corequisite to PHIL 100 and THEO 111.
THEO 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.)
THEO 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.)
THEO 355 ISLAM (3) An historical and topical survey of the origins and development of Islam. Special emphasis on the emergence of Sunnism, Shiism, and Sufism as three distinct yet interrelated schools of thought and practice in Islam.
THEO 364 RELIGION IN AN AGE OF SCIENCE (3) Study of the recent findings of contemporary science concerning creation and human nature and the implications of these findings for Christian theology.
THEO 380 CATHOLICITY, PLURALISM AND DISSENT (3) Critically examines what it means for the church to be "catholic" in light of the many alternative conceptions of Christian existence and the current tension between some segments of the American church and the Vatican.
THEO 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.

THEO 390 SENIOR SEMINAR: IDEAS \& METHODS (3) Review of different theological methodologies and the ir implications for the church and for the doctrines of Good and Christ.
THEO 403 PERSONAL ETHICS (3) An examination of one's personal ethical outlook in light of the values and beliefs of the Christian community and current debates in ethics. Special emphasis on conscience and issues of commitment and adult moral development.
THEO 495 DIRECTED STUDY (Credit to be arranged.)

## Graduate Courses

THEO 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.
THEO 503 NEW TESTAMENT ETHICS (3) A critical examination of the language and phenomenon of power in the New Testament in order to interpret the forces determining our existence and the possibilities of human liberation.
THEO 504 FOUNDATIONS OF SCRIPTURE STUDY (3) Introduction to the literacy, historical, and religious context of the Hebrew Bible.
THEO 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. Presentday dialogue with the Gospel's fundamental theological questions.
THEO 506 FOUNDATIONAL ISSUES IN CHRISTIAN ETHICS (3) An introduction to Christian ethics, exploration of basic methodological questions, and discussion of selected contemporary issues.
THEO 513 ORAL, WRITTEN AND ELECTRONIC GOSPEL (3) Investigation of the oral and written transmissions of the Christian message in the face of the new demands of the electronic age.
THEO 520 SURVEY OF CHRISTIAN DOCTRINE (3) An introduction to the evolution of Christian thought in four areas of theology: the nature of God. the person of Christ, the nature of humanity, and the structure and mission of the church.
THEO 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.
THEO 515 PROPHETIC FAITHIN 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,
THEO 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.
THEO 518 EXILIC AND POST-EXILIC PROPHETS (3) Study of the historical setting, the literary styles, and the religious concerns of the prophets Jeremiah, Ezekiel, and Second Isaiah.
THEO 530 CONTEMPORARY CHRISTOLOGIES (3) A study of various systematic approaches to the mystery of Christ and specific Christological models.
THEO 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).
THEO 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.
THEO 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.
THEO 540 MODERN CATHOLIC SOCIAL TEACHING (3) Papal and episcopal wocial teaching since Leo XIII (1878). Includes employer-employee relations, poverty, democracy, socialism. Church-State relations, economics, human rights of all kinds.

THEO 545 MORAL THEOLOGY SINCE VATICAN Il (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.
THEO 553 PSALMS AND WISDOM LITERATURE (3) In-depth study of the prayers used by lsrael in public and private worship; and of the Wisdom literature of lsrael, with emphasis on Job, Proverbs, Ecclesiastics, and Sirach.
THEO 559 CHRISTIAN SPIRITUALITY: PAST AND PRESENT (3) History of Christian spirituality and themes of contemporary spirituality.
THEO 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.
THEO 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.
THEO 567 DIALOGUE AND ECOLOGY (3) Review of present-day efforts of Christians to develop an ecological theology and exploration of how contemporary Buddhists are reinterpreting their tradition to show how Buddhism has special resources for an ecological consciousness and ethic.
THEO 570 PROCESS THEOLOGY (3) Evaluation of the use that contemporary theologians are making of process philosophy to reinterpret Christian tradition.
THEO 573 CATHOLICITY, PLURALISM AND DISSENT (3) Critically examines what it means for the church to be "catholic" in light of the many alternative conceptions of Christian existence and the current tension between some segments of the American church and the Vatican.
THEO 581 FAITHAND DOUBT IN MODERN LITERATURE (3) Explanation of attitudes of faith and doubt in significant works of modern literature, philosophy, and theology.
THEO 583 CHRISTIAN INITIATION (3) Begins with an analysis of Christian conversion against the background of contemporary theology and psychology. Explores the meaning of baptism, confirmation and penance as related to Christian Initiation.
THEO 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.
THEO 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.
THEO 612 INDIVIDUALISM AND THE COMMON GOOD (3) Study of American individualism and its ethical implications in the light of the work of Robert Bellah and others.
THEO 657 WOMEN MYSTICS (3) Studies the influence of religious women throughout the history of Christianity through a reading of women's mystical treatises.
THEO 666 BOOK OF REVELATION (3) Comparison with other apocalyptic and political thinking of its time. Subsequent use in history of Church and culture.
THEO 672 THEOLOGY AND CULTURE TO 1400 (3) A historical review of the development of doctrine during the ancient and medieval periods as contextualized by eastern and western Christianity. Themes to be explored include Christology, mysticism, ecclesiology, and the development of orthodoxy.
THEO 674 THEOLOGY AND CULTURE SINCE 1700 (3) Traces the interaction of Christian thought and modern consciousness from the eighteenth century to Vatican II. Special attention to the challenges posed to Christian theology by the rise of historical consciousness, the discoveries of the natural sciences, and the development of modern philosophy and psychology.
THEO 695 SPECIAL STUDY (3).
THEO 699 MASTER'S THESIS (6).

## University Studies (UNST)

UNST 100 EPLURIBUS UNUM (1) Introduces students to the opportunities cultural diversity presents, and to the issues of stereotyping, prejudice and discrimination and their relation to the exercise of power in American society. Fulfills the Cultural Diversity Elective requirement.
UNST 30) SERVICE LEARNING IN NICARAGUA (3) An interdisciplinary course that is a component of an immersion semester of study in Nicaragua. The guided service experience functions as the medium through which learning occurs. Fulfills the E/R\&S Focus elective. Prerequisite/Corequisite to PHIL 100 and THEO 111.


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University Counsel
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Director for Athletics
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Director for the Xavier University Conference
Center and Xavier Consulting Group

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(Acting) Director of Diversity
Director of Personnel Services

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Dean, College of Social Sciences
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Dean, College of Arts \& Sciences
CAROL H. RANKIN (1984)
BA, MA, PhD (University of Houston)
Associate Academic Vice President
MICHAEL A. WEBB (1997)
BA, MA, PhD (University of Ilinois)
Dean, College of Business Administration

SUSAN G. WIDEMAN (1979)
BS, MBA (Xavier University)
Dean, Center for Adult and Part-time Students
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AS, BLA (Xavier University)
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Director of Auxiliary Services and Support
THOMAS J. CUNNINGHAM (1984)
CPA, BS, MBA (Xavier University)
Associate Vice President for Financial Administration
ANDREW D. E. GEPHARDT (1996)
BS (Marquette University)
Manager of University Bookstore
DORINDA S. GILES (1990)
BS (Northern Kentucky University)
Director of Information Systems \& Services

MICHAEL F. GRDINA (1991)
BSBA, CPA, MBA (Xavier University)
Assistant to the Vice President for Financial Administration

JAMES J. LANDERS (1980)
BS (University of Cincinnati)
Director of Physical Plant
KATHLEEN M. RIGA (1978)
BA, MBA, (Xavier University)
(Acting) Director of Diversity
Director of Personnel Services

The date mentioned in parenthesis is the date of first appointment at Xavier.

# Spiritual Development Division 

J. LEO KLEIN, S. J. (1970)

Litt B, MA, MA, PhD (Fordham University)
Vice President for Spiritual Development

EUGENE J. CARMICHAEL, S. J. (1979)
BS, MEd, MDiv (Loyola University Chicago)
Associate Vice President for Spiritual
Development
CHRISTINE M. POTTER (1992)
BA, MEd (Xavier University)
Director of Campus Ministry
GEORGE W. TRAUB, S. J. (1972)
Litt B, MA, PhD (Cornell University)
Director of lgnatian Programs

BENJAMIN J. URMSTON, S. J. (1971)
AB, MA, MRE (Loyola University Chicago)
Founding Director of Peace and Justice Programs

## JEROME WITSCHGER (1996)

$A B, M A, M A$ (University of North CarolinaChapel Hill)
Managing Director of Peace and Justice Programs/Dorothy Day House

# Student Development Division 

RONALD A. SLEPITZA (1993)
BA, MA, PhD (University of Maryland)
Vice President for Student Development

SYLVIA A. BESSEGATO (1985)
BS, MS (Indiana State University)
Associate Vice President for Student Development - Dean of Students

LUTHER SMITH (1992)
BA, MA, MTS, PhD (Ohio University)
Executive Director of Student Services

## University Relations

## MICHAEL J. GRAHAM, S. J. (1989)

BSS, MA, MA, MDiv, PhD (University of Michigan)
Vice President for University Relations

EDMUND L. FRANCHI (1990)
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BA, MA, PhD (University of Michigan)
Director of Radio and General Manager,
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KELLY A. LEON (1996)
BA, MA (Northwestern University)
Director for Media Relations and
Spokesperson for University

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FRED P. SANSONE (1996)
BA (University of Cincinnati)
Director of Gift and Estate Planning
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Executive Director, Alumni Association
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BA, MS (Southern Illinois University)
On-Campus Emplopyment Coorclinator'
Career Services
GREG J. AMODIO (1995)
BS, MS (Queens College)
Assistant Director of Marketing, Athletics
MICHAEL C. ARMOGIDA (1995)
BBA (University of Cincinnati) User Education Coordinator and Webmaster

