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## Programs of Study

| AREAS | DEPARTMENTS | MAJORS* | DEGREES |
| :---: | :---: | :---: | :---: |
| COLLEGE | Art | Accounting | B.S. |
|  | Biology | Art | B.A. |
|  | Business | Art Education | B.A. |
| OF | Chemistry | Biochemistry | B.S. |
|  | Communications | Biology | B.S. or B.A |
| ARTS | Computer Sciences and Computer | Biology Education | B.S. |
|  | Engineering | Business Administration | B.S. |
| AND | Education (Division of) | Chemistry ACS | B.S. |
|  | English | Chemistry, Pre-Prefessional | B.S. |
| SCIENCES | History | Environmental Chemistry | B.S. |
|  | Languages | Chemistry Education | B.S. |
|  | Mathematics | Computer Science | B.S. |
|  | Music | Computer Information Systems | B.S. |
|  | Philosophy | Computer Engineering | B.S. |
|  | Physics and Dual Degree Engineering | Dual Degree Engineering Early Childhood Education | B.A. |
|  | Political Science | Elementary Education | B.A. |
|  | Psychology | English | B.A. |
|  | Sociology | English/English Education | B.A. |
|  | Theology | French | B.A. |
|  |  | Health \& Physical Education | B.S. |
|  |  | History | B.A. |
|  |  | Language Education | B.A. |
|  |  | Mass Communications | B.A. |
|  |  | Mathematics | B.S. |
|  |  | Mathematics Education | B.S. |
|  |  | Microbiology | B.S. |
|  |  | Music | B.A. |
|  |  | Music Education | B.M. |
|  |  | Music Performance | B.M. |
|  |  | Philosophy | B.A. |
|  |  | Physics | B.S. or B.A |
|  |  | Political Science | B.A. |
|  |  | Psychology | B.S. |
|  |  | Social Studies Education | B.A. |
|  |  | Sociology | B.A. |
|  |  | Spanish | B.A. |
|  |  | Special Education | B.A. |
|  |  | Speech Pathology | B.S. |
|  |  | Statistics | B.S. |
|  |  | Theology | B.A. |

COLLEGE OF PHARMACY Pharmacy Pharm. D.

|  |  |  |
| :--- | :--- | :--- |
| GRADUATE | Administration and Supervision | M.A. |
|  | Curriculum and Instruction | M.A. |
| SCHOOL | Guidance and Counseling | M.A. |
|  | Elementary Education | M.A.T. |
|  | Special Education | M.A.T. |
|  | Secondary Education | M.A.T. |
|  | Theology | M.Th. |



# CATALOG 2004-2006 

XAVIER UNIVERSITY OF LOUISIANA<br>1 DREXEL DRIVE<br>NEW ORLEANS, LA 70125<br>504-486-7411<br>http://www.xula.edu

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The information in this catalog applies to the academic years 2004-2005 and 2005-2006. Xavier reserves the right to change without notice any of its rules and regulations, programs and courses, tuition and fees, and any other matters described in this catalog, and to make such changes applicable to students already registered as well as to new students.
Each Xavier student is held responsible for awareness of and compliance with all scholastic rules and regulations and the degree requirements in his or her program of study.
Xavier University of Louisiana admits students of any race, color, national and ethnic origin, gender, handicap, or religion to all rights, privileges, programs, and activities generally accorded or made available to students at the University. It does not discriminate on the basis of race, color, national and ethnic origin, gender, or religion in administration of its employment and educational policies, admissions policies, scholarship and loan programs, and other University-administered programs.

## General Information

## MISSION STATEMENT

Xavier University of Louisiana is Catholic and historically Black. The ultimate purpose of the University is the promotion of a more just and humane society. To this end, Xavier prepares its students to assume roles of leadership and service in society. This preparation takes place in a pluralistic teaching and learning environment that incorporates all relevant educational means, including research and community service.

## GOALS

So that they will be able to assume roles of leadership and service, Xavier graduates will be:

- prepared for continual spiritual, moral, and intellectual development;
- liberally educated in the knowledge and skills required for leadership and service; and
- educated in a major field so that they are prepared to complete graduate or professional school and to succeed in a career and in life.


## HISTORY

There are 103 historically Black colleges and 222 Catholic colleges in the United States, yet only one is both historically Black and Catholic. That distinction belongs to Xavier University of Louisiana, which strives to combine the best attributes of both its faith and its culture.

Located in New Orleans, this small liberal arts college dates back to 1915, when the coeducational secondary school from which it evolved was founded by Saint Katharine Drexel and the Sisters of the Blessed Sacrament. Mother Katharine came to the city at the request of the local archbishop to provide Blacks--at the time denied admission to existing local and state Catholic colleges--with opportunities for Catholic higher education.

Although the Sisters maintain a vital presence on campus, today Xavier is governed by an independent, lay/religious Board of Trustees on which the Sisters have representation. Its president, Dr. Norman C. Francis, himself a Xavier graduate, is a nationally recognized leader in higher education.

Even with its special mission to serve the Black, Catholic community, Xavier's doors have always been open to qualified students of any race or creed. Currently more than 56 percent of Xavier's students are of other religious affiliations and almost 12 percent are not African American.

Recent years have seen a growing influx of out-of-state students, yet one-half of Xavier's nearly 3,900 students are from Louisiana. The balance comes from some 40 states, Washington, D.C., the U.S. Virgin Islands, and 8 countries.

Prospective Xavier students can obtain academic support as early as junior high school. Highly popular and successful pre-college programs -- each designed to improve the analytical reasoning skills of students -- are offered each summer in science, mathematics and the humanities.

Enrollment has increased by more than 100 percent since 1986, with the freshman class exceeding 800 for the past several years.

Xavier students are nurtured in the type of environment available only at a small college. A full-time faculty of 236 educators, religious and lay, of diverse ethnic and racial origins - 75 percent of whom hold doctorates - provides a comfortable student/faculty ratio of $15 / 1$.

Opportunities exist for students to participate in relevant research under faculty mentors. All students are encouraged to supplement their Xavier experience by serving internships or attending summer programs at other colleges and universities.

Xavier's undergraduate curriculum is centered in the liberal arts, with all students required to take a core of prescribed courses in theology and philosophy, the arts and the humanities, communications, history and the social sciences, mathematics, and the natural sciences, in addition to more intensive work in their respective majors.

More than half of Xavier's students currently major in the natural or health sciences, especially in biology, chemistry, and pharmacy. Other popular majors include business, psychology, mass communications, political science and computer science.

Xavier is recognized as a national leader in the field of science education, and has been featured in such national publications as USA Today, The New York Times, The Washington Post, The Chronicle of Higher Education, Black Issues in Higher Education, Changing Times, Money Magazine, and U.S. News \& World Report.

Currently, there is over 18,000 Black pharmacists practicing in the United States. Xavier has produced almost 20 percent of black pharmacists receiving the Doctor of Pharmacy degree since 1995.

For the last five years, Xavier has awarded more undergraduate physical science degrees and placed more African Americans into medical school than any other college in the United States. A full 92 percent of those Xavier graduates who enter medical and dental school go on to become practicing physicians and dentists.

Although Xavier is best known for its various science programs, there are also very strong programs in the non-science areas. Xavier's education program is NCATE accredited, its Business Department is accredited by the Association of Collegiate Business Schools and Programs, its music program is accredited by the National Association of Schools of Music, and its Chemistry program is approved by the American Chemical Society; faculty in the growing creative writing program have received very prestigious national awards for their work, as have faculty in art and music. Mass communications majors have developed the Xavier Herald into the only student newspaper from a Historically Black College that is a member of the Associated Collegiate Press Hall of Fame.

Xavier graduates can be found in virtually every state and several countries. They teach and administer at schools on every level of education; they direct large corporations and small businesses; they hold leadership roles in national, state and local government; they command in the armed services, and they serve in the judicial system. They are actors, musicians, writers, engineers, counselors, social workers, and much more.

Xavier's College of Arts and Sciences, College of Pharmacy, and Graduate School offer preparation in more than three dozen fields on the undergraduate, graduate, and
professional degree level. Approximately 45 percent of Xavier's students continue their education by attending graduate or professional school.

Xavier is a member of the Gulf Coast Athletic Conference, which is affiliated with the National Association of Intercollegiate Athletics (NAIA). It offers five intercollegiate sports - basketball, cross country, tennis, track and field and volleyball - with equal opportunities for both men and women.

Tuition and room and board compare quite favorably with that of other private institutions. A variety of academic scholarships, student grants, and loans are available. More than 75 percent of all Xavier students receive some form of financial aid.

## LOCATION

It's easy to fall in love with New Orleans. One of the great cities of the world, it is internationally revered for its food, music, festivals, and people.

New Orleans' culture, like Xavier's, demonstrates unity in diversity. In New Orleans, African American traditions creatively combine with traditions as diverse as that of the Native American and the French American to create a cultural environment unlike any other in the world.

The diversity is manifest in a variety of ways. In the shadow of a growing skyline of modern skyscrapers, streetcars run on the oldest trolley line in the U.S., and charming buildings of another era stand, with their wrought iron balconies and leafy courtyards -vivid reminders of the French, Spanish, and African influence on the city.

New Orleans continues to feel the impact of other countries, as the nation's second largest port and the gateway to South and Central America. Spanish, for example, has replaced French as the city's second language.

New Orleans is living history which is not lost in the tempo of today, either in its bustling port commerce, its oil industry concentration, its growing center of financial institutions or its expanding tourist and convention activity.

Life in New Orleans has rich vitality. It can be sensed from jazz played in the city of its birth and the varied styles of New Orleans musicians.

New Orleans fosters the arts. Museums are becoming increasingly responsive to all people. Theaters thrive. There is lively interest in ballet. A full season of opera and symphony performances is also offered.

New Orleans has sports and recreational outlets too. The Louisiana Superdome is home to the N.F.L. Saints while the New Orleans Arena is the home of New Orleans' N.B.A. franchise Hornets and the arena football Voodoo. The city also hosts a minor league baseball team, the New Orleans Zephyrs. Audubon and City Parks and Lake Pontchartrain are counted among the city's recreational offerings. The Audubon Zoo and the Aquarium of the Americas are among the best of their kind.

People from all over the world come to be treated at New Orleans hospitals, which form a major medical center.

The higher education complex of New Orleans is comprised of twelve public and private colleges and universities -- twelve colleges and universities, including schools of medicine, dentistry, pharmacy, nursing, and theological seminaries.

[^0]Xavier's "campus" is, in reality, as large as New Orleans itself.
Students may cross-register for courses at several area universities. They serve internships at city hospitals, with businesses and in government offices; they student teach at area schools; they engage in work and cooperative education assignments; they perform with the local musical and theatre groups; they involve themselves in community service projects.

Students who choose Xavier get New Orleans too.

## CAMPUS

Xavier is located near the heart of New Orleans. Situated near major thoroughfares, Xavier offers easy access to several city transit lines, placing the entire city at the door step of the Xavier student.

The campus is a short distance from downtown, with its commercial, entertainment and sports offerings. A student can see the Louisiana Superdome from his or her dormitory window. Xavier is conveniently located for cross-registration at other universities and research experiences in the city's well-known hospitals and research centers. It lies adjacent to an inner city area, which serves as a learning and service site for the residential community of which it is a part.

The new University Center, the Academic/Science Complex Addition, the Library/Resource Center, and two new residence halls give the impression of a very modern campus. Yet earlier buildings, massive structures of Gothic design, give a feeling of permanence and history.

Two quadrangles - one formed by the distinctive limestone architecture of the original campus buildings and the other formed by more recent state-of-the-art construction - make up the heart of the main campus. It is here where students meet, communicate between classes, and develop lasting friendships.

All residential students live in modern residence halls, with pleasant living quarters and facilities for studying, entertaining, and TV viewing. A cafeteria and recreational areas are located in the new University Center.

A redesigned gymnasium is the home of the Gold Rush and Gold Nuggets basketball teams. Lighted tennis courts are available for students, for classes, informal play and intramural competition. An indoor covered pool is available for swimming classes and for recreational swimming.

Because Xavier is an inner city university, special care is given to providing security for its students, faculty, and staff. The campus is well lighted, and its buildings and parking areas are patrolled 24 hours a day by campus police. Central offices in each residence hall are staffed 24 hours a day. Campus security personnel also provide information and seminars about crime prevention.

## Student Life

The University offers many services, resources and programs that enhance student life experiences under the administrative supervision of the Division of Student Services. Directed by the Vice President for Student Services, Student Services departments and programs provide students opportunities to learn and develop through out-of-class experiences. Co-curricular programs coordinated by departments serve to complement the academic mission and enrich the overall educational experience of students through the interweaving of students' academic, interpersonal and developmental experiences.

## MISSION OF THE OFFICE OF STUDENT SERVICES

The Office of Student Services offers students opportunities to grow as individuals and as students. In providing these opportunities, the expectation is that students will develop broad competencies in personal growth and development, interpersonal development, leadership and service development, environmental and cultural development, and understanding and commitment to social justice for all humankind. The twelve units within the Student Services Division collaborate to accomplish the mission.

## CO-CURRICULAR ACTIVITIES

## ATHLETICS AND RECREATIONAL SPORTS

As part of the overall development of its students, Xavier provides an outstanding athletics program. Xavier has intercollegiate varsity teams in basketball, tennis and cross-country for men and women. The mascot for the men's teams is Gold Rush and Gold Nuggets for women's teams. The university also offers Campus Recreational Sports programs in intramural or club sports, fitness and informal recreation. These programs vary in skill to attract and involve students, faculty and staff with differing interests and abilities. The balanced athletic and recreational sports program is an important educational experience and provides excellent training for students in all departments of the university.

## STUDENT ACTIVITIES AND ORGANIZATIONS

The Office of Campus Activities provides leadership through its direction of a comprehensive co-curricular program that encourages the personal development of students and enhances their educational experience through student life activities. All programs are designed to provide personal growth and development for students outside the classroom.

This unit also coordinates and supervises the development of guidelines and procedures for University recognized student clubs and organizations; it also provides programs that enable and empower leadership and life skills through activities such as retreats, conferences and workshops.

## RESIDENCE LIFE

Residence hall living allows students to meet and learn from a variety of interesting people and be in the heart of campus life. Resident students at Xavier are close to the library, university center, classes, dining halls, and all the facilities, programs, and people to help students adjust and prosper at college. With over 1,600 students residing on campus, resident students will never be at a loss for people to meet and things to do.

Currently, Xavier offers seven facilities for students interested in campus residence. A new, seven-story residence hall opened in October 2004 offering double occupancy and semi-private baths. All rooms in Xavier's various residence halls come furnished with beds, desks, dressers, and wardrobes. Also included are basic cable service, laundry facilities, Internet access through a direct link to the campus network, and telephone jacks that provide on-campus and local telephone service.

New students should apply for residence through the Admissions office. Returning students apply for residence through the annual re-application process each spring for the upcoming fall. All residents who re-apply and have cleared their fiscal accounts with the university receive their residence assignment at the end of the spring semester. Those students who do not immediately receive assignments are usually assigned over the summer. Transfer students are housed on a space available basis. All residents must complete a housing contract for the academic year. Freshmen residents are not permitted to register and park automobiles on campus. The University reserves the right to use residence halls between semesters and during summer breaks. Storage is not available. All inquiries regarding housing should be addressed to the Office of Housing and Residence Life.