DAVE ARMSTRONG (1996)
BS, MA (Ball State University)
Strength and Condition Coach
MARVIN R. ASBROCK (1985)
BBA (University of Cincinnati) Business Affairs Manager, WVXU-FM
LAWRENCE D. ASHCRAFT (1990)
Special Project Director, WVXU-FM
DAVID A. ATKINSON (1990)
BS (Georgia Institute of Technology)
Network Systems Administrator, ISS
MELANIE BALCOMB (1995)
BS, MS (Trenton State University)
Head Woman's Basketball Coach
ANDREW J. BARRY (1988)
BBA, MBA (Xavier University)
Assistant to the Assistant Athletic
Director for Business
JEFFREY BATTLE (1994)
BS, MEd (University of Delaware)
Men's Assistant Basketball Coach
ROBERT BAUMILLER, S. J. (1995)
BS, STB, PhD, PhL (St. Louis University)
Associate Dean for Health Education
Programs, Professor of Biology
EUGENE L. BEAUPRÉ (1974)
BS, MA (Xavier University)
Director, Community Relations
LISA BECKELHIMER (1997)
AA, BA, MA (Northern Kentucky
University)
Writer, Marketing \& Public Relations
CYNTHIA BELLINGER (1991)
BS, MA (Ohio State University)
Associate Director of Student Activities
SUSAN BENSMAN (1978)
BS (Xavier University)
Senior Program Monager, XMCG
RICHARD J. BERES (1988)
$\mathrm{BEd}, \mathrm{MEd}, \mathrm{PhD}$ (University of Toledo)
Manager, Center for Academic Computing

JOHN BILLERMAN (1991)
BS, MBA (Xavier University) Coordinator, Academic Computing
OLIVER W. BIRCKHEAD III (1996)
MEd, EdD (University of Cincinnati)
Director, Health and Counseling
ROBERT W. BIXBY (1994)
BS, MS (Mankato State University)
Assistant Director/Programming
National Alumni Association
MICHAEL E. BOBERG (1993)
BA (University of Cincinnati)
Operations Assistant/Music, WVXU-FM
LOUIS A. BONACCI, S. J. (1994)
BA, MDIV, STL (Gregorian University of Rome)
Coordinator, Pastoral Ministry in Residence Halls
CONSTANCE J. BONVELL (1977)
ABA, BSBA (Xavier University)
Production Control Technician, ISS
MARIANNE M. BORGMANN (1986)
BA, MEd (Xavier University)
Assistant Director of Admission
JAMES D. BRODZINSKI (1993)
BFA, MA, PhD (Ohio University)
Associate Professor of Management,
Minerva Professor of Health Safety
Management, Acting Chair of the Depart-
ment, Associate Dean, College of Business Administration

ELIZABETH L. BRONSIL (1978)
BS, MEd (Xavier University)
Director of Montessori Teacher Education
KAREN L. BURK (1982)
BA, MEd (Xavier University)
Director, Advancement Services
JENNIFER BUSH (1993)
BS, BA, MEd (Xavier University) Assistant to the Director of Graduate Services
ROBERT W. BYLES (1996)
BA (University of Cincinnati)
Application Development Manager, ISS
PAUL H. CALME (1992)
AB, MA (Xavier University)
Director, Financial Aid
W. ALLEN COLE III (1989)

BA, MEd (Xavier University)
Associate Registrar
SUZETTE D. COMBS (1996)
BA (Morehead State University) Coordinator of Pre-Professional Health Achvising

JANE CONZETT (1993)
BA, MA (University of Northern Iowa) Interim Coordinator of English as a Second Language

JANET E. COSTA (1995)
ABA (Michiana College of Commerce)
Account Executive, WVXU-FM
ROBERT COTTER (1980)
BA, MEd (Xavier University)
Coordinator of Instructional Media Services
MICHAEL COUCH (1980)
AS, BLA, MS (Xavier University)
Director of Safety and Security
LILA S. COX (1996)
BS, MPA, PhD (University of Cincinnati)
Director of Grant Services

## JAY R. CRAWFORD (1986)

Broadcast Engineer, WVXU-FM
TRICIA M. CULLOP (1996)
BLA (Purdue University)
Women's Basketball Assistant Coach
WILLIAM L. CUSTER (1986)
BA, MDIV, MA (Trinity Evangelical
Divinity School)
Data Base Administrator/Analyst, ISS
CHRISTINE M. DACEY (1980)
BS, MA, PhD (University of Ottawa)
Professor of Psychology
Director of Psychological Services Center
CRYSTAL DAHLMEIER (1981)
BS, MED (Xavier University)
Pre-primary Lead Teacher, Montessori School, Adjunct Instructor
MICHAEL DAVENPORT (1997)
BS, JD (University of Cincinnati)
Men's Basketball Assistant Coach
JOHN T. DAVIS, JR. (1991)
BSBA (Xavier University)
Staff Accountant
FLOYD D. DEATON, JR. (1990)
BS (West Liberty State College)
Head Volleyball Coach,
Assistant Compliance Officer
CARL DENNEY(1989)
BLA (Xavier University)
Assistant Director of Safery and Security
CARL E. DICKHAUS (1986)
BSBA (University of Cincinnati)
Systems Software Manager
PAMELA J. DUNN (1989)
Manager for Membership Support, $W V X U-F M$

THOMAS P. EISER (1984)
BA (Xavier University)
Assistant Athletic Director for Media Relations and Sports Information Director
JONATHAN M. ENDRES (1990)
BA (Xavier University)
Programmer/Analyst, ISS
LINDA A. ENDRES (1972)
Senior Production Control Technician, ISS
JOHN N. FELTEN S. J.
HAB, PhL, AM, STL, BA, MA (Oxford University)
University Archivist
AVA JEAN FIEBIG (1994)
BA. MS (Mankato State University)
Director of Residence Life
ROSE ANN FLEMING (1982)
BA, MA, MEd, MBA, JD, PhD
(Miami University)
Coordinator of Academic/Athletic Advising
DAVID FLUKER(1996)
BS, MA, ATC, LAT (Michigan State
University)
Athletic Trainer
W. LEE FORBES (1986)

BA, MBA (Xavier University)
Progranmer Analyst II, ISS
GINGER K. FULTON (1992)
BS (The Ohio State University)
Associate Director of Athletics
MATTHEW T. GAMBER, S. J. (1997)
BA, MA, MDiv, STS, MSJ (Northwestern University)
Assistant Director for Media Relations
GREG L. GANGER (1995)
BS (Ball State University)
Studio Manager of the TV Center
JILL E. GIETZEN (1989)
Program Coordinator for the Executive MBA Program
KIMBERLIE L. GOLDSBERRY(1996)
BS, MA (Bowling Green State University)
Associate Director of Student Services for
Leadership and Orientation
MARILYN VOLK GOMEZ (1979)
AA (Xavier University)
Coordinator, Nursing Student Services
CELESTINE GOODLOE (1984)
BS, MS (Miami University)
Associate Director of Admissions
ALISA R. GREEN (1997)
BA, MS (The American University)
Assistant to Director of Graduate Programs in Health Services Administration

MONIQUE A. GREENE (1994)
BLA (Xavier University)
Women's Assistant Basketball Coach
HELEN D. GROTHAUS (1989)
BS (Xavier University)
Director, Fowndation \& Corporate Relations
SHAWN HAMILL (1995)
BA, MEd (Xavier University)
Assistant Director of Intramural and Club Sports
KATHERINE S. HAMMETT (1991)
BA, MS (Miami University)
Director, Inte mational Student Services
ROBERT P. HANNEKEN (1993)
BFA (University of Cincinnati)
Sales/Development Manager, WVXU-FM
MICHAEL C. HANSON (1986)
Student Accounts Manager
JACQUELINE HARTMAN (1991)
BLA (Xavier University) Assistant Director of Admission
JOHN P. HEIM, S. J. (1975)
BA, MEd (Xavier University)
Director, Parent Relations
Director, Piano \& Guitar Series
MICHAEL J. HERMANN (1993)
BA, MA (Kent State University)
Associate Director of Athletics
JACK HERMANS (1989)
BS, MEd (Xavier University)
Head Men's Soccer Coach
'THOMAS B. HERZOG (1981)
BS (Northern Kentucky University)
Senior Accountant
VIRGINIA R. HEWAN (1985)
AA, BLA, MEd (Xavier University)
Director of Certification, Education
ROBERT R. HILL (1995)
BS, MA (Syracuse University) Eclitor, Marketing and Public Relations
STEVEN L. HIRSCHBERG (1993)
BA, BA, MA (University of Cincinnati)
News Assistant, WVXU-FM
PATRICIA J. HOFFMAN (1996)
BA (Northern Kentucky University)
Graphic Designer, Marketing \& Public Relations

JEFF HUTTON (1993)
BS, MEd (Xavier University)
Director of Secondary Education
DORIS S. JACKSON (1982)
BS, MA (Atlanta University)
Director of Academic Advising and Summer
Academic Bridge Program

ELAYNE M. JACKSON (1996)
BA (Xavier University)
Writer, Marketing \& Public Relations
JAMES W. JACKSON (1993)
BA (Edgecliff College)
Regional Director of Development
MEGAN HANNAN JACKSON (1996)
BA (Xavier University)
Marketing Coordinator
KIMBERLY JEFFERS (1995)
BA, MSA (Central Michigan University) Associate Director of Financial Aid
M. JODY JENIKE (1989)

BS, MEd (Temple University)
Head Trainer
VICKIE P. JONES (1984)
BA, MA (Central Michigan University)
Director for Aclministration and
Public Affairs, WVXU-FM
MARY LYNN JUNKER (1973)
Director of Special Events and Protocol
JAYNE KATHMAN (1989)
BS, MEd (Xavier University)
Teacher, Montessori School
AARON B. KELLLENBERGER (1995)
BS, MA (Ohio University)
Assistant Director of Actmission
EILEEN M. KEMPF (1994)
AA (Xavier University)
COTA/L (Adult Health Careers Program)
Lab Technician, Occupational Therapy
THOMAS P. KENNEALY, S. J. (1969)
MA, STL, PhL, MAT (Indiana University)
Associate Dean, College of Arts \& Sciences and College of Social Sciences
WILLIAM F. KING, S. J. (1973)
AB, MA, PhL, STL, STD
(Catholic University)
Associate Director of Alumni Relations
MARY KATHERINE KOCHLEFL (1995)
BA, MA (Indiana University)
Research Analyst, Development
BENJAMIN A. KREMER (1994)
BSBA (Xavier University)
Coordinator of Admission Systems and Research

LORI A. LAMBERT (1987)
BA, MA, MEd (Xavier University)
Associate Director of Residence Life
SUZANNE M. LEIKER (1986)
BSBA, MBA (Xavier University)
Payroll and Disbursements Manager

KEVIN M. LEWIS (1996)
BA (Xavier University)
Studio Manager, TV Center
JANE S. LINK (1988)
BS, MEd, EdD (University of Cincinnati)
Director of Academic Advising and Recruiting
DALLAS T. LOWER (1993)
BS, MS (Naval Postgraduate School)
Director of MBA Adinission
CYNTHIA LOWMAN (1995)
BS, MS (Miami University)
Residence Hall Director
PEARL C. MARDIS (1990)
Manager, Membership Fund Drives, WVXU-FM

MICHAEL A. MARTINI (1987)
BA, MEd (Xavier University) Producer/Program Host, WVXU-FM
MAUREEN B. MATHIS (1990)
BS, MEd (Xavier University)
Assistant Director of Admission
DALE J. MATTHEY (1990)
Manager of Printing Services
NAN J. McCART (1996)
BA (Xavier University)
Regional Director of Development
CONNIE MCCARTHY(1995)
BS (Miami University)
Women's Golf Coach
KATHLEEN McCLUSKY (1994)
BS MEd (Xavier University)
Director of Cooperative Education Program and Academic Advisor, College of Business Administration

ROSEMARY McCULLOUGH (1993)
BS, MEd (Xavier University)
Director of Multicultural Affairs
KATHLEEN McNAMEE (1996)
BA (Bowling Green State University)
Assistant Director of Financial Aid
MICHAEL MEIER (1994)
BS, MA, MSW (University of Kentucky)
Counselor, Health and Counseling
RICHARD C. MENKE (1989)
BS (University of Kentucky)
Grounds \& Structural Maintenance Supervisor

GREGORY MEYER (1986)
Manager of Engineering \& Support Services
MARY KAY MEYER (1995)
BA, MEd (University of Louisville)
Director of Weekend Degree Program

JAMES W. MILLER (1986)
BS, MBA (Xavier University) Associate Director of Student Services/' University Center
MADELEINE MITCHELL (1995)
BA, MA (Hunter College, CUNY)
Interim Director of English as a Second
Language and Special Programs
JOHN R. MORREY (1992)
BS, MS (George Williams College)
Head Baseball Coach
WILLIAM E, MORAN (1997)
BA, MPA (Northern Kentucky University)
Lab Facilities Coordinator
LESLIE MURRY (1997)
BA, MS (West Virginia University)
Assistant Sports Information Director
THOMAS NASTOLD (1986)
Operations Manager, ISS
STEPHEN R. NICHOLS (1989)
BSBA (Xavier University)
Laboratory Technician, Chemistry
EUGENE TERRENCE NIEMAN (1979)
BA, MEd (Xavier University)
Director of Mailing Services
RHONDA L. NORMAN (1995)
BA, MA, MEd (Xavier University)
Counselor, Health and Counseling
NEEMA NOURIAN (1994)
BS, MS (University of Cincinnati)
Laboratory Technician, Biology
EDWARD T. O'DONNELL, S.J. (1994)
BA, MDIV, STL (Regis College, Toronto)
Academic Adviser.
STEPHEN M. OWEN (1996)
BCE, MS (The Ohio State University)
Associate Director of Physical Plant
GREGORY A. PARK (1988)
BA, MBA (Bowling Green State Univ.)
Assistant Athletic Director for Business
NORMAN L. PARR (1987)
BA (University of Cincinnati)
Director of Bands
JOHN P. POHLMAN (1972)
BS, MEd, PhD (Miami University)
Assistant Professor of Education
Academic Adviser
GEORGE E. PROSSER (1985)
BA, MA (West Virginia University) Head Coach, Men's Basketball
J. DAVID RALSTON (1974)

AB, MA (Loyola University-Chicago)
Director of Enrollment Research and Systems Development

JAMES RAY (1987)
BS (Xavier University)
Director of Recreational Sports
JOE REGRUTH (1996)
BS, MS (Xavier University) Men's Baseball Assistant Couch

PATRICE C. REIDER (1994)
BA, MBA (Xavier University)
Career Counselor
MARGARET A. ROBINSON (1979)
Programmer Analyst II. ISS
MARY ELIZABETH ROESELER (1991)
BS. MEd. EdD (University of Cincinnati)
Counselor. Health and Counseling
MARY J. ROSENFELDT (1993)
RN (Northem Kentucky University)
Nurse Superwisor
GREGORY E. RUST (1984)
BS (Northern Kentucky University)
Director for Photography
GAIL K. SARGENT (1987)
BA, MEd (Xavier University)
Director of Prospect Research
DAVID M. SAUTER (1991)
BS, MS (Miami University)
University Registrar
ADRLAN SCHIESS (1985)
BS. MEd (Xavier University)
Director of Freshman Programs
KELLEY K. SCHIESS (1988) BS, MA (Ball State University) Associate Director of Admission

STEPHEN G. SCHISSLER (1996)
BS, MEd (University of Dayton) Bursar

MARK D. SCHMIDT (1994)
BSBA (Boston College) Men's Basketball Assistant Coach
ROBERT W. SCHMIDT, S. J. (1964)
Lit. B, MA, PhL, STL, PhD (University of Toronto)
Delegate for Community Outreach
KRISTIN A. SCHNEIDER (1996)
BS, MEd (Xavier University) Women's Basketball Assistant Coach
DEBRA SCHNEIDER (1985)
Assistant Bursar
KATHY SELBY (1985)
Assistant Director, Annual Fund
THOMAS J. SHEIBLEY (1995)
BA (Miami University)
Retreat Coordinator, Cumpus Ministry

CHRISTINE SISSON (1986)
BA (College of Mt. St. Joseph)
Assistant Director Financial Aid
NANCY N. SLAVEN (1990)
Loan Collection Manager
LARRY SMITH (1980)
Supervisor of Custodians
SHEILA SPETH (1990)
BA, MEd (Xavier University)
Director of Graduate Student Services
CATHERINE J. SPRINGFIELD (1988)
BFA (Eastern Michigan University)
Associate Director, Performing Arts
KATHERINE L. ST. DENNY (1996)
BFA (Rochester Institute of Technology)
Art Director, Marketing and Public Relations

DOUG STEINER (1988)
BA (Capital University)
Men's Golf Coach
JOHN D. STEMMER (1997)
BA, MA, MLS (Indiana University)
Electronic Services Librarian
LEE STEVENSON (1985)
Custorial Supervisor
CYNTHIA A. STOCKWELL (1988)
BA, MBA (Xavier University)
Director of Undergraditate Program and International Field Experiences, College of Business Administration

GORDON L. SUGGS (1996)
BS. MBA (Cornell University)
Manager, User Suppport Services, ISS
JODY TENOEVER (1996)
BA (Xavier University)
Assistani Director, Alumni Relations
JENNIFER L. THACKER (1992)
BS (Xavier University)
Research Analyst, Development
PHILIP G. THOMAS (1994)
Studio Engineer, WVXU-FM
DENNIS A. TIERNEY (1986)
Laboratory Technician, Physics
MARK TIPTON (1992)
BFA (University of Cincinnati)
Assistant Operations Manger, WVXU-FM
R. ELAINE TODARO (1989)

BS, MA, PhD (The Ohio State University)
Director of Assessment for Student
Development
MARIE A. TOON (1984)
Associate Director of Financial Aid

## JAMES TRACEY (1985)

AA (Southern Ohio College)
Assistant Director of Physical Plant
JOHN D. TUCKER (1996)
Training NCO, Military Science
GUY VANASSE (1993)
BM, MM (University of Cincinnati College Conservatory of Music)
Director of Music Ministry, Campus Ministry
JOHN D. VENNEMEYER (1979)
BS (University of Cincinnati) Comptroller
MARY LISA VERTUCA (1976)
BA, MEd (Xavier University)
Director, Elementary Education Program
KRISTA J. WARNER (1981)
Associate Registrar
JACK E. WEAVER (1961)
Electro - Mechanical Supervisor
DANNY E. S. WEBB (1980)
AS (University of Cincinnati)
Telecommunications Manager, ISS