## CENTER FOR STUDENT LEADERSHIP AND SERVICE

The Center for Student Leadership and Service houses American Humanics/Nonprofit Management, the First Year Experience Program, New Student Orientation, Service-learning, XU LEADS (Leadership Education and Developmental Skills) and Volunteer Services. The Center for Student Leadership and Service is designed to promote student leadership and civic engagement by complementing the academic curriculum with practical application of classroom theory and methodology. The Center for Student Leadership and Service contributes directly to the University Mission by implementing programs that will prepare students to assume roles of leadership and service in society. The ultimate purpose of the Center is to educate students so that they may become facilitators of social change.

AMERICAN HUMANICS/NONPROFIT MANAGEMANT is an innovative certification program in nonprofit management. Students electing to receive this certification must participate in community service, workshops, and a 300 -hour internship. This nationally recognized program equips university students so that they will become skilled professionals and leaders in nonprofit organizations and agencies and are better prepared for graduate studies in nonprofit management.

FIRST YEAR EXPERIENCE PROGRAM (FYE) is a comprehensive program designed to provide a support system for entering freshmen through ongoing consultations and referrals, academic, cultural, recreational, and social programs throughout the year. First Year Experience Program Calendars are distributed at the beginning of each semester.

NEW STUDENT ORIENTATION serves to assist the University "new" students entering freshmen, transfers and non-traditional students - in maximizing their potential and achieving personal and academic growth. Students are provided with a suitable referral source; a vital support system away from home; and a liaison with all areas of the University community. These efforts are facilitated by PEER DEANS, student volunteers who mentor and act as liaisons to new students on campus and assist in planning Orientation. The ultimate goal is to instill in new students the importance of taking advantage of all resources available to them and becoming well-rounded students.

SERVICE-LEARNING is a teaching and learning method that connects meaningful community service with academic learning, personal growth, community involvement, and civic responsibility. It is method by which students can learn and develop through active participation in thoughtfully organized service experiences connected with an academic course. There are opportunities for participation in service-learning throughout disciplines and university departments. Service-learning is a joint effort between Student Services and Academic Affairs.

## XU LEADS (LEADERSHIP EDUCATION AND DEVELOPMENTAL

SKILLS) is designed to prepare students for leadership roles and responsibilities through the use of multiple techniques such as training workshops, community service, panel/discussion forums and retreats. Distinctive programs for the emergent leader and advanced leader develop skills in team building, ethics, conflict resolution, motivation, critical thinking, and positive regard for others. XU LEADS Calendars are distributed at the beginning of each semester.

VOLUNTEER SERVICES was established in 1988 to encourage student participation in volunteer and community service activities as a central concern of a Xavier education. Serving as both a resource center and volunteer placement office, the Center coordinates the activities of individuals and student groups wishing to volunteer, providing increased opportunities for leadership development, social awareness, personal growth and career exploration. Resources and services in this unit include: Community Service Calendar of Events, Campus-Based Service Programs, Promotional Campaigns for Annual Service Events and Group Projects, Agency Clearinghouse, and Information and Resource Library, as well as consultation and workshops. The Volunteer Center also supervises the student community service organization, MOBILIZATION AT XAVIER (M.A.X.), providing support and guidance for students initiating and participating in service projects on campus and in the local, national and international communities.

## UNIVERSITY CENTER

The University Center is a new 100,000 square-foot facility that has space to support student programs, offices, and meetings rooms. Serving as the hub of campus activity, it features offices for student organizations, conference rooms, campus mail service, a game room, campus dining services, a large study area that converts to a showcase lounge in the evenings and much more.

## INTERNATIONAL STUDENT SERVICES

This service provides assistance to enrolled students who are citizens of other countries. This includes academic and personal counseling, as well as information on visitor status. An advisor works with international students to coordinate and plan activities that include cultural exchange and participation in many interesting programs throughout the year.

## IDENTIFICATION CARDS

Identification cards are processed at registration and distributed through the Office of Student Services. Every student receives an identification (ID) card upon completion of registration. This card, in order to be valid, must bear the student's photograph along with a current semester validation sticker. The ID card should be in a student's possession at all times and is non-transferable. The card entitles the bearer admission to class, athletic events, the library, cultural activities, campus activities, and any other programs sponsored by the University. Each student is assessed $\$ 5.00$ for each current semester validation of the ID card.

For resident students, the ID card also serves as the students' meal card and must be validated by Xavier's current food service vendor.

Lost or stolen cards should be reported immediately to the Student Services Office. In order to obtain a replacement for lost ID cards, students must apply at the Student Services Office. Replacement ID cards are $\mathbf{\$ 1 0 . 0 0}$ whether lost or stolen. No ID cards will be validated for a current semester after the last day of class. Illegal use or possession of the ID card is prohibited. The ID becomes void and must be returned to the University upon withdrawal, dismissal, or suspension from the University.

## HEALTH SERVICES

The goal of the Student Health Services is to assist students in the development of good physical and mental health and provide educational information related to maintaining a healthy lifestyle.

In accordance with Louisiana's immunization law, all students are required to be immunized against measles, mumps, rubella and tetanus. A TB skin test is also required. All students enrolling at Xavier for the first time must provide proof of these immunizations prior to registration. The health clearance forms are available at the Health Center.

Meningococcal meningitis vaccination is also required for all dormitory residents, and students are encouraged to be vaccinated before they arrive on campus. Those students not immunized for meningitis can arrange to be vaccinated through the Health Center during the first month on campus for a fee.

The student health insurance is MANDATORY for ALL undergraduate students.
Physicians and nurses are on staff to provide medical attention. Dentists are also available for dental exams and prophylactic treatment. Off campus referral services are available with local and state agencies, as well as with private physicians and psychiatrists. Magazines, pamphlets and brochures concerning health issues are available at the Health Center. Discussions related to health care issues are scheduled and announced.

Students who are absent from class MUST obtain a written statement from the Student Health Services before returning to class. Students MUST notify the Student Health Services ON THE DAY OF THE ILLNESS and obtain the written statement the same week.

## COUNSELING SERVICES AND WELLNESS PROGRAM

All students may obtain professional individual and group counseling through the Counseling Center. Students are assisted by the counselors in exploring feelings, attitudes, motivation, academic abilities, study habits, time management, test taking and stress coping skills, as well as many other areas of need. Career exploration through the Strong Interest Inventory is also available.

The Counseling Center Staff includes professionally trained certified counselors and licensed clinical social workers. Referral services are available when needed. Emphasis is placed on aiding the students and on maintaining a confidential counseling relationship.

Xavier's Wellness Program for students, staff and faculty is coordinated through this office. The Wellness Program encourages students to be the best that they can be in every area of their lives -- physically, mentally, emotionally, socially, spiritually, intellectually, academically, and occupationally. Wellness programs include a Wellness Awareness Week, a Walking Club, a weight reduction group, a Wellness Video Series (consisting of information on HIV/AIDS, nutrition, stress management, smoking, drug abuse, conflict management, assertiveness training, and more). The Counseling Center also sponsors Wellness Peer Counselors, a student organization which helps other students, staff and faculty learn how to live a Wellness lifestyle.

The Counseling Center staff coordinate the Freshman Orientation Seminar, UNIV $1010 / 1020$. One of the purposes of this course is to assist students in developing the skills necessary for success in college.

The Department staff also serve as the advisors for Deciding Majors. Students who choose not to declare a major until they have more information about their own interests, abilities, and different disciplines which are available at the University, are assigned to the Deciding Majors Department. Attending departmental meetings, taking an interest inventory survey, meeting with a career counselor and potential chairperson(s) are requirements of the department. The goal is to assist each student in the decision-making process by presenting a variety of information.

## DISABILITY SERVICES

The Counseling Center provides a variety of services for students with a disability (temporary or permanent physical disability). Some of the services available include registration assistance, orientation assistance, accessibility assistance and coordination of accommodations, such as, extended time for testing and distraction-reduced environment. New students are encouraged to contact the office before beginning classes in order to make the necessary arrangements. Write to:

Xavier University Counseling Center Attn: Disability Services 1 Drexel Street/ Box 97B New Orleans, LA 70125<br>(504) 520-7315

## CAREER SERVICES

The goal of the Career Services Office is to help all students become well-informed and well-prepared to make rewarding career choices. Students may receive assistance through any of the following services: career counseling, job search techniques, resume assistance, mock interviews, on-campus interviews, interview assessment, Cooperative Education, summer internships, and part-time job listings. A variety of career-related workshops is presented during the school year. All services are available to alumni.

## CAMPUS MINISTRY

Xavier University is a Roman Catholic institution and through the Office of Campus Ministry offers religious programs and activities for the entire University community, regardless of religious affiliation. Opportunities are provided for students, faculty and staff to meet with the OCM staff to plan and prepare spiritual activities that will meet the current needs of the Xavier community. These activities fall into several areas which include: spirituality, fellowship, and community outreach. Campus Ministry programs strive to enhance spirituality and foster development of moral values, leadership and service. All activities of a religious nature must be in accord with the "Policy on Religious Activities." The OCM is located on the first floor of the Administration Building in Room 101A, next to the University Chapel.

## XAVIER UNIVERSITY FAMILY AND COMMUNITY LIFE CENTER (XUFCLC)

The XUFCLC offers several programs to help prevent and reduce violence among New Orleans' youth. This is a special initiative funded by the U.S. Department of Health and Human Services, Office of Minority Health. The XUFCLC Collaborative convenes and provides training, technical support, and assistance to community-based programs, schools, government agencies, faith communities. The Center offers after school and summer violence prevention programs for youth in which Xavier students serve as mentors and tutors to participants. The Mini-Grant for Educating Youth initiative awards mini-grants to educators who promote conflict resolution and academic achievement in students from elementary, middle, and high schools.

## UNIVERSITY POLICE

Xavier's Office of University Police is responsible for maintaining a safe and secure campus environment. Students must understand that personal safety and security begin with the individual. The University Police Office is open 24 hours per day and serves as the information center to visitors entering the campus. Officers patrol the campus on a regular schedule by foot, bicycle, and vehicles. Officers also serve as crime prevention practitioners by re-enforcing safety and security information to Xavier's students, faculty, and staff. The Office of University Police offers several crime prevention and safety awareness programs throughout the year. The Office of University Police is a sponsor of a nationally accredited crime prevention program, "Rape Aggression Defense for Women," and has two certified instructors on staff.

## GENERAL STANDARDS AND REGULATIONS

One of the goals of education is the development of the truly disciplined individual. Self-discipline is the aim of the University in its policies on student conduct. Xavier University assumes that it is a community of mature people. Xavier expects responsible and mature conduct that reflects credit upon the students and the University; Xavier requires behavior that is consistent with laws of decency and with the generally accepted morals and manners of our society.

All students are accorded freedom of inquiry and freedom of expression. They must assume, however, the responsibility for their actions and the obligations of membership in a community of individuals.

The University aims to do all it can through its various Deans, staff and faculty members to assist the student in his or her development and to encourage the best college work and conduct.

Each student is required to make himself or herself aware of policies associated with life at the University. While on or off campus, students are expected to abide by all laws (Federal, State and Municipal). Any violations of these laws or of regulations associated with university life may result in a review of the student's university status, resulting in a possible termination of that status.

In order for Xavier to maintain and achieve its educational purposes for the entire academic community, the responsibility to maintain the balance between the individual student or group rights and the general welfare is ultimately the University's. Hence, the University, in cooperation with faculty and students, will be the final judge of the excesses, the inappropriateness, or the undesirability of student conduct on campus. Concurrently, the obligation to establish and to promulgate the reasonable norms of good conduct in the Student Handbook and by other campus memoranda is also reserved to the University. All judicial committees which serve the University will be guided in their determinations and recommendations by these norms.

## STUDENT DISCIPLINE

Xavier University views its role in the administration of institutional policy as one of both ensuring fairness and consistency and providing an educational opportunity for the student. This approach protects the campus community by providing a system of educational sanctions for those violating university policies and also encourages growth and development of students through supporting the practice of responsible behavior in a community. The educational approach implies a need for understanding and self discipline on the part of the student as well as a respect for the rights and privileges of others. The focus of the judicial system is corrective and preventive rather than punitive.

The University reserves the right to request the withdrawal of any student whose personal conduct indicates an inability to achieve minimum standards of progress for personal development in the University community. All decisions in these situations will be made with regard for reasonable due process in each case. The Vice President for Student Services, or his designee, will have administrative oversight of student judicial affairs.

In cases of suspension or expulsion, the student is granted tuition and other types of refunds based upon the university's published policy on refunds.

## Cheating

Students may not receive or give assistance during examinations, plagiarize essays, term papers, etc., or obtain without authorization an examination or parts of an examination before taking the examination. Such behavior may result in disciplinary sanctions that lead to failure of the course, suspension, dismissal or expulsion from the University.

## Demonstrations

The right of peaceful protest within the Xavier community is an important aspect of the freedom to dissent. It is not, however, without certain limitations, and its protection is guaranteed only when it is exercised within responsible guidelines.

By the same standard the University is obligated to prohibit any activity or conduct promoted, staged or encouraged by a student, group of students or others when such activity jeopardizes the safety of individuals, the security of property, or disrupts, minimizes, interferes with or curtails the University, its staff members or its guests in the pursuit of its educational goals, principles or processes. The University activities would include authorized University functions, public or private meetings, normal administrative functions or service-related activities (recreation, health services or placement).

Disruptive activity, or the encouragement of such activity, exceeds the permissible limits of the freedom to protect, and all individuals involved therein or promoting same will be held responsible for such conduct as a violation of the above University right.

The University reserves the right to enjoin such violations by immediate action of any authorized administrative official.

## Sanctions

The sanctions for violations will depend upon the gravity of the circumstances, and the range of disciplinary actions may extend as high as dismissal from the University.

## Censure

A censure is an official written notification to the student that his/her behavior is unacceptable and inappropriate for a student at Xavier. Any further misconduct will result in the evaluation of his/her status as a student at Xavier University.

## Disciplinary Probation

Disciplinary probation indicates to a student that his/her behavior has not met certain standards expected of students at Xavier. The student is excluded from participation in privileges or extracurricular university activities as set forth during his/her disciplinary probation. $\mathrm{He} /$ she is prohibited from election to a university office and must relinquish any office currently held. Involvement in further misconduct subjects the student to suspension or dismissal from the University.

## Suspension

Suspension prohibits a student from attending classes or any activities on campus for a definite period of time. Students who have been suspended for disciplinary reasons must petition for re-enrollment after their suspension through the Office of the Vice President for Student Services.

## Interim or Emergency Suspension

This suspension shall be invoked when officials are faced with an immediate situation where the facts indicate that a student's continued presence on campus constitutes a clear and convincing danger to the normal functions of the University, to property, to others, or to the student him/herself. In such situations, the University shall suspend the student(s) immediately on an emergency basis.

The suspended student shall have the right to appeal this decision immediately to the Vice President for Student Services until normal student judicial procedures are implemented.

## Dismissal

This disciplinary action terminates a student's status for an indefinite period.

## Expulsion

Expulsion is a permanent release from the University without the privilege of readmission.

The University further reserves the right to notify civil authorities whenever the student is guilty of, or charged with, violating civil law.

The administrative officer or judicial board may impose other sanctions deemed appropriate.

## Sanctions and Notification of Parents

NOTE: When a student is placed on disciplinary probation, emergency suspension, disciplinary suspension, expulsion or loss of housing privileges, the student's parents or legal guardian(s) will be notified concerning the disciplinary action unless the student can prove independent status. The notification will specify when the violations involve the alcohol or drug policy. Students who do not complete sanctions by the assigned due date will not be returned to "good standing" status until the sanctions are completed.

For violations of the Academic Honor Code for which students are found responsible, the Xavier Hearing Committee may recommend an "F" for the assignment or class involving the violation; the professor may choose to accept or reject this recommendation.