LISA M. WENDEL (1987)
BS, MEd (Xavier University)
Associate Director of Admission
LORI WRIGHT (1994)
BA (University of Cincinnati)
Admission Coumselor
Coordinator, Minority Admission
PAIGE WIDEMAN (1992)
BFA (Kansas City Art Institute)
Program Manager, XMCG
SERAFINA S. WILLIAMS (1987)
BA, MA, MBA (Xavier University)
Regional Director of Development
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
JOANNE L. YOUNG (1993)
BA. MLS, PhD (University of Pitsburgh)
Director of University Libraries

PAM BACH (1995)
BA. MLS (University of Kentucky)
Public Services Librarian
ELAINE M. CHENG (1989)
AB, MS (University of Illinois)
Circulation. Reserves, and Interlibrary Lexan Librarian

MICHELLE EARLY (1995)
BA, MLS (University of Kentucky)
Bibliographic Control Senvices Librarian
JOHN N. FELTON, S. J.
HAB, PhL, AM, STL, BA, MA (Oxford
University)
University Archivist
MARTHA FERRELL (1985)
BA, MLS (University of Kentucky)
Acquisitions Librarian

TIMOTHY J. McCABE (1978)
BA. MPA, MLS (Kent State University)
Periokicals Librarian
JO MCCLAMROCH (1995)
BA. MLS (Indiana University)
Head of Collections Management
BETTY A PORTER (1990)
AB, ME-PD, AM (University of Michigan)
Head of Lodge Learning Lab
KA THLEEN A. SIRY (1994)
BA. MLS (University of Kentucky)
Public Services Librarian
VICTORIA L. YOUNG (1985)
BA. MEd, MLS (University of Michigan)
Head of Public Services

## University Faculty

JAMAL A. ABU-RASHED (1989)
BA, MS, MA, PhD (Southern Methodist University)
Associate Professor of Economics
GILLIAN T. W. AHLGREN (1990)
BA, MA, PhD (University of Chicago)
Associate Professor of Theology
ROSHAN D. AHUJA (1987)
BS, MBA, DBA (Mississippi State University)
Associate Professor of Marketing
JOYCE S. ALLEN (1979)
BBA, CPA, MBA (University of Cincinnati), Associate Professor of Accounting
JOHN ERIC ANDERSON (1985)
BA, MA, JD (University of Cincinnati)
Assistant Professor of Communication Arts
M. CHRISTINE ANDERSON (1995)
$\mathrm{AB}, \mathrm{MA}, \mathrm{PhD}$ (Ohio State University)
Assistant Professor of History
PHYLLIS AUGSPURGER (1990)
BSN, MSN, PhD (University of Cincinnati) Associate Professor of Nursing
AARON I. BABA (1997)
BS, MSc, PhD (Tulane University New Orleans)
Assistant Professor of Chemistry
BARBARA J. BARKER (1977)
BS, PhD (University of Cincinnati)
Associate Professor of Chemistry
NORMAN J. BARRY (1972)
$\mathrm{AB}, \mathrm{PhD}$ (University of Toledo)
Professor of Psychology
ROBERT BAUMILLER, S. J. (1995)
BS, STB, PhD, PhL (St. Louis University) Associate Dean for Health Eclucation Programs, Professor of Biology
ANN BEIERSDORFER, RSM (1980)
BA, MA (University of Notre Dame) Associate Professor of Art
NORMAN L. BERG (1969)
$\mathrm{AB}, \mathrm{MA}, \mathrm{PhD}$ (Queen's University)
Professor of Psychology
DAVID D. BERRY (1982)
BS, MS, PhD (University of Kentucky) Assistant Professor of Computer Science
NANCY E. BERTAUX (1985)
BA, MA, PhD (University of Michigan)
Professor of Economics
MELANIE ANN BLACKWELL (1987)
BS, MS, PhD (University of Kentucky)
Associate Professor of Economics

ELENA BLAIR (1969)
BS, MSEd, PhPra, PhD (University of Buenos Aires)
Associate Professor of Philosophy
JUDITH S. BLOOMER (1992)
BS. MSW, PhD (Florida State University)
Associate Professor and Chair
Occupational Therapy Department
RICHARD H. BONVILLAIN (1971)
STB, PhD (University of Munich)
Associate Professor of Philosophy
JAMES BOOTHE (1987)
BS, MEd, EdD (Western Michigan
University)
Associate Professor of Educarion Chair of the Department
JOSEPH A. BRACKEN, S. J. (1982)
LittB, MA, PhD (University of Freiburg) Professor of Theology
Rector of the Jesuit Community
LEO H. BRADLEY (1990)
BA, MEd, EdD (University of Cincinnati)
Associate Professor of Education
GERALD F. BRAUN (1986)
$\mathrm{BS}, \mathrm{PhD}$ (University of Cincinnati)
Assistant Professor of Information Systems
THERESA A. BRIGHT (1994)
BS, MS, PhD (Georgia Institute of Technology)
Assistant Professor of Mathematics
JAMES D. BRODZINSKI (1993)
BFA, MA, PhD (Ohio University) Associate Professor of Management, Minerva Professor of Health Safety Management, Acting Chair of the Department, Associate Dean, College of Business Administration

DONA L. BUEL (1983)
BS, BM, MM (College Conservatory of Music) Assistant Professor of Music
JAMES E. BUNDSCHUH (1993)
$\mathrm{BS}, \mathrm{PhD}$ (Duquesne University)
Professor of Chemistry
Vice President for Academic Affairs
PETER BYCIO (1987)
BSc, PhD (Bowling Green State University)
Associate Professor of Management
JULIE A. B. CAGLE (1992)
BS, MBA, PhD (University of South Carolina)
Assistant Professor of Finance
EDWARD J. CARTER, S. J. (1966)
AB, MA, STL, STD (Catholic University)
Professor of Theology

CAROLYN CHAMBERS (1978)
BA, MS, PhD (University of California)
Professor of Biology
ELAINE M. CHARTERS, RSM (1980)
BA, MT (ASCP), MA, PhD (Catholic University)
Professor of Biology
Director of Medical Technology Program
SUZANNE M. CHOUTEAU (1988)
BA, MA, MFA (University of lowa)
Associate Professor of Art
THOMAS D. CLARK (1981)
BA, MA, PhD (Indiana University)
Professor of Management
JERRY CLINE-BAILEY (1991)
BA, MA, PhD (University of Texas) Associate Professor of English
LISA A. CLOSE-JACOB (1995)
BS, MS, PhD (University of Cincinnati)
Assistant Professor of Biology
STEVEN A. COBB (1984)
BA, MA, PhD (Brown University)
Associate Professor of Economics
E. PAUL COLELLA (1979)

BA, MA, PhD (Fordham University)
Professor of Philosophy
Director of University Scholars Program
IRENE B. COMPTON (1991)
BA, MA, PhD (University of Cincinnati)
Assistant Professor of Modern Languages
BRIAN W. CONNOLLY (1961)
BA, STB, STL, MA, PhD (University of Pittsburgh)
Professor of English
VANCE COONEY (1996)
$\mathrm{BA}, \mathrm{PhD}$ (University of Arizona)
Assistant Professor of Accounting \& Information Systems
DON J. COSGROVE (1969)
BA, MA, PhD (Ohio State University)
Professor of Psychology
ELAINE A. CRABLE (1982)
BS, MEd, MBA, PhD (University of Georgia) Associate Professor of Information Systems

CYNTHIA L. CROWN (1988)
BA, MA, PhD (University of Delaware)
Associate Professor of Psychology
EDMUND P. CUEVA (1996)
BA, MA, MA, PhD (Loyola University)
Assistant Professor of Classics
MARGARET G. CUNNINGHAM (1985)
BA, MS, PhD (University of Cincinnati)
Assistant Professor of Management

## CHRISTINE M. DACEY (1980)

$\mathrm{BS}, \mathrm{MA}, \mathrm{PhD}$ (University of Ottawa)
Professor of Psychology
Director of Psychological Services Center
WILLIAM E. DAILY (1969)
BSBA, MEd, MA, PhD (University of Cincinnati)
Professor of Communication Arts
Director of Cultural Diversity Program
CRAIG M. DAVIS (1995)
BS, MS, PhD (Syracuse University)
Assistant Professor of Chemistry
KEVIN DEVINE (1989)
BS, MBA, PhD (University of Nebraska)
Associate Professor of Accounting
ARTHUR J. DEWEY (1980)
AB, MDiv, ThD (Harvard University)
Professor of Theology
ANN DINKHELLER (1982)
BS, MA, EdD, (University of Cincinnati)
Assistant Professor of Education
Director, Procter \& Gamble Resource Center
CYNTHIA L. DULANEY (1994)
BS, MA, PhD (University of Alabama)
Assistant Professor of Psychology
LANI J. EBERLEIN (1982)
BA, PsyD (Baylor University)
Associate Professor of Psychology
MICHAEL E. ENDRES (1975)
BA, MA, PhD (St. Louis University)
Professor of Criminal Justice
Director of Graduate Program in Criminal
Justice
DOROTHY B. ENGLE (1990)
BA, PhD (Carnegie-Mellon University)
Associate Professor of Biology
JOANNE PHILLIPS ESTES (1995)
MS (Mercy College of Detroit)
Assistant Professor of Occupational Therapy
Interim Chair of Department
ANDREW C. EUSTIS (1984)
BA, MBA, PhD (Cornell University)
Associate Professor of Management
Director, Entrepreneurial Center
JOHN D. FAIRFIELD (1984)
BA, MA, PhD (University of Rochester)
Professor of History
EDWARD E. FENLON (1997)
BS, PhD (University of Illinois)
Assistant Professor of Chemistry
MIRIAM FINCH (1988)
BA, MS, PhD (University of Kansas) Assistant Professor of Communication Arts Chair of the Department