## Admissions

## ADMISSION REQUIREMENTS AND PROCEDURE

Admission decisions are made without regard to religion, gender, race, creed, color, national origin or handicap. These decisions are made by the Committee on Admissions. The University attempts to enroll a diverse class of students each semester.

Deadlines: Applications and supporting documents must be submitted by the following dates:

|  | FALL | SPRING |
| :--- | :---: | :---: |
| FRESHMEN | March 1 | December 1 |
| TRANSFERS | June 1 | December 1 |
| PHARMACY | January 1 | NONE |

** College of Pharmacy acceptances are made for fall term only.
Applications for admission received after the deadline will be considered provided there are slots available in the in-coming class.

The following are needed for freshman applicants:

1. An application for admission. A fee of $\$ 25$ (non-refundable) should accompany the application.

The University expects that answers to all questions on the application be accurate and truthful. Any falsification of information in the application may result in denial of admission or University disciplinary action.
2. A transcript of credits from a regionally- and/or state-accredited high school indicating that the applicant has, or will complete, a minimum of sixteen academic units of secondary school work in college preparatory subjects, which include:

| English. | 4 units |
| :---: | :---: |
| Mathematics........................... | 2 units (including Algebra) |
| Science.................................. | 1 unit |
| Social Science ............................. | 1 unit |
| Languages or | 8 units |

Students interested in majoring in any of the mathematics-related fields (accounting, computer science, mathematics, mathematics education, or any of the natural sciences) ideally should have four years of college preparatory mathematics courses, including two years of algebra, one of geometry, and at least one semester of trigonometry. It is recommended that natural science majors, in addition to the above-mentioned mathematics courses, should also take biology, chemistry and physics in high school.

In special instances where one or more of the required documents are unfavorable or the high school is unaccredited, the applicant may be admitted on a restricted schedule at the discretion of the Committee on Admissions.

Veterans and other applicants who have not completed a regular high school program but who have taken the General Education Development test and obtained satisfactory grades may be admitted by presenting a high school equivalency certificate in lieu of a complete high school transcript. These certificates may be obtained through a student's State Department of Education.
3. Scores from the Scholastic Assessment Test (SAT) or the American College Testing Program (ACT). Scores from tests taken between April of the junior year and January of the senior year are preferred.

## 4. Recommendation from high school counselor.

## TRANSFER STUDENTS

A student transferring from an accredited institution must present an official copy of his/her transcript from each college-level institution attended. Secondary school records and standardized test results (ACT or SAT) may be required if the applicant has fewer than 20 semester hours of transferable credit. A recommendation from an appropriate university official (e.g., Registrar, Academic Dean, the Dean of Students, etc.) at each institution attended as a full-time student may also be required. The transfer applicant should be in good standing with the institution or eligible to return to it. A resume' or statement of activities may be required to account for extended periods of non-enrollment. Additional requirements may apply for admission to the College of Pharmacy.

Upon notification of his/her acceptance for admission, an applicant will be required to submit a deposit which will indicate intent to attend the University. This deposit is deductible from tuition, fees, books, etc. and is in addition to any room deposit required of boarding students.

Health Clearance is required. After notification of acceptance, students will be sent medical forms by the University Health Service. The forms must be completed as per instructions by the appropriate deadline. The immunization form (Form \#60) requires date, test results and the signature of a physician or nurse.

Prior to enrollment, accepted freshmen must submit a final high school transcript that certifies graduation from high school. Transfer students must submit transcripts of work that was in progress at the time of admission.

The University grants transfer credits only for courses in which the student has received a grade of " C " or better and which are comparable to Xavier courses. Not more than one-half of the credits required for the degree may be transferred from a community and/or junior college.

A degree will be conferred by the University only after the applicant has fulfilled the requirement of at least $25 \%$ of course credit in residence, eighteen hours of which must be in the major with a grade of "C" or better in each course.

All transfer students who have fewer than 30 semester hours, and those who have not taken a freshman orientation or study skills course at another institution, must take UNIV 1010-1020. Successful completion of the courses is necessary for graduation.

## INTERNATIONAL STUDENTS

In order to be considered for admission to the University, applicants should submit the following items prior to the deadline:

## 1. OFFICIAL school records/transcript;

## 2. Letter of Recommendation from a secondary school official;

## 3. Original certificate of national examination taken by the student;

4. Notarized Affidavit of Support indicating who will pay the cost of attendance;
5. Non-English speaking natives are required to submit official TOEFL (Test of English as a Foreign Language) scores.

## APPLICATION DEADLINES ARE MARCH 1 FOR THE SUMMER OR FALL TERMS AND SEPTEMBER 1 FOR THE SPRING TERM.

The I-20 form for immigration purposes will not be issued until ALL the abovelisted conditions have been satisfied. Students have found it beneficial in expediting passport procedures to have these requirements satisfied from six to twelve months prior to their intended date of departure. If an applicant has had previous college work outside the United States, the applicant must have his/her records evaluated by a private agency. The recommended agency is listed below with its address.

> Foreign Credential Education Service
> P.O. Box 92970
> Milwaukee, WI 53202-0970
> (414) 289-3400

An applicant must contact this agency and request an application form.
Only citizens of the United States are eligible to receive Federal financial assistance. Therefore, foreign student aid is not available through Xavier University. However, in exceptional circumstances a foreign student can apply for an off-campus employment permit through the Intercultural and International Center, which acts as a liaison between Xavier University and the U.S. Immigration and Naturalization Service. It is the responsibility of the individual student to abide by all Immigration and Naturalization Service regulations.

## VETERANS

Xavier University is approved for the training of Veterans, War Orphans, and Children of Veterans under those provisions of law currently enforced. Returning veterans should obtain from their local Veterans Administration Office a Certificate of Eligibility to be presented to the Registrar for completion.

1. Veterans and others eligible for benefits under this legislation must comply with and meet all standards as set forth in this catalog and in particular those regarding:
a) Probation and Dismissal
b) Attendance
c) Conduct
d) Withdrawal
2. No veteran will be considered to have made satisfactory progress when he/she fails or withdraws from all subjects undertaken when enrolled in two or more subjects.
3. A veteran transferring from another institution will not be certified to the V.A. unless he/she has been counseled by the V.A., if he/she was suspended for unsatisfactory progress or conduct.
4. A veteran student suspended from this institution will not be certified to the V.A. until counseled by the V.A. professional counselor.
5. A veteran who takes a course that does not count toward the chosen objective (normally a degree) is not considered to be making progress. A veteran cannot repeat a course he or she has passed unless his/her program requires a higher grade (e.g., a grade of " C " or better).

## TRANSIENT STUDENTS

A transient student is a student currently enrolled in another college or university who wishes to take courses at Xavier for the purpose of transferring the credits earned to that college or university. To be eligible to register, a transient student must present to the Registrar a letter of good standing from his/her college dean or other appropriate university official.

## SUMMER SESSION

Admission to the summer session is governed by the same general requirements as for admission during the regular academic year. Transfer students who will be attending Xavier for the first time during a summer session should apply for admission by May 1. Transient students must present a letter of good standing from the dean or other appropriate official of the institution where they are pursuing a degree. Freshmen students accepted for the fall semester may also attend the summer session.

The following academic policies are in effect during the summer session:

1. The University reserves the right to cancel any summer course for which there are fewer than ten students registered (twenty students in non-degree courses).
2. Undergraduate students are classified as full-time students in a summer session if they enroll for six semester hours.
3. Students who wish to enroll for more than 7 semester hours in a five-week session must obtain written permission from their chairperson.
4. Students who register after the registration period will be required to pay a late registration fee of $\$ 100.00$. Students will not be allowed to register after the third day of classes.
5. An official withdrawal from class must be approved in writing by the student's advisor, as well as the instructor of the class, prior to the beginning of the third week.
6. The grade of I (Incomplete) is usually not given in any undergraduate course offered during the summer session.

## REGISTRATION

The days assigned for both August and January registration are to be found on the University calendar. Registration is not complete until the fees for the semester have been settled to the satisfaction of the Fiscal Department. Until such settlement has been made, the student is not entitled to attendance in any class or to any individual instruction.

Students are held responsible for the selection of their courses in meeting degree and certification requirements. Although there are many opportunities to obtain guidance from academic advisors and from departmental chairpersons, students must assume the final and complete responsibility for the selection of courses and for proper registration.

After a student has registered, he/she is expected to attend all classes in accordance with the program recorded on the official registration form. All changes in schedule must be approved by the student's departmental chairperson or advisor on or before the date indicated on the academic calendar. No change in class section or course is valid or official unless it is recorded with the Registrar. A fee will be charged for this service.

Courses dropped without following the above procedure will be assigned a grade of "F".

In order to register later than the last date assigned for registration on the University calendar, a student must receive permission from the appropriate Dean and pay the late registration fee.

The University expects that answers to all questions on the registration records be accurate and truthful. Any failure in this regard may subject the student to censure for falsification of records.

## COURSE PLACEMENT

The Office of Admissions at Xavier University has the initial responsibility for placement of students entering the University. SAT/ACT, high school gpa in selected courses, and placement tests in English, mathematics, and reading are the main tools in this placement. Results of these tests are used to place students into regular, honors, or developmental freshman courses.

All entering freshmen whose ACT or SAT scores indicate that further testing is warranted should take placement tests in the recommended areas. Also, transfer students with fewer than 60 semester hours, or whose academic program at Xavier still requires courses in mathematics or English, may be required to take placement tests. Students who do not take the tests in the recommended areas will be required to take developmental courses in those areas.

Failure of a placement test in any area invalidates transfer credit in that area.

## ADVANCED PLACEMENT (AP) AND INTERNATIONAL BACCALAURATE (IB) CREDIT

Students with AP scores of 3 or higher can generally get college credit for the appropriate course at Xavier. College credit is also awarded for students who participated in IB programs and made the scores required by Xavier. Some medical and dental schools do not accept credit for AP and IB. Therefore, students should consult with their academic advisor regarding these courses. In order to receive credit, students should have AP or IB scores sent to the Admissions Office.

In addition, Xavier's Department of Mathematics provides the Advanced Mathematics Placement Test. An appropriate math score on the ACT or SAT allows a student to by-pass Precalculus (MATH 1030) and enter Calculus (MATH 1070). Upon receiving a grade of "C" or better in MATH 1070 taken at Xavier University of LA, the student will receive 4 semester hours of credit for MATH 1030. Moreover, students may by-pass ENGL 1010 by obtaining a superior score on the ACT English sub-test.

## CREDIT BY EXAMINATION

Credit may also be awarded in certain subject matter areas on the basis of the College Level Examination Program (CLEP) Subject Examinations. However, credit will not be awarded on the basis of CLEP General Examinations. For information regarding which CLEP subject exams are honored by the University, the minimum passing scores, and their equivalent courses, contact the Office of the Dean of the College of Arts and Sciences.

A maximum of thirty semester hours of credit by examination will be accepted toward the degree.

## CONCURRENT ENROLLMENT

THE XAVIER UNIVERSITY CONCURRENT ENROLLMENT PROGRAM allows a limited number of local high school seniors with high-level academic ability to advance their college careers by earning up to 12 semester hours of credit. For further information, contact the Admissions Office.

## Tuition, Fees \& Expenses

## PAYMENT

Students should be prepared to pay tuition, fees and other charges at the time of registration. A deferred payment plan is available, however, for those students who wish to pay in installments.

The Payment Plan permits payments of accounts as follows:
Fall Semester - At the time of registration, a $50 \%$ down payment after a student's Financial Aid is calculated is due. Of the remaining balance, $50 \%$ is due on or before September $30^{\text {th }}$ and, of that remaining balance, the other $50 \%$ is due on or before October $30^{\text {th }}$.

Spring Semester - At the time of registration, a $50 \%$ down payment after a student's Financial Aid is calculated is due. Of the remaining balance, $50 \%$ is due on or before February $28^{\text {th }}$ and, of that remaining balance, the other $50 \%$ is due on or before March $30^{\text {th }}$.

A finance charge of $1.5 \%$ (annual percentage rate of $18 \%$ ) shall be charged each month on the unpaid balance. In the event of non-payment of any one or more installments, all unpaid installments become due and payable, without demand or notice. The University reserves the right to terminate the enrollment of any student who fails to make timely payments of any installment. Reinstatement upon payment of a delinquent balance shall be at the discretion of the University, provided that academic restrictions regarding absence have not been exceeded.

Full-term charges are made in the case of students who enter after the semester has begun. No student is entitled to receive a grade, degree, statement of honorable dismissal, or transcript of record, while any account balance is unpaid.

No refunds are made for Thanksgiving, Christmas, or Easter vacations, or for holidays.

A late fee of $\$ 100$ will be charged to the student's account for any remaining payments after registration that were not made in accordance with the monthly payment plan.

## *TUITION AND FEES

Tuition
Per Semester
College of Arts and Science
Full Time (12-18 hrs.) ..... \$5,650
Part Time (less than 12 hrs .) per hr ..... 475
Overload (over 18 hours) per hr ..... 325
College of Pharmacy (Pharm. D.)-- A. \& S. rate 1st two years
Full Time (12-18 hrs.) ..... \$7,400
Part Time (less than 12 hrs .) per hr ..... 650
Overload (over 18 hours) per hr ..... 460
Preceptors per hr ..... 325
P4 Clerkship Fee ..... 520
Graduate School
Per semester hour ..... 220
Drexel Center
Per semester hour ..... 85
Other Fees
Identification Card (per semester) ..... \$10
Student Health Insurance (annual rate) ..... 300
Application fee (payable once) ..... 25
Yearbook (one semester only) ..... 25
Freshman Orientation Fee (one semester only) ..... 150
Student Government Association Dues (per semester) FT/PT ..... 40/20
Applied Music fee
1 Semester Hour ..... 75
2 Semester Hours ..... 150
3 Semester Hours or more ..... 225
Student teaching ..... 200
Graduation fee ..... 100
In absentia ..... 125
Lab Fees (per course): Arts and Sciences ..... 50
Pharmacy ..... 50
Mass Communications ..... 10
Pharmacy Module Fee (All Pharmacy students) ..... 25
Late Registration (payable in cash at registration) ..... 100
Information Technology Fee (per semester)
Full Time ..... 200
Part Time ..... 100
Course Change (per form) ..... 10
Transcript-First one free
Subsequent ..... 2
In quantity First one ..... 2
Others ..... 1
*Tuition and Fees are for the 2004-2005 academic year and are subject to change in future years.

| Missed Installment | 100 |
| :--- | ---: |
| Interest |  |
| $1.5 \%$ per month on the unpaid balance as of the invoice date |  |
| Returned N. S. F. checks |  |
| Campus accommodations |  |
| Room Reservation /Security Deposit | 300 |
| Summer Room Reservation Fee (Non-refundable) | 50 |
|  |  |
| Room plus Board (per semester) | 3,100 |
| St. Michael's /Katharine Drexel /St. Joseph's* | 3,550 |
| *Private Room | 3,400 |
| House of Studies | 3,250 |
| Claver Hall | $3,350-3,800$ |
| Living/Learning Center | $3,450-4,000$ |
| St. Martin de Porres | 1,350 |
| Meal Plan Only |  |

## REFUND POLICY

Refunds are available to students who have withdrawn officially from the University. The withdrawal date shall be determined by the appropriate University Official in the Fiscal Office.

## REFUNDS OF TUITION AND FEES

Two refund methods are used: the Xavier University Institutional Policy and the Federal Government Refund Policy.

| If Student Withdraws: | X.U. Policy |
| :--- | :---: |
|  |  |
| Before classes begin | $100 \%$ |
| Within week 1 | $75 \%$ |
| Within week 2 | $50 \%$ |
| Within week 3 | $50 \%$ |
| Within week 4 | $50 \%$ |
| After week 4 | $0 \%$ |

For those students who have registered at the University with the assistance of Federal Financial Aid, the following policy applies:

Tuition and some fees are credited to the students' accounts based on the percentage of the enrollment period completed (up to $60 \%$ ). The percentage to be credited is determined by dividing the number of days remaining in the enrollment period by the number of days in the enrollment period.

## ROOM AND BOARD CHARGES

No refund is given for dormitory rooms. Board charges are refunded on a pro-rata daily basis of 17 weeks per semester.

## ALLOCATING A PORTION OF THE REFUND TO STUDENT AID PROGRAMS

In the case of those students who have registered at the University with the assistance of Federal financial aid, government regulations determine what portion of the calculated refund must be returned to the Title IV Financial Aid Programs. Government regulations also specify the order in which monies will be refunded to the aid programs and the student. The University must distribute the refund in the following order:

1. Unsubsidized Stafford Loans
2. Subsidized Stafford Loans
3. Unsubsidized Direct Loans
4. Subsidized Direct Loans
5. Federal Perkins Loans
6. Federal PLUS Loans
7. Direct PLUS Loans
8. Federal PELL Grants
9. Federal Supplemental Educational Opportunity Grant (FSEOG)
10. Other Title IV Programs

Examples of the refund policy and calculations are readily available to students upon request in the Office of Student Accounts located in Xavier South, Room 300.

Any changes to this policy will be distributed to all students and made available to the public in the Admissions Office, the Office of the Registrar, and the Office of Student Accounts.

## FINANCIAL AID

## Introduction

Xavier has traditionally offered the opportunity of a college education to academically qualified students, regardless of the financial resources of the student or the student's family. Although Xavier feels that the student and family have the responsibility to contribute to the cost of a college education, the University is prepared to provide financial assistance. In fact, $80 \%$ of the students attending Xavier receive some financial aid.

## Sources of Financial Aid

Money for a student's financial aid package comes primarily from four sources -the federal government, the state government, Xavier University, and private programs. The federal government supplies the majority of financial aid. Federal grant programs include: the Federal Pell Grant and the Federal Supplemental Opportunity Grants (FSEOG). Loans include: the Federal Perkins Loans, Federal Direct Student Loans, and Federal Direct Unsubsidized Loans, Federal Subsidized Student Loans, Federal Unsubsidized Loans, the Federal Parent Loans (PLUS), and the Federal Direct PLUS Loans. The Federal College Work-Study Program provides work aid. The State of Louisiana offers Leveraging Education Assistance Partnerships (LEAP), formerly the SSIG.

## How to Apply for Financial Aid

All students must apply for financial aid using the Free Application for Federal Student Aid Form to determine their eligibility for aid (including all loans). Financial aid applications may be obtained from your high school counselor's office or the Office of Financial Aid at Xavier. Forms must be completed by the student and his/her parents and they must be mailed to the need analysis service or file an application on the web at www.fafsa.ed.gov.

## When to Apply

All students must file for financial aid as soon as possible after January 1 of each year. Follow all instructions carefully when completing the forms. The student will receive a Student Aid Report (SAR) as a result of filing.

The Office of Financial Aid at Xavier University will work with the student to help him/her identify ways to finance his/her college education, but may have limited options because of federal regulations or a shortage of funds.

## How Eligibility for Financial Aid is Determined

The eligibility for financial aid is determined by the Federal Government Central Processing Center using the information provided by the parents and students on the Financial Aid Application. Once a student files the Federal Financial Application using Xavier University's school code (002032), the Financial Aid Office will receive the student's records electronically. The counselors then evaluate the records and if valid, an Award Notification letter will be mailed to the students. The letter will offer all financial aid that the student was determined eligible to receive. If the records are invalid or rejected, the student and/or parents must provide the requested required documents before award notification may be mailed.

The Award Notification letter must be signed by the student indicating acceptance or denial of the financial aid award and returned to the Financial Aid Office. All financial aid is awarded on a "first come, first served" basis and on the availability of funds. In addition, students must meet the Standards for Satisfactory Academic Progress.

## Satisfactory Academic Progress Policy for Financial Aid Eligibility

Federal regulations require all students receiving Federal Title IV financial aid funds to maintain standards of satisfactory academic progress in the pursuit of their degree. Satisfactory Academic Progress (SAP) is defined as a set of standards of academic success, which includes qualitative (g.p.a.) and quantitative (number of hours completed) measures that a student must maintain to retain eligibility for federal financial aid. The maximum time frame for completing an undergraduate degree cannot exceed $150 \%$ of the published length of the student's program of study measured in credit hours attempted (128 hours X $1.5=192$ hours, or higher for programs in excess of 128). SAP is monitored annually - at the conclusion of the spring semester for the preceding summer/fall/spring academic year.

First-year students who fail to meet SAP standards will be placed on financial-aid probation and continue to receive financial aid for two semesters. During the probationary year (the second year in college) the student must pass 24 hours of coursework and earn a semester g.p.a. of 2.0. Probationary students may also attend summer school to meet satisfactory progress requirements. Students who fail to meet the above standards will have their financial aid eligibility suspended.

## NOTE: Federal regulations require that remedial courses be taken in the first two years of matriculation.

## Guidelines

Fulltime (12+ hours per semester) students will be allowed six academic years in which to complete a degree. Part-time students will be considered on a pro rata basis equivalent to requirements of full-time students. The number of hours in which a student is enrolled on the first day following the end of the add/drop period will be the official number of hours used to determine full-time or part-time status. Full-time students who drop below 12 semester hours following this date will still be considered full-time students for financial aid eligibility. Satisfactory Academic Progress for financial aid eligibility requires that the student's ratio of completed (earned) semester credit hours versus the student's enrolled (attempted) semester credit hours at end of drop/add period adhere to the following guidelines:

Attempted Hours
$0-25$ credit hours
$26-50$ credit hours
$51-75$ credit hours
76 - 100 credit hours 101-125 credit hours 125 and above credit hours

Hours Passed
$50 \%$ of attempted hours
$50 \%$ of attempted hours
$55 \%$ of attempted hours
$60 \%$ of attempted hours
$65 \%$ of attempted hours
$70 \%$ of attempted hours

Students are expected to achieve a 2.0 or better cumulative GPA and to complete $50 \%$ of the enrolled semester credit hours at the end of the first two years of matriculation. Hours attempted and hours completed in summer school will be included in calculation of eligibility.

Students who fail to make satisfactory progress at the end of the first four semesters will be ineligible for federal financial aid until the deficiency is corrected.

Pharmacy students in P1 and P2 years follow the above guidelines for undergraduate students. P3 \& P4 Pharmacy students are considered graduate students and must complete $75 \%$ of courses attempted and maintain a 2.0 g.p.a.

Transfer students will be evaluated on the enrolled attempted hours, enrollment status and cumulative grade point average at Xavier plus the transfer hours, which will be added to the attempted and completed hours.

## Appeals Process

Students whose financial aid eligibility has been suspended due to failure to meet the above criteria may appeal their ineligibility if there are mitigating circumstances. Mitigating circumstances are defined as a change in grades or major, serious illness or injury, death of a family member or similar traumatic event. The appeal must be filed in writing within six weeks of notification of ineligibility. Students who appeal must use the Satisfactory Academic Progress (SAP) Appeal Form found on the Financial Aid website. All appeals must include supporting documentation (grade or major change form/s, doctor's statement, death certificate, etc.) and an academic plan to regain eligibility. The appeal may not be based on the student's need for the funds nor the lack of knowledge that eligibility for financial aid was in jeopardy. The Financial Aid Appeal Committee will review the appeal within two weeks of the deadline for filing all appeals provided all necessary documentation has been submitted; the students will be notified of the committee's decision by mail. The Committee will not review Appeal Forms that are incomplete and/or lacking the required verification. The completed SAP Appeal Form should be sent to: Director, Academic Support Programs; Xavier University of Louisiana; Box 51; 1 Drexel Drive; New Orleans, LA 70125.

If the appeal is denied, the student may continue at his/her expense in order to regain his/her eligibility. Students will automatically be reinstated once they have completed an academic year with Satisfactory Academic Progress.

For additional information, students should refer to the web or the Financial Aid Publication on Satisfactory Academic Progress.

## Types of Financial Aid Available

## Scholarships

1. Academic Scholarships -- All freshmen are automatically considered for Xavier University Scholarships at the time of their application for admission. A number of factors determine the decision, primarily high school grade point average (computed on academic subjects only) and standardized test scores, as well as extracurricular involvement and a counselor's recommendation.
NOTE: These awards are renewable annually for three (3) additional years provided the student maintains an average of: 3.0 at the end of the freshman year, 3.3 at the end of the sophomore year, and 3.5 at the end of the junior year.

As a member of the United Negro College Fund, Xavier University receives various scholarship opportunities throughout the academic year. These competitive scholarship opportunities are available to all students enrolled at Xavier who meet the specific eligibility criteria determined by the donor.

Scholarships are coordinated through the Office of the Vice President for Academic Affairs. Enrolled students should contact this office for information regarding various scholarship opportunities and consult the Scholarship Opportunities Bulletin Board and web site once they arrive on campus.
2. Rousseve Scholarships. Named in honor of the Rousseve family, outstanding alumni and supporters of Xavier University, the Rousseve Scholars Program offers high achieving students from all disciplines in the University an opportunity to receive a full tuition scholarship and a $\$ 250$ book allowance for an academic year. The top ten students in the sophomore, junior and senior classes are selected annually on the basis of the previous two semesters' GPA and, if necessary to break ties, the cumulative GPA (for sophomores the high school GPA is used). Eligibility guidelines require that students take the appropriate number of semester hours for advancement to the next classification level and have no grades of F's, U's, or W's (only W's after the first two weeks of classes are considered) during the academic year. Transfer students are not eligible.
3. Achievement Scholarships. Continuing students who have not received Academic and/or Rousseve Scholarships are eligible to apply for Achievement Scholarships as they become available. A limited amount of scholarship funds are available for students who demonstrate significant academic achievement, and verifiable financial need. These scholarships may be renewed, and the award amounts vary from year to year.

Included in this category are:

- The Michael Jordan Achievement Scholarship
- The Teagle Scholarship
- The W. Randolph Hearst Scholarship
- The William and Camille Cosby Scholarship

4. Corporate/Privately Funded Scholarships. There are several scholarship opportunities that are funded by corporations, foundations, civic and social organizations, etc. The donors and sponsors establish the criteria for which funds will be awarded. Most of these scholarships are highly competitive, and students are often required to participate in an extensive application process. Other opportunities are based on nomination of students by faculty, staff, and administrators. These scholarships are usually merit based or some combination of merit and need.

Scholarships in this category include but are not limited to the following:

- Harcourt Scholarship
- Luard Scholarship
- GNOF Ratepayers Scholarship
- Beinecke Memorial Scholarship
- Lettie Pate Whitehead Scholarship

5. Talent Scholarships (Full or Partial Tuition) are awarded on the basis of:
a) Art talent or
b) Athletic talent in men's or women's basketball or
c) Music talent.

NOTE: These awards are renewable annually for three additional years provided the student maintains a satisfactory academic record and continues to demonstrate progress in the development of his/her talent
6. Other Scholarships. Because Xavier's scholarship resources are limited, students are encouraged to seek external scholarship funding. The University often receives announcements from third-party organizations about scholarships that are offered through these organizations. It is the policy of the University to offer students support and assistance in applying for scholarships from credible sources.
7. A variety of ROTC (Air Force, Army, and Navy) scholarships are offered to Xavier students along with university incentives and supplements. These scholarships are offered through the respective service departments which are located on the Tulane University campus. These scholarships provide tuition assistance, a textbook allowance, and a monthly subsistence allowance. More information can be obtained from the service departments located at Tulane University. The Tulane information number is (504) 865-5000.

## Grants (These do not have to be repaid.)

1. Federal Pell Grants -- A federally-funded program for undergraduate students; eligibility ranges from $\$ 200$ to $\$ 4,000$ per academic year.
2. Federal Supplemental Educational Opportunity Grants (FSEOG) -- A federally-funded program for undergraduate students; eligibility ranges from $\$ 200$ to $\$ 4,000$ per academic year.
3. Leveraging Education Assistance Partnership (LEAP) -- Available to qualified residents of the State of Louisiana who have financial need.

## Loans (These must be repaid.)

1. Federal Perkins Loan -- This loan is available to students who have demonstrated financial need and who are enrolled for a minimum of six (6) semester hours (half-time enrollment). Eligible students may borrow from \$200 to $\$ 4,000$ towards their education. Repayment of this low interest (5\%) loan begins nine (9) months after graduation or termination of studies at Xavier.
2. Federal Direct Loans (i.e., Federal Direct Subsidized, Federal Direct Unsubsidized, Federal Direct PLUS) --- The Federal Direct Loan Program enables students to borrow directly from the federal government through Xavier to finance their education. The motto is "One-Stop Shopping for your Loans." A student must be enrolled at least half-time ( 6 semester hours) to qualify and must have an unmet need. The loan limits for the Federal Direct Loans are the same as the limits for the Federal Stafford Loans.

First-year undergraduate students may borrow a maximum of $\$ 2,625$ per academic year. Second-year undergraduate students may borrow a maximum of \$3,500 per academic year; and undergraduates who have completed two (2) years of their program of study may borrow a maximum of $\$ 5,500$ per academic year. Graduate/Professional students may borrow a maximum of $\$ 8,500$ per academic year. Loan repayment begins six (6) months after the student graduates, withdraws from the University, or drops below half-time enrollment.
3. Federal Subsidized Stafford Loans --- The Subsidized Stafford Loan Program enables students to borrow directly from lenders (i.e., banks, credit unions, etc.) to finance their educational expenses. A student must be enrolled at least halftime ( 6 semester hours) and must have an unmet need to qualify.

First-year undergraduate students may borrow a maximum of $\$ 2,626$ per academic year. Second-year undergraduate students may borrow a maximum of \$3,500 per academic year; and undergraduates who have completed two (2) years of their program of study may borrow a maximum of $\$ 5,500$ per academic year. Graduate/Professional students may borrow a maximum of $\$ 8,500$ per academic year. Loan repayment begins six (6) months after the student graduates, withdraws from the University, or drops below half-time enrollment.
4. Federal Unsubsidized Stafford Loans --- The Federal Unsubsidized Stafford Loan Program is offered to students who do not qualify for the Federal Subsidized Stafford Loan Program or who only qualify for a portion of a Federal Subsidized Stafford Loan. Also, eligible students must be enrolled at least halftime. Interest payments may be paid monthly while enrolled or may be capitalized on the principal balance. The combined loan totals of the Subsidized and Unsubsidized Stafford Loans cannot exceed the annual loan limits of the federal loan program. (See above for maximum amounts to be borrowed under Federal Subsidized Stafford Loans.) In some cases, students may qualify for additional amounts of an Unsubsidized Stafford Loan (called Non-Need-Based Federal Unsubsidized Stafford Loan) to supplement the Federal Subsidized Stafford Loan. The interest rate on the unsubsidized loans is variable.
5. Federal Parent Loan for Undergraduate Students (PLUS) -- The PLUS loan enables the parents to borrow on behalf of a dependent undergraduate student to defray his/her educational expenses. The interest rate is variable and repayment of the principal and interest begins sixty (60) days after loan proceeds are disbursed.
6. Health Professions Loan Program (HPLP) --- This loan is available only to students who are enrolled in the College of Pharmacy. For more information on this loan programs, contact Xavier's Office of Financial Aid.