LINDA R. FINKE (1976)
AB, MS, PhD (Cornell University) Associate Professor of Biology

NORMAN M. FINKELSTEIN (1980)
AB, MA, PhD (Emory University)
Professor of English
Chair of the Department
PAUL E. FIORELLI (1983)
BA, JD, MBA (University of Dayton)
Professor of Legal Studies
DAVID C. FLASPOHLER (1962)
BS, MS, PhD (Rutgers University)
Professor of Mathematics
T. MICHAEL FLICK (1989)

BS, MEd, MA, PhD, EdD (University of Sarasota)
Associate Professor of Education
ERNEST L. FONTANA (1966)
BS, MA, PhD (University of Notre Dame)
Professor of English
ROGER A. FORTIN (1966)
BA, MA, PhD (Lehigh University)
Professor of History
Chair of the Department
ROBERT J. FOX JR. (1996)
BA (Johnson State College) Assistant Professor of Military Science

## JAMES P. GAFFNEY (1965)

$\mathrm{AB}, \mathrm{MEd}, \mathrm{EdD}$ (University of Cincinnati) Professor of Education
BRENDA S. GARDNER (1992)
AS, BA, MPA, PhD (University of MissouriColumbia)
Assistant Professor of Education -
Human Resource Development
Director, MEd in HRD Program
DANIEL W. GEEDING (1969)
BS, MBA, CPA, PhD (University of Cincinnati)
Professor of Management
Director, Center for International Business
CYNTHIA H. GEER (1997)
BA, MEd, EdD (University of Cincinnati)
Assistant Professor of Education
MARTIN B. GEROWITZ (1978)
BA, MA, PhD (University of Buffalo)
Professor of Health Services Administration
JOHN R. GETZ (1968)
$\mathrm{AB}, \mathrm{MA}, \mathrm{PhD}$ (University of Pennsylvania)
Professor of English
MARIE J. GIBLIN (1994)
BA, MA, PhD (Union Theological Seminary)
Assistant Professor of Theology

PHILIP W. GLASGO (1984)
BS, MBA, PhD (Ohio State University)
Associane Professor of Finance
MARY RUTH GRAF, RSM (1974)
BS, MA, PhD (Hebrew Union College)
Professor of Theology
CHARLES J. GROSSMAN (1977)
BA, MS, MBA, PhD (University of
Cincinnati)
Professor of Biology
Chair of the Deparment

## RICHARD L. GRUBER (1968)

AB, MA, PhD (Loyola University of Chicago)
Associate Professor of History
Director of Graduate Humanities Program
LIN GUO (1994)
BS, MS, PhD (University of Cincinnati)
Assistant Professor of Health Services Administration
WILLIAM J. HAGERTY (1969)
LittB, MA, MA (Loyola, Bellarmine) Associate Professor of Communication Arts
YOUNG P. HAHN (1997)
BS, MS (University of Missouri - Rolla)
Assistant Professor of Military Science
LEE B. HAMILL (1996)
BS, MEd, PhD (Indiana University)
Assistant Professor of Education
ROBERT W. HANKINS (1996)
BS, MBA, PhD (University of North Carolina

- Chapel Hill)

Assistant Professor of Health Services Administration

CHRIS T. HARMAN (1994)
MS (Indiana University - Bloomington)
Assistant Professor of Education
GEORGE W. M. HARRISON (1985)
BA, MA, PhD (John Hopkins University)
Associate Professor of Classics
Chair of the Department
JOHN B. HART (1950)
BS, MS (Xavier University)
Professor of Physics

## KATHLEEN J. HART (1988)

BS, MA, PhD (Virginia Polytechnic Institute) Associate Professor of Psychology

## THOMAS J. HAYES (1976)

BS, MBA, MBA, PhD (University of Cincinnati)
Professor of Marketing
Chair of the Department
STANLEY E. HEDEEN (1968)
$\mathrm{BA}, \mathrm{PhD}$ (University of Minnesota)
Professor of Biology

NEIL R. HEIGHBERGER (1968)
BS, PhD (University of Cincinnati)
Professor of Political Science
Dean, College of Social Sciences
DAVID T. HELLKAMP (1967)
BS, MA, PhD (University of Ottawa)
Professor of Psychology
STEVEN T. HERBERT (1995)
BS, PhD (Ohio State University)
Assistant Professor of Physics
MARGO J. HEYDT (1997)
BA, MSW, EdD (University of Cincinnati)
Assistant Professor of Social Work
BRENNAN R. HILL (1984)
STL, MA, PhD (Marquette University)
Professor of Theology
Chair of the Department
IRENE B. HODGSON (1986)
BA, MA, PhD (Purdue University)
Associate Professor of Modern Languages
BARBARA M. HOPKINS (1980)
BA, PhD (Catholic University) Associate Professor of Chemistry Chair of the Department
TIMOTHY T. HORAN (1995)
BA, PhD (Indiana University)
Assistant Professor of Biology
STEVEN HORNIK (1997)
BBA (University of Miami)
Assistant Professor of Accounting
SHERRIE E. HUMAN (1997)
BA, MPA, PhD (University of Kentucky) Assistant Professor of Management and Entrepreneurship
GREGORY S. HUNDLEY (1995)
BCom, MA, PhD (University of Minnesota)
Associate Professor of Economics and Human Resources

## ROBIN IKEGAMI (1992)

BA, MA, PhD (University of Michigan) Assistant Professor of English
WAYNE C. JANKOWSKE (1978)
BA, MA, MBA, CPA, PhD (University of Kentucky)
Associate Professor of Finance
CAROLYN S. JENKINS (1980)
AB, MEd, MSW, PhD (University of Kentucky)
Associate Professor of Social Work
BRUCE JOHNSON, (1982)
BS, MS, MBA, PhD (University of Cincinnati)
Associate Professor of Information and Decision Sciences

DA VID L. JOHNSON (1997)
BS, MEd, EdD (University of Cincinnati)
Associate Professor of Education
ELIZABETH L. JOHNSON (1997)
BS, MS, PhD (Indiana University)
Assistant Professor of Computer Science
R. STAFFORD JOHINSON (1982)

BA, MS, PhD (University of Kentucky)
Professor of Finance
D. J. O'Connor Chair

Chair of the Department
PHILLIP D. JONES (1983)
BS, MA, PhD (University of Tennessee)
Associate Professor of Management
Director for the Xavier University Conference
Center and Xavier Consulting Group
WILLIAM A. JONES (1969)
AB, MBA, PhD (University of Notre Dame)
Associate Professor of Philosophy
CHARLES J. KAPP (1977)
BS, MA, PhD (Florida Institute of Technology)
Professor of Psychology
MARSHA KARAGHEUSIAN-MURPHY (1986)

BS, BFA, MFA (Arizona State University)
Associate Professor of Art
Chair of the Department
MAX J. KECK (1992)
BS, MS, PhD (Purdue University)
Professor of Physics
Dean, College of Arts \& Sciences
THOMAS P. KENNEALY, S. J. (1969)
AB, MA, PhL, MAT (Indiana University) Associate Professor of Modern Languages Associate Dean, Colleges of Arts \& Sciences and Social Sciences
LYNDA M. KILBOURNE (1996)
BA, PhD (University of Texas)
Assistant Professor of Management and Entrepreneurship
JAMES C. KING (1976)
$\mathrm{BA}, \mathrm{MA}, \mathrm{PhD}$ (University of Michigan)
Professor of Communicalion Arts
Director of Radio, WVXU-FM
MARGARET O'BRIEN KING (1988)
BSN, MEd, MS (Wright State University)
Associate Professor of Nursing
SUSANNE P. KIRK (1988)
BS, MEd, PhD (Miami University)
Assistant Professor of Education
J. LEO KLEIN, S. J. (1970)

Litt.B, MA, MA, PhD (Fordham University)
Professor of Theology
Vice President for Spiritual Development

TIMOTHY J. KLOPPENBORG (1990)
BS, MBA, PhD (University of Cincinnati) Associate Professor of Operations Management

## PAUL F. KNITTER (1975)

AA, BA, ThD (University of Marburg)
Professor of Theology

## DAVID J. KNUTSON (1994)

BA, MA, PhD (University of Wisconsin-
Madison)
Assistam Professor of Modern Languages
ALEXANDRA S. KORROS (1986)
$\mathrm{AB}, \mathrm{MA}, \mathrm{PhD}$ (Columbia University)
Associate Professor of History
SHARON J. KORTH (1993)
BS, MEd, EdD (University of Cincinnati)
Assistant Professor of Education
LON S. KRINER (1978)
BS, MA, PhD (University of Toledo) Associate Professor of Education Director of Graduate Counseling Programs

HEMA A. KRISHNAN (1993)
MS, MBA, PhD (University of Tennessee)
Assistant Professor of Management

## FELICIA E. KRUSE (1989)

BA, MA, PhD (Pennsylvania State University)
Associate Professor of Philosophy
RAYMOND M. LAMBERT (1995)
BS, MS (Boston University)
Professor of Military Science
Director of Military Science Program
HILRETH LANIG (1989)
BS, MSN (University of North Carolina at Chapel Hill)
Assistant Professor of Nursing
WILLLAM J. LARKIN, III (1956)
BS, MEd, MS, PhD (University of Cincinnati)
Professor of Mathematics
JOHN J. LAROCCA, S. J. (1977)
$\mathrm{AB}, \mathrm{MA}, \mathrm{PhD}$ (Rutgers University)
Professor of History
GARY LEWANDOWSKI (1994)
BS, MS, PhD (University of Wisconsin Madison)
Assistant Professor of Mathematics and Computer Science