## Jobs

Federal College Work-Study Program (FWS) -- This is a federally-funded program that provides jobs for undergraduate students. These jobs give the students the chance to earn money to help pay for their educational expenses. FWS awards are based on need and the availability of funds.

## Academic Information

## CREDITS, GRADES AND QUALITY POINTS

A student's academic progress is measured quantitatively in terms of semester hours and qualitatively in terms of quality points.

A semester hour is the unit for computing the amount of work required for graduation. This is equivalent to one hour of lecture per week for one semester. Two to three hours of laboratory work are equivalent to one hour of lecture.

Quality points are computed according to the grade the student receives. The scale of grades and points is as follows:

| Grade |  | Quality Points <br> per Semester Hour |
| :---: | :--- | :---: |
| A | (Excellent) | 4 |
| B | (Good) | 3 |
| C | (Average) | 2 |
| D | (Passing) | 1 |
| F | (Failure) | 0 |
| FE | (Failure because of excessive absence*) | 0 |
| W\$ | (Failure) | 0 |


#### Abstract

*Absence is considered excessive when the number of absences exceeds twice the number of times the class meets per week. The total number of absences includes days missed because of late registration or late enrollment in the course. This policy applies in all 1000 level courses, all developmental courses, and UNIV 1010/1020 courses.


A temporary grade of "I" (incomplete), unless changed before the end of the sixth week of the semester following the one in which it was incurred, becomes "F". Ordinarily, a student who receives an "I" at the end of the spring semester should complete the work before the end of the first summer school session.

Xavier classes begin on the first day of the semester. In each course a syllabus is distributed, attendance is taken, and the initial content of the course is covered at the first class. If a student must change courses or sections of courses at the beginning of the semester, he/she: 1) is counted as absent until the professor is given documentation of completed registration and enrollment, and 2) is responsible for securing the syllabus and for becoming aware of the content covered in the missed classes. Absences experienced due to late registration into a course are included in determining the FE grade.

A student's cumulative average is computed by dividing the total number of quality points earned by the total number of semester hours graded. Only courses taken at Xavier University or part of the Consortium or some other approved program (such as Engineering at Tulane, Biostatistics at LSUHSC) are used in computing the average.

A cumulative average of 2.0 , computed as defined above, is required for good academic standing and for the granting of a degree. Students academically dismissed are not in good academic standing. Usually only the highest grade in courses offered for the degree will be considered. Ordinarily, a student will not be permitted to repeat a course more than once.

For all other purposes (e.g., in determining eligibility for holding office or graduating with honors), a student's average is computed by dividing the total points earned by the total semester hours graded on the college level at Xavier, exclusive of authorized withdrawals.

## FRESHMAN ORIENTATION SEMINAR (UNIV 1010-1020)

All freshmen and transfer students who have less than 30 semester hours, and those who have not taken a freshman orientation or study skills course at another institution, must take UNIV 1010-1020. Successful completion of the courses is necessary for graduation.

## TRANSFER OF CREDITS

Current students (including those in exchange programs and those who have attended the spring semester and then wish to attend summer school at another institution) must follow the procedures below in order to transfer credits from another institution. Credit will be given for courses taken by these students at another institution only when a student has obtained written approval prior to taking the course and when the earned grade is "C" or better.

Students must have a 2.0 average and sophomore standing before permission will be granted to enroll in another institution for transfer credit. Students with junior or senior standing are limited in the type of courses taken at a junior or community college. They may take only freshman-level or sophomore-level courses. A student may not transfer more than 9 semester hours during any one academic year, that is, during a fall, spring, and summer.

A transfer student must have earned at least 29 hours of credit at Xavier before permission will be granted to take courses elsewhere.

Students are responsible for assuring that an official transcript of any credits earned elsewhere is sent to the Registrar at Xavier. Such transcripts must be received during the semester following that in which the credits were earned.

1. Approval for transfer of credits to Xavier from some other educational institution must be received prior to the student's enrollment at that institution. Otherwise, the credits will not be accepted at Xavier.
2. Approval is required for specific courses. Hence the student must bring to his/her advisor and the chairperson of his/her department, as well as the chairperson of the department of the discipline, suitable documentation -- a college catalog giving a description of the course(s) and college schedule showing that the course(s) will be taught during the summer or semester that the student is attending the other institution. If a student enrolls in courses other than those specifically approved, the credits will not be accepted at Xavier.
3. When approval is granted, credit is transferred from another accredited educational institution to Xavier upon receipt of an official transcript from the other institution indicating grades of " C " or above. Students are encouraged to engage in work at industrial and business institutions as part of their overall education. However, they should realize that, apart from credit received through Xavier's Cooperative Education Program and departmental internships, such work does not result in academic credit.
4. Academic credit for work experience is granted only through approved internships and the Cooperative Education Program. Approval for these types of experiences is to be obtained prior to the experience.

## GRADE REPORTS

Grades are reported to students twice each semester. The mid-semester grade is based either on a mid-semester examination or a previous test or tests, at the discretion of the instructor. This grade is for the information of the student and his/her advisor. The student obtains this grade report online using his/her secure access. At the end of the semester, an official grade report is sent to the student's grade-mailing address.

## CLASSIFICATION OF STUDENTS

Undergraduate students determine their academic progress according to their completion of specific entrance requirements and prescribed courses. To facilitate this determination, students are grouped according to the number of hours earned toward their degree.

| Freshman |  |
| :--- | :--- |
| Sophomore | 29 |
| Junior | 62 |
| Senior | 95 |

NOTE: The 29 hours required for sophomore status must include 6 hours of English composition or ENGL 1023H with a grade of "C" or better. In addition, the student must have passed all required developmental courses before being classified as a sophomore.

## ACADEMIC ADVISING

Xavier requires every student to have an academic advisor, a faculty member from his or her major department assigned by the department chairperson. Deciding majors are advised through the Counseling Center; pre-pharmacy majors are advised by the pre-pharmacy advisor. The academic advisor aids the student in planning his or her schedule and approves this schedule. In addition, the signature of the advisor is required for any change in this approved schedule. However, proper course selections are ultimately the responsibility of the student. Xavier also provides a comprehensive preprofessional supplementary advising program.

## STUDENT COMPETENCY REQUIREMENTS

Under this program, all Xavier University undergraduate students are required to successfully complete competency requirements in reading, mathematics, critical thinking, and oral and written communication. The student competency requirements are administered by the Associate Vice President for Academic Affairs.

## Eligibility

In order to be registered for and complete the competency examinations, students must have completed all mandated developmental courses and all 1000-level mathematics, English, and speech communication requirements of the core curriculum.*

Eligible students will be administratively registered for the competency examinations in the semester following completion of 42 degree credit hours (dch).

Transfer students credited with more than 42 dch will be registered for these examinations in their first semester at Xavier University provided they have completed the appropriate 1000-level courses. Eligible transfer students must be registered for these examinations no later than their second semester at Xavier University.

Students who have previously earned a baccalaureate degree are exempted from the competency examinations.

Students who have not satisfied the general requirements or who have not been registered for and passed the competency examinations will be prohibited from enrolling in courses designated $3000-l e v e l$ or higher. In extreme circumstances, however, the prohibition on registration in upper-level courses may be waived by the department, provided all 1000- and 2000-level work has been completed.

## Registration for Competency Examinations

Students will be administratively registered for the following:

| EXWR | 0021 | Writing Essay Test |
| :--- | :--- | :--- |
| EXEN | 0021 | Writing Objective Test |
| EXRD | 0021 | Reading Competency Examination |
| EXCT | 0021 | Critical Thinking Competency Examination |
| EXMA | 0021 | Mathematics Competency Examination |
| EXSP | 0020 | Speech Competency Examination |

None of these examinations carries academic credit but they must be successfully completed as a requirement for enrollment in upper-level courses.

[^1]
## Grading

Successful completion of these examinations will be designated by a grade of "S"; failure will be designated by a grade of "U"; failure to appear for the exam will be designated by a grade of "FE".

Competency examinations are administered to eligible students during the fall and spring semesters of each academic year. The test dates are available in the academic calendar. It is the student's responsibility to take the examinations on the appropriate day.

In order to pass these examinations and proceed to upper-level coursework, it is imperative that the students develop the foundational skills in each of the areas tested. A statement of the level of skills expected in the competency examinations is available from the Counseling Center or from the office of the Associate Vice President for Academic Affairs. Xavier University provides aid to students in this endeavor via enrichment centers such as the Writing Center, the Mathematics Tutoring Center, the Speech Lab, and the Office of Academic Support Programs. It is the responsibility of the student to make himself or herself aware of the competency test expectations, to make appropriate use of these enrichment opportunities, to make sure he/she has been registered, and to successfully complete the examinations. The key to passing these examinations is development of the basic foundational skills in reading, writing, and oral and written communication.

## Competency Test Fees

The University pays the cost of the first test for each student. If a student is not successful in his/her first attempt or receives an "FE", the student will be required to pay for the cost of all subsequent examinations.

## Computer Competency Examinations

In addition to the above exams, all Xavier students must successfully complete a computer competency examination. This exam is administered to all new Xavier students, both incoming freshmen and transfer students in their first semester at Xavier. It assesses a student's basic computer skills in the use of the world wide web, electronic mail, and a word processor. Xavier University provides aid to students in this endeavor via the Office of Academic Support Programs and campus computer labs.

Students who have not successfully passed the Computer Competency examination ordinarily will not be allowed to take upper division courses identified as courses which require computer competence; passing the computer competency examination is a prerequisite to taking these courses. A complete list of courses requiring computer competence is available in the Office of the Dean of the College of Arts and Sciences.

Successful completion of this examination will be designated by a grade of "S"; failure will be designated by a grade of "U"; failure to appear for the exam will be designated by a grade of "FE". Students will be administratively registered for

## EXCP 0020 Computer Competency Examination

In addition to offering the computer competency examination during new student orientation, exam retakes will be administered during the fall and spring semesters of each academic year. It is the student's responsibility to take the examinations on the appropriate day.

## INTERDEPARTMENTAL TRANSFER

The student who wishes to transfer from one major department to another must observe the following procedures:

1. The student is to report to the registrar's office to obtain a request for change of major form.
2. The student consults the chairperson of the prospective department to ascertain whether the chairperson is in favor of the change.
3. The student then proceeds to the current departmental chairperson for counseling and written approval of the change.
4. If approval is obtained in step 3, he/she reports to the chairperson of the prospective department to obtain written approval.
5. The completed form is returned to the registrar's office.
6. The student must follow the academic program and requirements of the department that are in effect at the time of transfer.

## ACADEMIC PROBATION AND DISMISSAL

Any student whose semester or cumulative grade point average is below 2.0 is liable for academic dismissal. If a student's academic status has changed, he/she will receive written notification. It is the student's responsibility, however, to verify his/her academic standing using Banner Web before returning for the next term.

A student who has been academically dismissed is deregistered from all coursework and forfeits any reserved dormitory accommodations, if applicable.

An academically dismissed student has the right to a written appeal of this decision. This appeal must be received in the Office of the Registrar no later than six weeks after the date on the dismissal letter. The University Academic Standing Committee, chaired by the Vice President for Academic Affairs, will review the appeal and render a decision.

If a student is placed on STRICT PROBATION, he or she is limited to 12 semester hours; the limit is 15 hours for PROBATION. Students on strict or regular probation must achieve a $\mathbf{2 . 0}$ average for the coursework taken during the probationary semester, maintain contact with a counselor in Xavier's Counseling Center, and document participation in academic support activities. If these conditions are not met, the student is liable for dismissal.

In order to be removed from strict or regular probation, a student must achieve a grade point average of 2.0 in 12 or more semester hours and have a cumulative grade point average of at least 2.0 .

## Satisfactory Academic Progress Policy for Financial Aid Eligibility

Federal regulations require all students receiving Federal Title IV financial aid funds to maintain standards of satisfactory academic progress in the pursuit of their degree. Satisfactory Academic Progress (SAP) is defined as a set of standards of academic success, which includes qualitative (g.p.a.) and quantitative (number of hours completed) measures that a student must maintain to retain eligibility for federal financial aid. The maximum time frame for completing an undergraduate degree cannot exceed $150 \%$ of the published length of the student's program of study measured in credit hours attempted (128 hours X $1.5=192$ hours, or higher for programs in excess of 128). SAP is monitored annually - at the conclusion of the spring semester for the preceding summer/fall/spring academic year.

First-year students who fail to meet SAP standards will be placed on financial-aid probation and continue to receive financial aid for two semesters. During the probationary year (the second year in college) the student must pass 24 hours of coursework and earn a semester g.p.a. of 2.0. Probationary students may also attend summer school to meet satisfactory progress requirements. Students who fail to meet the above standards will have their financial aid eligibility suspended.

## NOTE: Federal regulations require that remedial courses be taken in the first two years of matriculation.

## Guidelines

Fulltime (12+ hours per semester) students will be allowed six academic years in which to complete a degree. Part-time students will be considered on a pro rata basis equivalent to requirements of full-time students. The number of hours in which a student is enrolled on the first day following the end of the add/drop period will be the official number of hours used to determine full-time or part-time status. Full-time students who drop below 12 semester hours following this date will still be considered full-time students for financial aid eligibility. Satisfactory Academic Progress for financial aid eligibility requires that the student's ratio of completed (earned) semester credit hours versus the student's enrolled (attempted) semester credit hours at end of drop/add period adhere to the following guidelines:
Attempted Hours
$0-25$ credit hours
$26-50$ credit hours
$51-75$ credit hours
$76-100$ credit hours
$101-125$ credit hours
125 and above credit hours

Hours Passed
$50 \%$ of attempted hours
$50 \%$ of attempted hours
$55 \%$ of attempted hours
$60 \%$ of attempted hours
$65 \%$ of attempted hours
$70 \%$ of attempted hours

Students are expected to achieve a 2.0 or better cumulative GPA and to complete $50 \%$ of the enrolled semester credit hours at the end of the first two years of matriculation. Hours attempted and hours completed in summer school will be included in calculation of eligibility.

Students who fail to make satisfactory progress at the end of the first four semesters will be ineligible for federal financial aid until the deficiency is corrected.

Pharmacy students in P1 and P2 years follow the above guidelines for undergraduate students. P3 \& P4 Pharmacy students are considered graduate students and must complete $75 \%$ of courses attempted and maintain a 2.0 g.p.a.

Transfer students will be evaluated on the enrolled attempted hours, enrollment status and cumulative grade point average at Xavier plus the transfer hours, which will be added to the attempted and completed hours.

## Appeals Process

Students whose financial aid eligibility has been suspended due to failure to meet the above criteria may appeal their ineligibility if there are mitigating circumstances. Mitigating circumstances are defined as a change in grades or major, serious illness or injury, death of a family member or similar traumatic event. The appeal must be filed in writing within six weeks of notification of ineligibility. Students who appeal must use the Satisfactory Academic Progress (SAP) Appeal Form found on the Financial Aid website. All appeals must include supporting documentation (grade or major change form/s, doctor's statement, death certificate, etc.) and an academic plan to regain eligibility. The appeal may not be based on the student's need for the funds nor the lack of knowledge that eligibility for financial aid was in jeopardy. The Financial Aid Appeal Committee will review the appeal within two weeks of the deadline for filing all appeals provided all necessary documentation has been submitted; the students will be notified of the committee's decision by mail. The Committee will not review Appeal Forms that are incomplete and/or lacking the required verification. The completed SAP Appeal Form should be sent to: Director, Academic Support Programs; Xavier University of Louisiana; Box 51; 1 Drexel Drive; New Orleans, LA 70125.

If the appeal is denied, the student may continue at his/her expense in order to regain his/her eligibility. Students will automatically be reinstated once they have completed an academic year with Satisfactory Academic Progress.

For additional information, students should refer to the web or the Financial Aid Publication on Satisfactory Academic Progress.

## READMISSION

A student who desires readmission to the University after an interruption of his/her attendance for any reason must request from the Registrar and complete a readmission application at least one month prior to the beginning of the session he/she plans to enter. The petition is presented to the College Academic Standing Committee for a decision. As part of the readmission procedure, a student who was not in good academic standing (cumulative G.P.A. below 2.0) when he or she left Xavier must arrange for an appointment with the Counseling Center. Students re-admitted after academic dismissal are placed on strict probation. If a student is denied readmission by the College Academic Standing Committee, the student has a right to a written appeal of the decision. This appeal must be received in the Office of the Registrar no later than six weeks after the date of the denial letter.

## REINSTATEMENT OF STUDENTS WITH W\$ GRADES

At the close of each semester, students who have all W\$ grades will have their records processed for inactivity just as any other withdrawal from the University, including CANCELLATION OF EARLY REGISTRATION AND ROOM RESERVATION.

Once a student has cleared his/her fiscal obligations, he/she will receive a form allowing him/her to request reinstatement. This must be completed and returned to the Office of the Registrar two weeks prior to the spring semester if the W\$ grades were in the fall semester and the student wishes to return the following spring. Otherwise, this form must be returned two months prior to any semester for which readmission is sought.

The first time a student receives all W\$ grades and requests reinstatement, readmission will be automatically granted. Any subsequent times, readmission will be contingent upon a favorable review of the student's record by the Academic Standing Committee.


#### Abstract

ABSENCE Class attendance is regarded as an obligation as well as a privilege and all students are expected to attend regularly and punctually all classes in which they are enrolled. Students absent for any reason whatsoever are expected to do the full work of the course, and they are responsible to the instructor for work missed through late registration, illness, or any other cause. It is the responsibility of the student to make arrangements with the instructor in instances where there has been a legitimate and extraordinary reason for the absence which can be documented.


Instructors are expected to keep accurate records of attendance. When a student misses five (5) consecutive classes, it must be reported by the instructor to the Office of the Registrar. Students absent from class for five consecutive days or more due to illness, family tragedy, etc., are to notify the dean of the college and submit appropriate documentation. All absences in a course are counted until the course has been officially dropped. A student who is excessively absent may be dropped from the University upon the recommendation of the college dean.

Attendance at assemblies and departmental meetings is expected and is an important part of Xavier's educational program.

## FINAL EXAMINATIONS

Final examinations are given according to a schedule published at the beginning of each semester. Students and instructors are expected to follow this schedule. Final examinations must be given within the hours set aside in the examination schedule.

Misreading or lack of knowledge of the schedule is not sufficient reason for a student's being absent from, or late for, a final examination. Students are advised to consult the examination schedule before making travel or other arrangements.

A student may be excused for missing a final examination only by his or her college dean and only in the case of an extreme circumstance. Students who must be absent from a final examination must present in writing an explanation and documentation, to his/her college dean, before, or at most 24 hours after, the examination. A student whose absence from a final examination is excused by his or her dean will receive the grade of "I" in the course and will be given a make-up examination; a student whose absence from a final examination is not excused may receive an " F " in the course.

## W\$ POLICY

Students who have not satisfied their financial obligations to the University are prohibited from taking final examinations. Students who receive fiscal clearance after the date/time of his/her final examination(s) will NOT be given a make-up examination. Students will, however, be allowed to take any remaining scheduled examinations once they receive fiscal clearance and will receive letter grades in the course(s).

## WITHDRAWAL FROM COURSES

Withdrawal from any course must be acknowledged in writing by the student's advisor and the instructor of the course being dropped. (A fee is charged for each change except during regular registration periods. For details of the withdrawal procedure, students should consult the Office of the Registrar.)

If the student withdraws before the official withdrawal deadline in the University Calendar, the grade assigned will be "W". After this date no withdrawal from a course (other than withdrawal from the University) can be made except in extreme circumstances, and then only with the written approval of the student's college dean.

No student will be allowed to withdraw from a developmental course without withdrawing from the University. An exception may be made to this policy only in the most extreme circumstances and then only with the written approval of the Dean of the College of Arts and Sciences.

A student who withdraws unofficially at any time is assigned a grade of " F ".

## WITHDRAWAL FROM THE UNIVERSITY

To withdraw officially from the University during the course of a term, a student must:

1. Obtain a withdrawal form from the Office of the Registrar.
2. Obtain signatures of designated officials on the withdrawal form. (This form will be signed only after the student has cleared all obligations to the University.)
3. Return the completed form to the Office of the Registrar no later than one week after the student has stopped attending class.

Withdrawal is not complete or official until all signatures have been obtained and the form is returned to the Office of the Registrar. The student's withdrawal date is the date the student officially notifies the Registrar's Office of the withdrawal. The last day to officially withdraw from Xavier is usually one week prior to the first day of final examinations for that semester.

The student who withdraws without permission will incur a failure in all courses for which he/she is registered and no refund of any kind can be claimed. In the case of serious illness the student or his parents should request official withdrawal through the college dean's office. The dean will then contact the Office of the Registrar for processing of the withdrawal form.

## REQUEST FOR TRANSCRIPTS

Transcripts of a student's academic record will be issued upon written application to the Registrar and payment of the fee at least one week in advance of the date the record is needed, provided that all financial obligations to the University, including Federal Loan repayments, are cleared. No transcripts will be issued during the period of registration or the period of final examinations.


#### Abstract

AUDITING A student wishing to audit a course must obtain permission from his or her advisor. Students are required to pay the same tuition for auditing a course as those who register for credit. A student who audits a course is not obliged to turn in assignments nor take examinations.

A student may not change his status from audit to credit, nor from credit to audit, without the written permission of his or her advisor. Such approval will not be granted after the third class day of the academic term.

\section*{COURSE CREDIT RESTRICTIONS}

Ordinarily, students are not permitted to enroll for more than 18 semester hours (including courses taken at another institution) of course work per semester. Exceptions are made rarely and within the following guidelines: Departmental chairpersons may allow Junior or Senior students to take up to 21 semester hours for specific reasons which are documented in writing in the student's departmental file. In order to receive approval, the student must have a minimum GPA of 3.0. Any exceptions to the preceding require the approval of the dean of the college. Students are required to pay additional tuition for each hour of overload (see Tuition, Fees and Expenses).


Students whose hours are restricted may not exceed the stated limit without permission of the college dean. Failure to comply with this regulation may result in the forfeiture of all excessive semester hours. A student on any type of probation whose schedule exceeds the number of hours to which he/she has been restricted must withdraw from the excessive hours or his/her schedule will be changed by the Office of the Registrar. The student will receive no credit for the hours he/she registered for in excess of the number permitted.

## CATALOG RESTRICTIONS

Students generally follow the academic program current at the time of their admission into the University and may not follow those of earlier catalogs. Exceptions may apply where requirements are imposed by state agencies (e.g., in education) or professional/certification organizations.

A student who changes his or her major department must follow the academic program in effect at the time of this change. Students who withdraw from the University and who do not return within four semesters must follow the academic program current at the time of their re-entry.

## COMPLETION OF DEGREE/GRADUATION POLICIES

A student must complete all requirements before being awarded a degree. This includes passing the senior comprehensive examination, or achieving a designated score on an identified national examination for those departments that allow such tests to be used as a substitute for the senior comprehensive. Scores for national exams must be received prior to the last class day of the semester in which the student graduates. Students are encouraged to take these tests in the semester prior to graduation to allow sufficient time for the Registrar to receive their scores.

For students who finish at times other than the spring commencement:

- Completion at Xavier: The student will receive his or her diploma approximately two months after the end of the session in which the requirements are completed. The graduation/diploma date will be the date this session ends.
- Completion elsewhere: The student who finishes his or her requirements elsewhere must obtain official, written permission to do so. The graduation/diploma date will be the date in which Xavier's corresponding session ends. The student will receive his or her diploma approximately two months after the Registrar at Xavier has received an official transcript of the credits earned. This transcript must be received by Xavier during the semester following the session in which the credits are earned. If the transcript is not received during this semester, the graduation/diploma date will be the semester in which the transcript is received.


## COMMENCEMENT CEREMONY POLICIES

Beginning with the commencement exercises in the year 2005, in order to participate in the spring commencement, a student must be registered in ALL remaining required courses during that semester. A student who fails only ONE required course during that last semester and also has passed his/her senior comprehensives will be allowed to participate in commencement exercises. Withdrawal from any required courses will prevent the student from participating in the commencement exercises.

## REQUIREMENTS FOR THE SECOND BACHELORS DEGREE

A student who has earned a bachelor's degree at Xavier may apply for a second bachelor's degree only if the second degree is different from the first. All requirements of the second degree program which were not covered in the first program must be fulfilled. The combined programs must include at least 158 semester hours of credit.

## ENROLLMENT IN GRADUATE COURSES PRIOR <br> GRADUATION

Undergraduate senior students in their last year of study may be permitted to take a maximum of six credit hours of introductory-level graduate courses. Permission is contingent upon the student's having a minimum GPA of 3.0 and approval of the Dean of the College of Arts and Sciences, the instructor of the graduate course, and the Dean of the Graduate School. The student will receive graduate credit upon successful completion of the course(s). This course work may be applied to a graduate degree program only AFTER the student has completed ALL the admission requirements and received formal acceptance to the Graduate School. Under no circumstances will a graduate course be applied to both undergraduate and graduate credit.

Undergraduates who wish to apply to the Graduate School to take a graduate course must (1) complete the application form, (2) have an official transcript of their undergraduate credits sent directly to the Graduate School, and (3) have a letter of good standing from their academic advisor, as well as a specific recommendation as to which course(s) the student may take.

More information about graduate programs can be obtained from the Graduate School.

## LIBRARY

As the center of intellectual life on campus, the Xavier University Library provides appropriate media for research and instruction, as well as the promotion of knowledge and cultural development of students and faculty.

Xavier University Library houses over 250,000 volume units and subscribes to nearly 1900 periodicals and newspapers. Designated as a Federal Documents Depository in 1991, the Library is home to a growing list of federal publications on a variety of subjects. More than 721,000 microforms provide access to a wide range of periodical backfiles, Educational Resource Information Clearinghouse (ERIC) documents, books not available in hard copy, and manuscript collections whose originals are held by other repositories.

The Public Services Division offers the full range of Reference Desk services at all times the Library is open. Instructional sessions in effective library usage and research strategies are conducted by librarians and are available to classes by appointment. Through the Interlibrary Loan (ILL) Department, Library patrons can borrow books and get photocopies of journal articles held by other libraries.

The Archives and Special Collections Division holds a large collection of rare books, manuscripts, photographs, and ephemera related to African-American history and culture, the history of Louisiana and the Gulf-Caribbean region, U.S. Roman Catholicism, and the creative writing of the modern Deep South.

Instructional Media Services (IMS) features instructional materials in a variety of formats. Classical and jazz recordings are available on LP, audiotape, and compact disc. IMS also holds a growing library of films by Africans and African-Americans, films whose settings are in New Orleans and Louisiana, and filmed adaptations of classic literature. The most modern listening and viewing equipment is available in specially-designed classrooms, as well as individual study carrels.

The Library's collections are all searchable on XAC (the Xavier Automated Catalog) by keyword, author, title, and subject. A number of CD-ROM databases and indexes are also available to provide access to articles in periodicals, newspapers, federal publications, and ERIC documents and resources. Additionally, access to a growing library of full-text articles in major publications in the sciences and humanities is available through the Internet via the Journal Storage (JSTOR) project. Computers provide access to all electronic data sources across all four floors of the Library facility. The Library is continually adding access to new databases available on the Internet. Many of these databases offer access to the full text of publications. Resources such as Lexis/Nexis, MEDLINE, ProQuest Direct, and NetLibrary are but a few of the Internetbased electronic services that the Library offers.

The Library is open until midnight five nights a week, with hours for most public services available on nights and weekends when school is in session. Special hours are observed during holidays and during the summer months. The gallery area in the front of the Library is the frequent host to art exhibits by students and local artists and is the site of "Literary Evenings in the Library," where noted writers and poets offer readings from their works.

## Special Programs

## THE NEW ORLEANS CONSORTIUM

The New Orleans Consortium is a cooperative effort among Xavier, Loyola University and Notre Dame Seminary to strengthen educational opportunities on their campuses. Cooperative projects include the sharing of library facilities, joint cultural events, and the interchange of students.

Under the cross-registration agreement, a full-time, upper-class Xavier student may, with the permission of his/her chair, register for a maximum of six hours at member institutions of the consortium. This agreement does not apply to evening divisions and summer sessions. An exception to the six-hour limit on cross-registration is made for students under contract in a Unique Major Sequence; in either case, these students must enroll for at least three semester hours at Xavier.

## XAVIER McNAIR/ CANDAX-ME PROGRAMS

These two programs are designed to assist and support undergraduate students interested in pursuing graduate study at the doctoral level. Supported by the U.S. Department of Education, the McNair programs provide informative seminars; travel to graduate schools and research conferences; faculty mentors; and summer research programs. The CANDAX-ME program is concurrently sponsored at Clark Atlanta, Notre Dame, and Xavier Universities, as well as at St. Mary's and St. Edward's Universities in Texas. As a result, interaction with students and faculty from these institutions has been built into the program. The McNair programs are open to students from underrepresented ethnic groups and/or first generation/low income college students who have completed their sophomore year. McNair is an ideal complement to the GradStar Program. For more information on these programs, contact the Office of Graduate Placement.

## CENTER FOR INTERCULTURAL AND INTERNATIONAL PROGRAMS

The Xavier Center for Intercultural and International Programs has been established to:
(1) promote global awareness on the Xavier campus;
(2) expand study abroad opportunities for students across the curriculum;
(3) provide leadership in globalizing the curriculum;
(4) support faculty development in the intercultural and international arena; and provide assistance to international students.

Students interested in incorporating a study abroad experience into their academic career at Xavier are encouraged to visit the Center for Intercultural and International Programs.

## CENTER FOR UNDERGRADUATE RESEARCH

The primary goal of Xavier University's Center for Undergraduate Research (XUCUR) is to facilitate the ongoing process of institutionalizing undergraduate research on Xavier's campus. In order to achieve this goal, XUCUR coordinates and oversees a multitude of research opportunities for undergraduates at Xavier. Information pertaining to on-campus and off-campus research experiences is available through XUCUR, for students majoring in all disciplines. Applications for a diverse array of summer research experiences and for selected programs running through the academic year can be acquired from the XUCUR Office. A limited amount of research start-up funding for faculty and travel expenses for faculty and students to attend research conferences is also available.

## OFFICE OF ENVIRONMENTAL EDUCATION

The Office of Environmental Education is an academic division that offers curricula in Environmental Studies and Environmental Science to science and non-science majors. Its mission is to offer an environmental minors program that will prepare and enable more minority students to pursue environmental careers. The Office of Environmental Education is dedicated to increasing the awareness and knowledge of environmental issues, as well as increasing the number of minority students who pursue environmental careers.

## CENTER FOR ENVIRONMENTAL PROGRAMS

The Xavier University Center for Environmental Programs has been established to: 1) promote environmental literacy among University students through curriculum advisement; 2) establish pre-professional programs that help train environmental experts; 3) promote environmental careers and graduate education among African Americans; and 4) facilitate faculty/student research efforts in environmental technology and management. The Center will work to empower students to think both critically and creatively, to develop a system of personal values, and to understand the psychological, social, economic and political forces which move and shape the environment. The Center provides guidance for students on the identity of courses with environmental content, the availability of environmental scholarships and summer research experiences, and provides an infrastructure for campus groups to address environmental issues in today's world.