DENNIS D. LONG (1980)
BA, MSW, PhD (University of Cincinnati)
Professor of Social Work
Chair of the Department
ROBERT L. LUDKE (1993)
$\mathrm{BS}, \mathrm{MS}, \mathrm{PhD}$ (University of WisconsinMadison)
Professor of Health Services Administration Chair of the Deparment

NORMAN MARTIN MacDOWELL (1991)

BS, MS, MBA, DrPH (University of Texas)
Associate Professor Health Services Administration
WILLIAM MADGES (1983)
HAB. MA, PhD (University of Chicago)
Professor of Theology
JOSÉ MARÍA MANTERO (1996)
BA, MA, PhD (University of Georgia)
Assistant Professor of Modern Languages
MICHAEL MARMO (1970)
BA, MA, PhD (University of Illinois)
Professor of Economics/Human Resotirces
LOUIS J. MATZ (1992)
BA, MA, PhD (University of California)
Assistant Professor of Philosophy
JAMES M. McCANN, S.J. (1997)
BA, MA, PhD (Princeton University)
Assistant Professor of Political Science
MARY ANN McCONNELL-FODOR (1981)
BS, MS, PhD (Ohio State University)
Associate Professor of Education
GINGER K. McKENZIE (1992)
BA, MA, EdD (Texas Tech University)
Assistant Professor of Education
YVONNE McKOY (1997)
BSN, MSN, PhD (Florida State University)
Assistant Professor of Nursing
DANIEL J. McLOUGHLIN (1982)
BS, MS, PhD (University of Missouri)
Associate Professor of Chemistry
MARK A. MERRICK (1997)
BS, MA, PhD (University of Toledo)
Assistant Professor of Education
SHARON A. MERRILL (1993)
BS, MEd, EdD (University of Cincinnati)
Assistant Professor of Education
BONNIE J. MILLER (1981)
BSN, MEd, MS (University of Illinois)
Associate Professor of Nursing
RAYMOND E. MILLER (1965)
BS, PhD (John Hopkins University)
Professor of Physics
JON D. MOULTON (1967)
$\mathrm{AB}, \mathrm{MA}, \mathrm{PhD}$ (New School for Social Research)
Associate Professor of Political Science
SUSAN NAMEI (1989)
BS, MSN (University of Cincinnati)
Assistant Professor of Nursing
W. MICHAEL NELSON, III (1978)

BS, MS, ABPP, PhD (Virginia
Commonwealth University)
Professor of Psychology
Chair of the Department

SUZANNE M. NORMAN (1997)
BA, MA, PhD (University of Kansas)
Assistant Professor of Psychology
RAY O. NULSEN, JR. (1989)
BS, MBA, PhD (University of Cincinnati)
Associate Professor of Marketing
PRISCILLA M. O'CLOCK (1992)
BS, MBA, PhD (University of Nebraska)
Associate Professor of Accounting
FRANK M. OPPENHEIM, S. J. (1961)
AB, MA, STL, PhD (St. Louis University) Professor of Philosophy

DANIEL E. OTERO (1989)
BA, MA, PhD (Pennsylvania State University) Assistant Professor of Mathematics
KENNETH R. OVERBERG, S. J. (1978)
AB, MDiv, PhD (University of Southern California)
Professor of Theology
DAEWOO PARK (1992)
BA, MBA, PhD (Texas A\&M)
Assistant Professor of Management
JAMES E. PAWLUKIEWICZ (1989)
BA, MS, PhD (University of Kentucky)
Associate Professor of Finance
GRAHAM F. PETRI (1967)
BA, MS (University of Cincinnati)
Assistant Professor of Biology
JOHN P. POHLMAN (1972)
BS, MEd, PhD (Miami University) Assistant Professor of Education Academic Adviser

RICHARD F. H. POLT (1992)
BA, MA, PhD (University of Chicago)
Assistant Professor of Philosophy
CHARLOTTE PROFEITT (1989)
BSN, MEd, MSN (University of Cincinnati)
Associate Professor of Nursing
LESLIE ANN PROSAK-BERES (1988)
AB, MEd, PhD (University of Toledo)
Associate Professor of Education
JEROME J. PRYOR, S. J. (1974)
BA, MA, EdD (Wayne State University)
Associate Professor of Art
RICHARD J. PULSKAMP (1977)
BS, MS, PhD (University of Cincinnati)
Associate Professor of Mathematics
GERALD L. QUATMAN (1962)
BA, MA, PhD (Purdue University)
Professor of Psychology
RONALD W. QUINN (1991)
BS, MEd, EdD (Temple University) Assistant Professor of Education Director of Health, Physical Education and Sports Studies
Head Women's Soccer Coach

TIMOTHY S. QUINN (1987)
BA, MA, PhD (Catholic University)
Associate Professor of Philosophy
Director of Honors Bachelor of Arts Program
CAROL H. RANKIN (1984)
BA, MA, PhD (University of Houston)
Associate Professor of Economics and Human Resources
Associate Academic Vice President
JOHN RAY (1989)
BA, MA, PhD (University of Chicago)
Associate Professor of Political Science
JACK REAMY (1991)
BS, MS, PhD (University of Texas)
Associate Professor of Health Services Administration

JO ANN M. RECKER, SND de N(1988)
BA, MA, PhD (Ohio State University)
Professor of Modern Languages
Chair of the Department
ROBERT A. RETHY (1982)
BA, MA, PhD (Pennsylvania State
University)
Professar of Philosophy
Chair of the Department
BRENT G. RICHARDSON (1997)
BA, MEd, EdD (The College of William and Mary)
Assistant Professor of Education
JOHN G. RICHARDSON (1973)
BA, MS, EdD (University of Cincinnati)
Associate Professor of Criminal Justice
Director, Undergraduate Criminal Justice
Program
LINDA S. RIEG (1992)
BSN, MBA, MSN (University of Cincinnati)
Associate Professor of Nursing
TIMOTHY M. RIORDAN (1973)
AB, MEd, PhD (Ohio State University)
Associate Professor of Education
HELMUT J. ROEHRIG (1981)
MM, DMA (Indiana University)
Professor of Music
Chair of the Department
CYNTHIA J. ROONEY (1992)
BS, MBA, PhD (University of Tennessee)
Assistant Professor of Accounting
BERND E. ROSSA (1994)
MS, PhD (Vanderbilt University)
Assistant Professor of Mathematics
CLINTON B. SCHERTZER (1974)
BSBA, MBA, PhD (University of Cincinnati)
Associate Professor of Marketing
IDA CRITELLI SCHICK (1992)
BA, MA, MS, PhD (Marquette University)
Associate Professor of Health Services
Administration

THOMAS A. SCHICK (1990)
BA, PhL, MA (Loyola University-Chicago) Assistant Professor of Communication Arss
LINDA SCHMID (1990)
ADN, BSN, MSN (University of Cincinnati) Assistant Professor of Nursing

## BERNARD L. SCHMIDT (1980)

AB, MA, MFA (The Ohio State University)
Professor of Art
SUSAN M. SCHMIDT (1980)
BSN, COHN-S, MSN, PhD (University of Cincinnati)
Associate Professor of Nursing
Interim Chair of the Department
JANET R. SCHULTZ (1997)
BS, MA, PhD (Miami University)
Associate Professor and Clinical Director of Psychology
CAMILLE SCHUSTER (1988)
BSE, MA, PhD (Ohio State University)
Professor of Marketing
SUSAN A. SHAPIRO (1997)
BA, MA, PhD (University of Texas)
Assistant Professor of Classics
ARTHUR SHRIBERG (1983)
BS, MEd, MBA, EdD (Columbia University)
Associate Professor of Management
PAUL L. SIMON (1963)
AB, MA, PhD (Notre Dame University)
Professor of History
KALEEL C. SKEIRIK (1982)
BM, MM, PhD (University of Cincinnati)
Assistant Professor of Music
JAN S. SLATER (1997)
BA, MS, PhD (Syracuse University)
Assistant Professor of Communication Arts
DAVID L. SMITH (1981)
BFA, MFA (University of Cincinnati)
Associate Professor of Communication Arts
Director, Xavier Television Center
REBECCA L. SMITH (1995)
BSBA (Austin Peay State University)
Assistant Professor of Military Science
WILLIAM E. SMITH (1956)
BSBA, MBA, MEd (Xavier University), CPA
Professor of Accounting

## KATHLEEN R. SMYTHE (1997)

BA, MA, PhD (University of WisconsinMadison)
Assistant Professor of History
JAMES T. SNODGRASS III (1989)
AB, MS, PhD (Vanderbilt University) Associate Professor of Mathematics
C. CHARLIE SONG (1993)

BE, MS, EdD (Texas A\&M University) Assistant Professor of Education
GERALDO U. de SOUSA (1989)
BA. MA, MPhil, PhD (University of Kansas)
Associate Professor of English
KANDI M. STINSON (1988)
BA, MA, PhD (University of North Carolina)
Associate Professor of Sociology
Chair of the Department
KARL W. STUKENBERG (1994)
BA, MA, PhD (Ohio State University)
Assistant Professor of Psychology
JOHN J. SURDICK (1986)
BBA, MBA, PhD (University of Wisconsin)
Associate Professor of Accounting
MICHAEL JOHN SWEENEY (1995)
BA, MA, MA, STB, PhD (Catholic University)
Assistant Professor of Philosophy