## FAITH AND LEARNING PROGRAMS

Xavier's Faith and Learning Programs was established in January 2001 with a grant from the Lilly Endowment, Inc. The goals of the Faith and Learning Programs are: (1) to assist students in understanding their future work in light of their faith and in terms of vocation; (2) to identify talented young people and provide them with opportunities to explore ministry, either lay or ordained, as their life's work; and (3) to raise the consciousness of the entire University community to realize that her or his career choice is a vocation - a calling - based on one's faith beliefs. The Faith and Learning Programs have three components: (1) InFLIGHT, a free five-week summer program for incoming freshmen who take a 3 credit hours Theology course, along with discussion periods, guided theological reflections, analytical reading and writing, community service projects and social outings; (2) an undergraduate program which offers student forums, retreats, student created service projects, a Vocation Awareness weekend and vocation expressed through music and drama; and (3) a faculty/staff program which offers lecture series, research communities, seminars, retreats and community projects.

## EXCHANGE PROGRAMS (HOWARD UNIVERSITY, NEW YORK UNIVERSITY, AND THE UNIVERSITY OF SAN FRANCISCO)

Xavier University has a student exchange arrangement with Howard University in Washington, D.C., New York University (NYU) in New York City, and the University of San Francisco (USF). According to the terms for these agreements, students from Xavier may enroll at either New York University or the University of San Francisco, and NYU and USF students may enroll at Xavier in the spring semester. Students from Xavier and Howard may enroll at the other institution in either the fall or spring semesters. Prior approval of the student's academic advisor and the academic deans at both institutions is required. Additional information is available in the Office of the Dean of the College of Arts and Sciences.

## CROSSING BORDERS

Crossing Borders is a program of study abroad and student exchange involving Dickinson College in Carlisle, Pennsylvania, Spelman College in Atlanta, Georgia, Dillard University in New Orleans, and Xavier. Students have the opportunity to study in three locations over the span of an academic year: (1) a summer program in Cameroon, West Africa, (2) a fall semester at Dickinson, and (3) a spring semester at Xavier and Dillard (some Dickinson students will attend Spelman at this time). This program is designed to engage students in living and learning in a diverse American society through an examination of their own experiences, interactions with other students, and a series of structural "community immersions". Additional information is available in the Office of the Dean of the College of Arts and Sciences.

## CONTINUING EDUCATION

Over the years Xavier has engaged in various activities related to continuing education, principally in the field of education and in pharmacy. The University has initiated the practice of awarding Continuing Education Units (CEU's) to those who participate in these activities according to the guidelines prepared by the National University Extension Association and the Southern Association of Colleges and Schools.

## THE DREXEL CENTER FOR EXTENDED LEARNING

Xavier's commitment to educational leadership in higher education led to the creation of the Drexel Center for Extended Learning. The Drexel Center initiates, coordinates and/or promotes:
-Evening and weekend courses for college credit
-Certificate programs in business and computer science
-Telecourses
-Non-degree courses
-Community/business oriented workshops, conferences, and seminars
-High quality skills development activities for learners of all ages

## THE XAVIER SPEECH AND HEARING CENTER

The Xavier Speech and Hearing Center, which is operated in conjunction with the speech pathology/audiology academic program, offers evaluations and/or treatment for a variety of speech-language-hearing disorders. Any individual from the community, including infants and seniors, may be evaluated and treated. Instructors may also refer any student who appears to have a speech-language-hearing problem to the Center for evaluation. Xavier students, faculty, and staff members may seek services at the Center free of charge. The fees charged to others are based on the client's ability to pay.

## COOPERATIVE EDUCATION AND INTERNSHIPS

For a number of years Xavier has offered an experiential learning program (Cooperative Education) as a means of providing students with exposure to the business and professional world as part of their academic preparation.

## Co-ops

Two forms of Cooperative Education (Co-op) are offered. The first, called Alternating Co-op, involves alternating semesters of full-time on-campus study with semesters of full-time employment. Students completing one semester of Alternating Co-op receive three semester hours of academic credit. Under the other plan, called Parallel Co-op, students may work part time while attending formal classes. Students must complete two semesters of Parallel Co-op to receive three semester hours of academic credit. Under both plans, the student's work is monitored by the Xavier Career Services Office. Students who wish to participate must obtain approval from their departmental faculty advisor and the Career Services Office.

To be accepted into the program the student must
a) have attained sophomore standing,
b) have a cumulative grade point average of 2.0 or better, and
c) be able to demonstrate that he or she will profit from participating in cooperative assignments.

In most cases, participation in a Co-op assignment will lengthen the student's stay in school and students should anticipate this extension of the usual time for completion of degree requirements.

## Internships

In addition to Cooperative Education, the Career Services Office also coordinates formalized summer internships in conjunction with the Business and Computer Sciences and Computer Engineering Departments. If students desire, academic credit may be earned for a paid summer work assignment. Students who wish to participate must obtain approval from their departmental chairpersons and the Career Services Office prior to the experience. Internships are also available through the GradStar Office and the other academic departments.

## INTERDISCIPLINARY MINORS

## Minor in African American Studies

The Minor in African American Studies is a focused interdisciplinary program that explores the experiences and traditions of African Americans. The AFAM minor complements programs in the College of Arts and Sciences and other pre-professional and professional programs in the University. Students are introduced to historical origins and cultural foundations of African American society. Emphasis is centered on human organization, institutions, and socioeconomic development. The goal of the minor is to charter new and different directions of critical inquiry about African American contributions in the ongoing process of human development.

Students declaring the AFAM minor are required to meet with the Coordinator of the African American Studies Program to formulate a suitable plan of study.

The Minor in African American Studies consists of eighteen (18) hours. For the minor, students are required to complete twelve (12) hours of core courses and six (6) hours of courses in a specified concentration. The concentration may be taken from English, history, philosophy, psychology, music or other disciplinary course offerings centered on African American Studies.

AFAM 2000
AFAM 2010
AFAM 2020
AFAM 3370
Introduction to African American History and Culture
Introduction to African American Social Sciences
Special Topics in African American Studies
African Americans, Africa, and Pan-Africanism
Any student may select one of the courses to satisfy the University requirement in African American Studies. For the student who minors in AFAM, the remainder of the courses are required to fulfill the Minor.

A grade of "C" or better must be earned in all courses taken in the minor. It is strongly suggested that each student with a minor in AFAM have knowledge of a language other than English.

## Minor in Environmental Science/Environmental Studies

There are three interdisciplinary environmental minors: Environmental Science for Non-Science Majors, Environmental Studies for Non-Science Majors, and Environmental Studies for Science Majors. These minors provide students with an opportunity to prepare for positions of leadership in professional fields that (1) foster humane interaction with the natural environment, (2) promote restoration of an environment fit to sustain human life, and (3) seek environmental justice. Specifically, these programs will enable students to pursue the following:

- graduate study in environmental science or environmental studies,
- scientific and technical careers in laboratories studying environmental issues,
- careers in environmental policy in the public or private sector, and
- social action organizations addressing issues of environmental justice and fairness.

Students declaring an Environmental minor are required to consult with the Office of Environmental Education at the initiation of its pursuit.

1. Minor in Environmental Science for Non-Science Majors. This minor introduces the non-science major to the environmental sciences. Students must earn eighteen (18) hours, including two required courses and six (6) hours from the courses under Group A and six (6) hours from the courses under Group B.

## Required courses:

BIOL 1050 Environmental Biology 3 hrs.
CHEM 1500 Survey of Environmental Chemistry 3 hrs.

2. Minor in Environmental Studies for Non-Science Majors. This minor introduces non-science majors to environmental issues from the perspective of the humanities and social sciences. Students must earn eighteen (18) hours, including six (6) hours from the list of courses under Group A and twelve (12) hours from the list of courses under Group B.

| Group A: | Choose Two | Group B: | Choose Four |
| :--- | :--- | :--- | :--- |
| BIOL 1050 | Environmental Biology | PHIL 2045 | Ethics |
| CHEM 1500 | Survey of Envir. <br> Chemistry | PHIL 2060 | Environmental <br> Philosophy |
| IPSC 3020 | Earth Science | ENGL 3003 | Nature and <br> Language |
| IPSC 4010* | Advanced Earth | PSCI 3363 | Environmental <br> Policy |
| STAT 2010 or <br> Science <br> MATH 1020 | Statistics | THEO 3800 | Environmental <br> Theology |
| BIOL 4350** | Epidemiology | PSYC 4000 | Environmental <br> Psychology <br> Environmental <br> Communications |

3. Minor in Environmental Studies for Science Majors. This minor is for science majors who already must complete a mandated minor. Students must earn eighteen (18) hours in this minor. The science major will achieve a double minor by selecting the three required courses, nine (9) hours, to satisfy the philosophy core requirement and the upper-level theology requirement. The student will complete the minor by using free electives in order to select the remaining nine (9) hours from the options listed below.

Required courses: (in combination with core curriculum requirements)
PHIL 2045 Ethics 3 hrs.
PHIL 2060 Environmental Philosophy 3 hrs .
THEO $3800^{+}$Environmental Theology 3 hrs.
Choose Three
BIOL 2141** General Zoology IPSC 4010* Advanced Earth Science
BIOL 2151** General Botany
BIOL 4220^ Applied and Env. Microbiology
IPSC 3020 Earth Science
BIOL 4240^^ Microbial
Physiology
BIOL 3070^ Immunology
BIOL 3210 Ecology
BIOL 4350** Epidemiology
CHEM 4093 ${ }^{\#}$ Undergraduate
Env. Research
CHEM 3450*** Toxicology
BIOL 4520\#\#\# Undergraduate Research
BIOL 4300-03 ${ }^{\text {\#\# }}$ Adv. Topics in Biology
9 hrs.
18 hrs .

[^2]
## Minor in International Studies

The Minor in International Studies prepares students for careers in the international arena. The program of study provides a blend of traditional courses from the humanities, languages, and social sciences. Specifically, this program prepares students for:

1. Careers in government service, particularly the Foreign Service of the U.S. Department of State or any of the various other Federal agencies which function in the international milieu;
2. Careers in international business in the private sector;
3. Career as international civil servants with intergovernmental organizations such as the United Nations or careers with private international non-governmental organizations.

The Minor consists of twenty-one hours. Students choosing this minor are required to complete three (3) hours of foreign language over and above the six (6) hours which are required by the Core Curriculum. As a demonstration of language proficiency, students are required to have an overall average of 3.0 or higher in this foreign language sequence. Students are also required to complete six hours each in Economics, Political Science, and Sociology from the following list of courses:

$$
\begin{array}{ll}
\text { Economics (6 hrs): } & \text { ECON 2020, 4050, 4070 } \\
\text { Political Science (6 hrs): } & \text { PSCI 2040, 3400, 4640, 4680 } \\
\text { Sociology (6 hrs): } & \text { SOCI 2060, 4050, or BHSC } 4800
\end{array}
$$

## Law and Humanities Minor

The Law and Humanities Minor is offered under the direction of the Pre-law advisor. The interdisciplinary approach of the Law and Humanities Minor is designed to provide the student with a more comprehensive understanding of the traditions and values of the law than is possible within a single department's offerings. In addition, by providing the student with a variety of humanistic perspectives on one theme, the program gives majors in all disciplines an integrated view of the humanities. The minor consists of five required courses and one elective.

The required courses are the following:

English 3000
History 3001
Philosophy 3260
Political Science 2100
Seminar in Law and Humanities

Special Topics (Law and Literature)
History of American Law
Philosophy of Law
Law, Politics, and Society
(cross-listed in appropriate departments)

The one elective course is to be chosen from an area outside the student's major and is to be selected from the following:

| English 3190 | Legal Reasoning and Writing |
| :--- | :--- |
| History 3360 | African American History II |
| Philosophy 3190 | Legal Reasoning and Writing |
| Political Science 2120 | Judicial Process |
| Political Science 4100 | Constitutional Law |
| Political Science 4110 | Civil Rights |

## PRE-LAW PROGRAMS

In its Pre-Law Handbook, the Law School Admissions Council recommends no particular program as the ideal preparation for law school. Any undergraduate program which encourages the development of skills in reasoning, critical reading, writing, and oral communication provides an excellent background for law school.

The Pre-Law advisor does, however, suggest specific courses which pre-law students may find helpful. Thus, it is recommended that a student use his/her Core Curriculum requirements, minor, and free electives to take courses from the following list: 1) English 2020, 3275, or 3400, 2) History 3001, and 3) Philosophy 2040, 3190, or 3260, and 4) Political Science 2100, 3250, 3270 or 4100.

## Accelerated Pre-Law Curricula

Xavier students who are interested in attending a law school may shorten by one year the total time required to complete both the bachelor's degree and the law degree by participating in approved $3+1$ programs. These programs are currently offered by the Departments of Philosophy and Political Science. In a $3+1$ plan, the student completes three years at Xavier and spends his or her senior year at an accredited law school. After successfully completing 27-30 semester hours at the law school, the student transfers the law school credit to Xavier and receives the bachelor's degree. Thus, after four years, the student will have completed all the requirements for graduation from Xavier and have successfully finished the first year of law school.

The accelerated programs do not assure a student's acceptance into law school. Admission to law school is the responsibility of the student. There are several law schools in the United States which allow admission of the exceptional student who has not completed an undergraduate degree. The student who is interested in a career in law should express this intention to and arrange for an on-going consultation with the Pre-Law Advisor at his or her first registration at Xavier.

## PRE-HEALTH PROFESSIONS PROGRAMS

Students interested in preparing to enter a health professions school including dentistry, medicine, optometry, osteopathy, podiatry, and veterinary medicine are not required to major in biology or chemistry or in a science. Most health professions schools do not require that applicants complete an undergraduate degree but many prefer that they do so.

The information below is only an overview of pre-health professions requirements. Students interested in enrolling in a health professions school, except Pharmacy, should express this intention to and consult with the University Premedical Advisor at the student's first Xavier registration. Those interested in Pharmacy should contact Xavier University's College of Pharmacy.

Basic Requirements: All health professions schools require one year of:

- general biology
- general chemistry
- organic chemistry
- general physics
- college mathematics
- English composition at the college level.

Students should be aware that these laboratory science requirements may not be satisfied by Advanced Placement from high school; they must be completed at a college. In addition, they must be completed at least twelve months before the anticipated date of entry into a health professions school so that the student can take the MCAT, DAT, or other required standardized admission exam.

Although calculus may be required for some degrees at Xavier, it is generally not required for admission into health professions school.

Some health professions schools also require one or more advanced courses in science, one or more courses in the social sciences, or specialized courses such as zoology (for veterinary school) or optics (for optometry). Consult specific catalogs

Additional Courses Recommended: It is strongly recommended that students interested in medicine or dentistry take at least three of the following advanced courses while at XU:

- Biochemistry
- Comparative Anatomy with laboratory
- Embryology with laboratory
- Histology with laboratory
- Physiology

Recommended Scheduling of Science Courses: The departments of Biology, Chemistry, and Psychology have special degree programs for students interested in the health professions. Students in those departments should follow their department's program of study designated as "Premedical" or "Preprofessional." Please note that students in the program get a degree in the subject area, i.e., in Biology, Chemistry, or Psychology, not in "PreMed."

Students interested in medicine or dentistry in departments other than Biology, Chemistry, or Psychology should follow the schedule of courses below. Students in most majors at Xavier can follow the schedule by choosing a chemistry minor (general, organic, and biochemistry), using free electives and natural science Core Curriculum requirements for the other science courses, and making slight adjustments in the scheduling of courses in existing degree programs.