## RAGHU TADEPALLI (1997)

BCom, MBA, PhD (Virginia Polytechnic
Institute and State University)
Associate Professor of Marketing
RICHARD A. TALASKA (1984)
$\mathrm{BA}, \mathrm{MA}, \mathrm{PhD}$ (Catholic University)
Associate Professor of Philosophy
TRUDELLE H. THOMAS (1987)
BA, MA, MLS, PhD (University of Cincinnati)
Associate Professor of English
VICTORIA THOMPSON (1993)
BA, PhD (University of Pennsylvania)
Assistant Professor of History
TERRENCE P. TOEPKER (1966)
BS, MEd, MS, PhD (University of
Cincinnati)
Professor of Physics
GEORGE W. TRAUB, S. J. (1972)
BLit, PhL, MA, STL, PhD (Cornell Univ)
Jesuit Professor of Theology
Director of Ignatian Programs
GEORGE G. TREBBI, JR. (1973)
$\mathrm{BA}, \mathrm{MBA}, \mathrm{PhD}$ (University of Cincinnati)
Professor of Marketing
DAVID C. TRUNNELL (1968)
AB, MS (Xavier University)
Assistant Professor of Mathematics
EDWARD J. VAN DERBECK (1976)
BA, MS (SUNY - Albany), CPA
Professor of Accounting
Chair of the Department

JANICE B. WALKER (1980)
BS, MS, PhD (University of Michigan)
Associate Professor of Mathematics
Chair of the Department
MARY M. WALKER (1990)
BS, MBA, PhD (University of Cincinnati)
Associate Professor of Marketing
MICHAEL A. WEBB (1997)
BA, MA, PhD (University of Illinois)
Professor of Economics
Dean, College of Business Administration
SHELLY E. WEBB (1992)
BA, PhD (University of Kentucky)
Assistant Professor of Finance
DAVID R. WEINBERG (1980)
$\mathrm{AB}, \mathrm{PhD}$ (University of California -
Berkeley)
Associate Professor of Economics
LINDA S. WELKER (1988)
BS, MA, PhD (Southern Illinois University)
Assistant Professor of Communication Arts
MICHAEL E. WEISSBUCH (1974)
$\mathrm{BA}, \mathrm{MA}, \mathrm{PhD}$ (Loyola University-Chicago)
Associate Professor of Sociology
JOSEPH H. WESSLING (1966)
BS, MA (Xavier University)
Professor of English

TIMOTHY WHITE (1990)
$\mathrm{BA}, \mathrm{MA}, \mathrm{PhD}$ (University of Michigan)
Associate Professor of Political Science
TYRONE WILLIAMS (1983)
BA, MA, PhD (Wayne State University)
Associate Professor of English
BETH ANNE WILSON (1997)
BS, MS, PhD (University of Oregon)
Assistant Professor of Economics
NORMAN J. WILSON (1992)
BA, MA, PhD (U.C.L.A.)
Assistant Professor of History
CAROL L. WINKELMANN (1991)
BA, MA, PhD (University of Michigan)
Associate Professor of English
ROBERT E. WUBBOLDING (1969)
BA, MEd, EdD (University of Cincinnati)
Professor of Education
STEPHEN C. YERIAN (1979)
$\mathrm{AB}, \mathrm{MS}, \mathrm{PhD}$ (The Ohio State University)
Associate Professor of Physics
Chair of the Department
ROBERT O. ZIMMERMAN (1970)
BA, MA, PhD (SUNY - Buffalo)
Professor of Economics
Chair of the Department

## Academic Staff

SHEILA DORAN (1981)
BS, BA, MEd (Xavier University) Academic Staff in Mathematics
DONNA J. ENDICOTT (1987)
BS (Xavier University)
Director of Radiologic Technology Program
MICHAEL T. GEHNER (1993)
BS, MS (University of Cincinnati)
Laboratory Instructor in Biology
MARIA DOLORES GODDARD (1986)
BA, MA, MA (Indiana University)
Senior Academic Staff in Modern Languages
LINDA HEATH(1980)
BS, MS (University of Kentucky)
Senior Laboratory Instructor in Biology
MARTHA V, HOLLAND (1980)
AB, MEd (University of Cincinnati)
Senior Academic Staff in Mathematics
PHYLLIS S. LAINE (1991)
BS, MPS, MS, PhD (University of Cincinnati)
Laboratory Instructor in Biology
VIMALA A. MAJETI (1982)
BS, MS, PhD (University of Califormia)
Senior Laboratory Instructor in Chemistry
MARGARET C. McDIARMID (1984)
BA, MA (Middlebury College)
Senior Academic Staff in Modern Languages
Director of Study Abroad

GEORGANNA JOARY MILLER (1993)
BS, OTR/L, MEd (Xavier University)
Academic Field Work Coordinator, Occupational Therapy
ROSIE MILLER, OSF (1989)
BA, MA (Mundelein College) Academic Staff in Theology
CLEASTER V. MIMS (1991)
BS, MEd (Xavier University) Academic Staff in Communication Arts
DEBORAH W. PEARCE (1983)
BA, MAT (Northwestern University) Academic Staff in Communication Arts
ALISON RUSSELL (1992)
BA, MA, PhD (University of Cincinnati)
Academic Staff in English Writing Program Director
BARBARA SARBAUGH (1994)
BS, MA (New York University) Academic Staff in Occupational Therapy
MARY WASHINGTON STROUD (1983)
BA, MS (University of Cincinnati) Senior Laboratory Instructor in Chemistry
JAMES T. TURPIN (1990)
BS, MA (Western Kentucky University) Laboratory Instructor in Physics
EILEEN A. WENDT (1978)
BA, BS, MS (University of Cincinnati)
Senior Laboratory Instructor in Biology

## Distinguished Professors Emeriti

VYTAUTAS J. BIELIAUSKAS, 1958-1988
Professor of Psychology

KARL P. WENTERSDORF, 1956-1987
Professor of English

RAYMOND C. McCOY, 1945-1987
Professor of Education

## Professors Emeriti

ALBERT F. ANDERSON JR., 1963-1993
Professor of Education
JERRY W. ANDERSON JR., 1978-1993
Professor of Management
TAYLOR BAKER, 1973-1988
Assistant Professor of Education
ALBERT A. BOCKLET, 1974-1995
Associate Professor of Health
Services Administration
THOMAS J. BRUGGEMAN, 1957-1994
Associate Professor of Mathematics
HAROLD L. BRYANT, 1967-1996
Professor of Economics
NAPOLLEAN BRYANT JR., 1970-1993
Professor of Education
EDWARD W. BURKE, S. J., 1964-1987
Associate Professor of Classics
JOHN B. CAMEALY, 1977-1993
Associate Professor of Management
WALTER J. CLARKE, 1949-1987
Professor of Psychology'
EDWIN K. CLICKNER, 1968-1974
Professor of Economics \& Finance
RAYMOND J. COLLINS, 1973-1994
Associate Professor of Mathematics
CHARLES J. CUSICK, 1955-1992
Professor of Biology
JAMES A. DELANEY, 1963-1997
Professor of Mathematics and
Computer Science
LAWRENCE I. DONNELLY, 1958-1995
Professor of Economics
RICHARD E. DUMONT, 1963-1994
Professor of Philosophy
JOHN N. FELTEN, S. J., 1957-1987
Professor of Classics
DANIEL P. FOLEY, S. J., 1963-1987
Professor of Psychology
JAMES H. FRY, 1975-1990
Associate Professor of Education

RICHARD J. GARASCLA, 1942-1985
Professor of Chemistry
BERNARD A. GENDREAU, 1953-1992
Professor of Philosophy
JAMES GLENN, 1956-1995
Associate Professor of English
EDWARD J. GOODMAN, 1950-1982
Professor of History
PAUL H. HAHN, 1968-1997
Professor of Criminal Justice
THOMAS H. HANNA, 1963-1987
Professor of Education
Associate Professor of Mathematics
J. KANEY HAYES, 1958-1985

Professor of Economics
ROBERT H. HELMES, 1950-1991
Professor of Education
LAWRENCE E. ISENECKER, S. J. 19631993
Associate Professor of Mathematics
FRANCIS D. JOHNSON, S. J. 1961-1993
Associate Professor of Political Science
ROBERT G. JOHNSON 1954-1993
Professor of Chemistry
ROBERT C. KLEKAMP, 1957-1996
Professor of Management
MARY GRACE KLEIN, 1969-1982
Professor of Education
JOSEPH J. KLINGENBERG, 1949-1985
Professor of Chemistry
EARL J. KRONENBERGER, 1962-1993
Professor of Psychology
NEIL A. KUMPF, 1970-1994
Associate Professor of Marketing
JOSEPH F. LINK JR., 1946-1978
Professor of Economics
HARRY R. MALY, 1959-1987
Professor of Accounting
MARTHA A. McDERMOTT, 1967-1992
Assistant Professor of Education

ROBERT J. MURRAY, 1960-1997
Professor of Classics
MILTON A. PARTRIDGE, 1966-1991
Professor of Education
JOSEPH J. PETERS, S. J., 1946-1977
Professor of Biology
CLAROY (SALLY) W. PRUDEN, 1975-1993
Professor of Education
JOHN RETTIG, 1968-1996
Professor of Classics
JOHN C. ROTHWELL, 1964-1992
Professor of Finance
HANS SCHMIDT, 1967-1992
Professor of Psychology
ROBERT W. SCHMIDT, S. J., 1964-1980
Professor of Philosophy
HOWARD G. SCHULTZ, 1957-1987
Professor of Economics
ROBERT A. SCHUTZMAN, 1961-1994
Professor of Accounting
ROMAN J. SCHWEIKERT, 1964-1987
Professor of Education

JAMES M. SOMERVILLE, 1971-1982
Professor of Philosophy
JOSEPH M. SULLIVAN, 1967-1993
Professor of Education
JOHN F. TAFURI, 1951-1990
Professor of Biology
THEODORE C. THEPE, S. J., 1961-1997
Associate Professor of Chemistry
ROBERT J. THIERAUF, 1965-1992
Professor of Information/Decision Sciences
STANLEY C. TILLMAN, S. J., 1969-1987
Professor of Philosophy
JOHN E. VANKIRK, 1971-1995
Professor of Marketing
MATIAS G. VEGA, 1954-1994
Professor of Modern Languages
ANDREW S. VIRAGH, S. J., 1968-1973
Professor of Philosophy
PETER B. WEBB, 1968-1995
Associate Professor of Information Systems
JAMES R. WEIR, 1969-1988
Associate Professor of Sociology

* Dates represent years of service to Xavier.


## American Jesuit Colleges and Universities

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| :--- | :--- | :--- | :--- |
| State | Institution | City | 1830 |
| Alabama | Spring Hill College | Mobile | 183 |
| California | Loyola Marymount University | Los Angeles | 1914 |
|  | University of San Francisco | San Francisco | 1855 |
|  | Santa Clara University | Santa Clara | 1851 |
| Colorado | Regis University | Denver | 1877 |
| Connecticut | Fairfield University | Fairfield | 1942 |
| Dist. of Columbia | Georgetown University | Wash. D.C. | 1789 |
| Illinois | Loyola University Chicago | Chicago | 1870 |
| Louisiana | Loyola University, New Orleans | New Orleans | 1912 |
| Maryland | Loyola College in Maryland | Baltimore | 1852 |
| Massachusetts | Boston College | Boston | 1863 |
|  | College of the Holy Cross | Worcester | 1843 |
| Michigan | University of Detroit Mercy | Detroit | 1877 |
| Missouri | Rockhurst College | Kansas City | 1910 |
|  | Saint Louis University | Saint Louis | 1818 |
| Nebraska | Creighton University | Omaha | 1878 |
| New Jersey | Saint Peter's College | Jersey City | 1872 |
| New York | Canisius College | Buffalo | 1870 |
|  | Fordham University | New York | 1841 |
|  | Le Moyne College | Syracuse | 1946 |
| Ohio | John Carroll University | Cleveland | 1886 |
|  | Xavier University | Cincinnati | 1831 |
| Pennsylvania | Saint Joseph's University | Philadelphia | 1851 |
|  | University of Scranton | Scranton | 1888 |
| Washington | Gonzaga University | Spokane | 1887 |
|  | Seattle University | Seattle | 1891 |
| West Virginia | Wheeling Jesuit College | Wheeling | 1954 |
| Wisconsin | Marquette University | Milwaukee | 1881 |

(Seminaries and high schools are not included in this list.)
ASSOCIATION OF JESUIT COLLEGES AND UNIVERSITIES
ONE DUPONT CIRCLE - SUITE 405, WASHINGTON, D.C. 20036 (202) 862-9893

## Alma Mater Xavier

## Dear Alma Mater Xavier!

Undying troth we pledge to you That we the living shall hold true The faith of those of years now gone Inviolate kept and thus passed on. So may the truth within us dwell And may this song our voices swell Until resounds o'er hill and dell Dear Alma Mater Xavier.


## The Seal of Xavier University

The seal of Xavier University combines three principle ideas: St. Francis Xavier, patron of the university; the Jesuit order of which he was a distinguished member; and the university. The five vertical stripes suggest the coat of arms of the Xavier family. A right arm wearing the Jesuit robe holds aloft the crucifix, signifying St. Francis Xavier preaching Christ crucified. The three sea shells signify the three journeys of Xavier into the Orient. Above the shield is the Jesuit seal, IHS, the first three letters of the name Jesus in Greek. Below is the Jesuit motto, AMDG [Ad Majorem Dei Gloriam], which translates "to the Greater Glory of God," and the words Vidit Mirabilia Magna, a phrase from the psalms applied to St. Francis Xavier which translates "he has seen great wonders."
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[^0]:    19 hours: CHEM 160, 161, 162, 163,240, 241, 242, 243, and courses elected from $320-490$ to complete at least 19 hours.
    A 2.000 cumulative average must be attained in the chemistry courses.

[^1]:    Requirements for the Mathematics Major
    Core Curriculum Requirements (see page 93): 64 hours, including

    - Sciences: at least 9 hours in two sciences including any two of the following: BIOL 160-161, BIOL 162-163, CHEM 160-161, CHEM 162-163, PHYS 170-161, and PHYS 172-163.
    - Foreign Language: French or German recommended.
    - Mathematics requirement included within the major. Major Requirements
    - 42 hours of mathematics courses: MATH 170, 171, 180, 210, 220, 230, 240, 340, 370 , four elective courses (200-397). The mathematics electives should be chosen with the help of the student's advisor.
    - Three hours of computer sciences: CSCI 170
    - A 2.000 cumulative average must be attained in the mathematics and computer science courses.
    - Successful performance on the MFT (Major Fields Test) in Mathematics.

    Any student wishing to major in mathematics should consult the chair of the department before registration.

[^2]:    * MATH 105 (unlike other programs) does count in this MATH area.

[^3]:    Core Curriculum Requirements (see page 95): 28 hours
    Concentration Requirements

    - 15 hours of criminal justice courses: CJUS 101, 210, 260, 321, and 3 hours of electives chosen from CJUS 102, 243, 332 and 364.
    - A 2.000 cumulative average must be attained in the criminal justice courses.

[^4]:    Requirements for the Occupational Therapy Degree
    Prerequisite or Concurrent Courses Outside the Department
    Sciences:

    - 8 hours of anatomy and physiology with lab (BIOL 140-143)
    - 3 hours of neuroscience with lab (BIOL 204)
    - 4 hours of physics and lab (Physics 160 and 161: recommended for 1997; required beginning Fall 1998)
    Mathematics:
    - 3 hours of mathematics (MATH 150 or equivalent)
    - 3 hours of general statistics (MATH 156)

    Social sciences:

    - 3 hours of general psychology (PSYC 101)
    - 3 hours of developmental psychology (for OT students) (PSYC 231/OCTH 143)

    Liberal Arts Core, including Ethics/Religion \& Society Focus

    - 1 hour of Cultural Diversity elective (UNST 100)
    - 3 hour of English composition or Rhetoric (ENGL 101 or 115)
    - 3 hours of a fine arts elective

[^5]:    MGMT 495 STRATEGY FORMULATION \& IMPLEMENTATION (3) Provides an opportunity to integrate business core and major related knowledge through the use of selected cases. Prerequisites: Senior status, FINC 300, MKTG 300, MGMT 300.
    MGMT 499 TUTORIAL COURSE: SENIOR LEVEL (3) Research in scholarly journals on a management topic of current import. Open to students only with consent of instructor.

    ## Graduate Courses

    MGMT 901 MANAGING ORGANIZATIONAL SYSTEMS (2) Develops an understanding of organizations as dynamic evolving systems.
    MGMT 902 INTERPERSONAL SKILLS (2) Developing interpersonal skills, including selfassessment, listening, business writing, oral communications, interviewing, and small group meeting proficiency.
    MGMT 903 MANAGING PROCESS IMPROVEMENT TEAMS (2) Understand the role and methods of process improvement and teamwork in organizations. Develop skills in team development, problem resolution, facilitation, data gathering and analysis, and decision making.
    MGMT 904 SYSTEMS OF OPERATIONS (1.5) Study of the issues and methods involved in the creation of goods and services, focusing on the manager's influence on the design, operation, and control of productive systems. Current organizational operations' systems are evaluated from the perspective of organizational value disciplines. Case studies are used extensively as the context for individual and team activities. Prerequisites: All Business skills and Foundation Skills courses.
    MGMT 908 MANAGEMENT OF THE PERSONNEL FUNCTION (3)
    MGMT 911 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. Prerequisites: MGMT 901, MGMT 902, MGMT 903.
    MGMT 914 PRINCIPLES OF LEADERSHIP (3) An overview and analysis of a variety of theories and approaches to leadership emphasizing team building and leadershipfollowership relations. Leaders from a variety of settings will serve as guest lecturers. Skill building and the development of a personal theory of leadership will be emphasized. Prerequisites: MGMT 901, MGMT 902, MGMT 903.
    MGMT 922 EXECUTIVE PRACTICES (3) Designed to have the student distill from experience and study a personal leadership style. This style is then practiced in teams that research and discuss cultural variables affecting management in various countries. Prerequisites: MGMT 901, MGMT 902, MGMT 903.
    MGMT 925 MULTINATIONAL MANAGEMENT (3) Planning international trade, sources of information, structuring multinational firms, personnel development, communication/motivation in cross-cultural perspective. Prerequisites: MGMT 901, MGMT 902, MGMT 903.
    MGMT 939 OCCUPATIONAL SAFETY \& HEALTH MANAGEMENT (3) Examination of the regulatory, psychological, behavioral, economic, and technical issues which impact on occupational safety and health. The design of team-based occupational safety \& health programs for managing risk is emphasized. Prerequisites: MGMT 901, MGMT 902, MGMT 903.
    MGMT 941 MANAGING THE NEW AND GROWING VENTURE (2)(ENTR 941) Develops understanding as to why some ventures (new and/or existing) achieve their goals, grow, and attract resources while others stagnate or go bankrupt. Business simulations, interactive multimedia programs, guest speakers, and field trips will be used to accomplish course objectives. Prerequisites: ACCT 901, FINC 901, and MKTG 901.
    MGMT 944 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. Prerequisites: MGMT 901, 902, 903.