# Pre-Medicine/Pre-Dentistry Schedule 

| Freshman Year <br> Semester Hours <br> 1st <br> Semester | 2nd <br> Semester |  |
| :---: | :---: | :--- |
| 4 | 4 | General Chemistry I - II |
| $3(4)$ | 4 | Precalculus or Statistics <br> and Calculus I |
| Sophomore Year |  |  |
| 4 | 4 | Organic Chemistry I - II |
| 4 | 4 | General Biology I-II |
| Junior Year |  |  |
| 4 | 4 | General Physics I-II <br> 3 |
| Physiology <br> Biochemistry |  |  |
| Senior Year <br> 4 | Histology <br> Comparative Anatomy |  |

## Accelerated Pre-Health Professions Curricula

Superior students interested in a health professions career may shorten by one year the total time required to complete both the bachelor's degree and the professional degree by participating in approved $3+1$ programs. These programs are currently offered by the departments of Biology and Chemistry. In a $3+1$ plan, the student completes three years at Xavier and spends his or her senior year at a professional school. After successfully completing 28-31 semester hours at the professional school, the student transfers these credits to Xavier and receives the bachelor's degree. Thus, after four years, the student will have completed all the requirements for graduation from Xavier and have successfully finished the first year of medical, dental, etc. school.

The accelerated programs do not assure a student's acceptance into the professional school. Admission to the professional school is the responsibility of the student. The student who is interested in an accelerated pre-health program should express this intention to his/her academic advisor at his or her first registration at Xavier.

## Xavier-Tulane Premedical Early Acceptance Program

This program offers the opportunity for Xavier students to gain acceptance into the Tulane University School of Medicine during their junior year of undergraduate work. Students apply for the program during the second semester of their sophomore year. Applications are reviewed by a committee of Xavier faculty who choose a maximum of five nominees to be forwarded to Tulane. Selection will be based on grade point averages after the completion of prerequisite courses as described in the Tulane catalog and on personal characteristics. Nominees will be invited to Tulane's School of Medicine for interviews during the fall of their junior year. Those who are successful will be notified of their admission into the Early Acceptance Program by November 15 of the nomination year.

Those students admitted in the Early Acceptance Program will be expected to complete their undergraduate education at Xavier University prior to matriculation into Tulane and to maintain satisfactory academic and behavioral progress. Accepted nominees will still be required to submit, by December 15 of their senior year of undergraduate study, an AMCAS application, a Tulane Addendum, and an updated letter of evaluation from Xavier. However, Tulane University will waive the fee normally required with submission of the Tulane Addendum. Students accepted into the Early Acceptance Program may still apply to other schools of choice; they are not obligated to attend Tulane University School of Medicine.

## R.O.T.C. PROGRAMS

Xavier students may participate in ROTC at Xavier through a joint agreement with Tulane University. Students register for ROTC courses at Xavier and usually pursue these courses at Tulane or other local campuses. Students may enroll in the Air Force, Army, or Navy ROTC programs at Tulane. Through these programs, it is possible for the student to earn an appointment as a commissioned officer while working for a degree at Xavier.

## Air Force R.O.T.C.

The Air Force Reserve Officers Training Corps (AFROTC) offers one, two, three, and four-year programs leading to a commission as a second lieutenant in the United States Air Force. The four-year program is divided into two parts: the General Military Course for freshmen and sophomores and the Professional Officer Course for juniors, seniors, and graduate students.

General Military Course (GMC) students attend a one-hour academic class and a two-hour laboratory each week, while the Professional Officer Course (POC) students attend a three-hour academic class and a two-hour laboratory each week. In addition, all cadets are encouraged to maintain a physical fitness regimen and are required to participate in a monthly physical fitness test.

The two-year program begins with a five-week summer training program at an Air Force base. Upon its successful completion, students enter the Professional Officer Course. Students interested in the two-year program should apply no later than February in the spring semester of their sophomore year. Applicants normally have four semesters of either undergraduate or graduate work remaining prior to entry into the two year Professional Officer Course. However, the one year college program allows select seniors or graduate students to complete in only two terms plus a summer program.

For General Military Course students, entry into the Professional Officer Course is competitive and is determined in late spring of their sophomore year. Prior to entry into the Professional Officer Course, all students in the four-year program must attend a four-week field training session, typically held in the summer between the sophomore and junior year.

AFROTC cadets may compete for one, two, and three-year scholarships that pay tuition, fees, textbook allowance, and a monthly subsistence of up to $\$ 400$ per month. Orientation flights in military aircraft and visits to Air Force bases are optional parts of AFROTC training. Many summer opportunities are available on a volunteer basis. Cadets may attend the free fall parachute course or powered glider training at the Air Force Academy. Cadets may participate in Army Airborne Training or a language immersion program. (The language program selects students with three years of college level language to attend a foreign university for 30 days.) The Operation Air Force program gives cadets an opportunity to better understand Air Force life and careers, while spending three weeks at a base. Finally, cadets selected for pilot training complete 50 hours of civilian flight time and receive a FAA private pilot certificate.

## Army R.O.T.C.

The Army Reserve Officers Training Corps (ROTC) is a comprehensive program of studies through which a student can qualify to be commissioned as an officer in the United States Army, the National Guard or the United States Army Reserve. Students learn leadership and management skills that will help in any profession.

The Army ROTC program consists of a two-year Basic Course, which is open to freshmen and sophomores only, and a two-year Advanced Course. Non-scholarship students participating in the first two years of ROTC do not incur any obligation to the U.S. Army. A variety of Army ROTC scholarships are offered. These provide tuition assistance, a flat rate for textbooks, and a monthly subsistence allowance.

Admission to ROTC is conditional upon meeting academic, physical, and age requirements as well as approval of the Professor of Military Science. Physical training is an integral part of the ROTC program.

To be commissioned as an officer, a student must complete either the regular fouryear program, a three-year program (whereby the Basic Course is compressed into one year), or a two-year program (requiring completion of the summer ROTC basic camp giving the student credit for the Basic Course). Advanced placement for ROTC training may be given to veterans and to students with previous ROTC experience. In addition to these requirements, a student must complete at least one course in the areas of written communications, human behavior, military history, computer literacy, and math logic reasoning. A student with an Army ROTC scholarship must also complete at least one semester of either an Indo-European or Asian language.

Uniforms and Military Science textbooks are issued without cost to all students. Advanced Course and scholarship students receive a monthly subsistence allowance. They are paid for the summer advanced leadership camp they must attend prior to completing the Advanced Course. Military Science (Army ROTC) is located on the Tulane campus, and classes are taught on both Tulane and Dillard University campuses.

## Naval R.O.T.C.

The Naval Reserve Officers Training Corps (NROTC) curriculum is a two-year, three-year, or four-year program that leads to a commission as an Ensign or Second Lieutenant, and an active duty obligation in the Navy or Marine Corps Reserve upon graduation.

Candidates for a commission in the Naval Reserve are required to complete Naval Science $101,102,200,202,301,302,401$, and 402. Candidates for a commission in the Marine Corps Reserve take Naval Science 101, 102, 200, 202, 303, 304, 403, and 404. All classes and laboratories are held on Tulane's campus. All NROTC students must attend laboratories at $8 \mathrm{a} . \mathrm{m}$. on Tuesday and Thursday.

In addition to required naval science courses, all Navy-option scholarship students must complete two semesters each in calculus prior to completion of their sophomore year and calculus-based physics prior to completion of their junior year. Non-NROTC students may be admitted to any of the naval science courses with departmental approval.

# Honors Programs and Awards for Students 

## ACADEMIC HONORS

## The Dean's Honor Roll

A student who earns at least 12 hours of degree credit in a semester with a gradepoint average of at least 3.3 with no grades of $\mathbf{F}, \mathbf{U}$ or $\mathbf{I}$ is entitled to placement on the dean's honor roll for that semester. Members of the honor roll will be published in University publications and released to the news media unless a student has a written request on file in the Office of the Registrar not to have his or her name used.

## Graduation Honors

A candidate with a cumulative average of at least 3.3 graduates cum laude; one whose average is at least 3.6 graduates magna cum laude; one whose average is 3.8 or higher graduates summa cum laude.

Students may also receive honors recognition at graduation in biology, chemistry, English and history by satisfying certain departmental requirements.

Honors in Biology -- Students who have maintained the minimum requirements listed in the Biology Department description of this catalog and who have successfully completed BIOL 4011S and BIOL 4021S, will graduate with the distinction "Honors in Biology."

Honors in Chemistry -- Students majoring in Chemistry may apply for the distinction "Honors in Chemistry" by completing their course of study with a 3.5 overall cumulative average and a 3.5 cumulative average in Chemistry. Students who minor in chemistry must have a 3.5 overall average and a 3.7 average in their chemistry courses to earn this distinction. At least 18 hours of chemistry credits must be earned at Xavier.

Honors in Computer Engineering -- Students majoring in Computer Engineering will receive the distinction "Honors in Computer Engineering" if they have (1) maintained at least a 3.50 grade point average in all Computer Engineering, Computer Science, Computer Information Systems, and Mathematics courses, (2) maintained at least a 3.30 grade point average overall, with no grade of "C" or lower in any computer engineering, computer science, computer information systems, or mathematics course, and (3) published or presented a research paper at a refereed, professional conference.

Honors in Computer Information Systems -- Students majoring in Computer Information Systems will receive the distinction "Honors in Computer Information Systems" if they have (1) maintained at least a 3.50 grade point average in all Computer Information Systems, Computer Science, Computer Engineering, and courses offered by the Business Department, (2) maintained at least a 3.30 grade point average overall, with no grade of "C" or lower in any computer information systems, computer science, computer engineering, or course offered by the Business Department, and (3) published or presented a research paper at a refereed, professional conference.

Honors in Computer Science -- Students majoring in Computer Science will receive the distinction "Honors in Computer Science" if they have (1) maintained at least a 3.50 grade point average in all Computer Science, Computer Engineering, Computer Information Systems, and Mathematics courses, (2) maintained at least a 3.30 grade point average overall, with no grade of "C" or lower in any computer science, computer engineering, computer information systems, or mathematics course, and (3) published or presented a research paper at a refereed, professional conference.

Honors in English -- For initial placement in the Honors in English program, students must meet criteria that include ACT or SAT scores and a high school transcript. The English department determines final placement. To receive an honors distinction in English, students so chosen must take ENGL 1023H, 2011 H , and a 3000 - or 4000 -level English course of their choice and receive a cumulative average of 3.0 or higher for the three courses.

Students with Advanced Placement credit may take the sequence with ENGL 2011H and one more English course at the 3000 or 4000 level. A cumulative average of 3.0 or higher in these two courses will earn them Honors in English.

Students need not be placed in the Freshman English Honors Sequence outlined above to qualify for "Honors in English." Students majoring or minoring in English may also earn the honors distinction by completing their courses of study with a 3.5 cumulative average in English. At least eighteen semester hours of English must be earned at Xavier.

Honors in History -- Students selected by the placement process of the Admissions Office to take HIST 1030 H - HIST 1040 H may graduate with an honors in history designation on their transcripts if they take these courses and one more history course at the $3000-$ or 4000 -level. Students must earn a grade of at least a "B" in each of the three courses.

Honors in Mathematics -- For placement in the Honors in Mathematics Program, students should apply to the Mathematics Department. To receive the distinction "Honors in Mathematics," students must satisfy one of the following two criteria:

1. Students must take MATH 1070 H and MATH 2070 H and at least four (4) additional hours of mathematics or statistics at the 2000 level or above. Examples of additional course work that satisfy these requirements are third semester calculus (MATH 2080); basic statistics with a technology lab (STAT 2010 and STAT 2150L); MATH 2030 or MATH 2530 or MATH 2050 together with a technology lab (MATH 2160L), or the two semesters of seminar (MATH 2511S and MATH 2521S). Students must receive a cumulative grade point average of 3.3 or higher in all mathematics and statistics courses taken with no grade of "C" or below.
2. Students must take MATH 1070 (or MATH 1070H) and MATH 2070, and at least six (6) additional hours of mathematics or statistics at the 2000 level or above. Students must receive a cumulative grade point average of 3.3 or higher in all mathematics and statistics courses taken with no grade of "C" or below.

Honors in Music Theory -- Students who are eligible for this honor are music majors who have completed 20 hours in music theory with a minimum GPA in theory of 3.5 by the first half of the senior year. The student who elects to complete this program must apply to the departmental chair who will review that student's record; give final approval for admission into the program, and assist the student in obtaining a faculty person to supervise the final project. In the final semester of the senior year, the student must register for MUST 4500 H ; complete one of the three honors theory projects prescribed for this course; and receive a pass endorsement from the theory faculty who will give the final evaluation of the student's project.

## HONORS PROGRAMS

The MIE MaSTER Scholars Program. This program is supported by a multi-year agreement between Xavier University and the National Science Foundation. Modeled after the Future Scientists and E. E. Just Programs, the MaSTER Scholars Program supports students in the fields of Mathematics, Science, Technology, and Engineering. This model Scholars program is designed to increase the number of Xavier graduates who are prepared and committed to the pursuit of graduate degrees in science, engineering and mathematics and/or careers in the associated areas. The undergraduate MaSTER Scholars Program includes a program of research, assistantships and scholarships. MaSTER Scholars will be involved in undergraduate research under the mentorship of a faculty member from one of the participating academic departments. Peer Mentoring will also be encouraged and developed when appropriate. Peer Mentors will be selected from among those advanced participants in this or similar programs. Selected Scholars (students with a minimum cumulative GPA of 3.00/4.00) are also expected to participate in off-campus summer research internships. Other activities in which MaSTER Scholars participate may include serving as on-campus teaching and laboratory assistants, and assisting in the operation of the University Resource and Mentoring Centers. MaSTER Scholars will be eligible for up to full tuition scholarships per year.

The MARC Biomedical Fellows. The Minority Access to Research Careers (MARC) Program provides financial and programmatic support for undergraduate juniors and seniors interested in biomedical research and/or advanced study leading to a $\mathrm{Ph} . \mathrm{D}$. This two-year program, funded by NIH, includes summer and academic year research opportunities, travel to scientific meetings, and a variety of activities designed to prepare students for success in graduate school. Financial aid is in the form of scholarship funds and a monthly stipend. Biology, chemistry, physics, engineering, math, computer science, and psychology majors are eligible to participate. Applicants must have sophomore status and a minimum 3.0 GPA. Applications are available in the MARC Office, NCF 101.

The MBRS RISE Program. The Minority Biomedical Research Support (MBRS) Research Initiative for Scientific Enhancement (RISE) program provides research opportunities for undergraduate minority students in biology, chemistry, computer science, mathematics, physics, and psychology. This program is designed to promote interest of African American students in biomedical research careers, strengthen student research competence, better prepare the participating students for graduate school, and enhance the capability of Xavier University faculty for participation in biomedical research. Students selected are offered certain financial initiatives during their program participation. Funding for the RISE program comes from the National Institutes of Health. Applications are available in the MORE office as well as on the MORE programs website.

The Rousseve Scholarships. The Rousseve Scholars Program provides a full tuition scholarship and book stipend for one academic year to each of the top ten students in the sophomore, junior, and senior classes. The recipients are selected annually. For additional information regarding selection criteria and eligibility requirements, see Rousseve Scholarships in the section entitled Tuition, Fees and Expenses.

## XAVIER UNIVERSITY AWARDS

## Leadership Awards

THE SAINT KATHARINE DREXEL AWARD. The sum of $\$ 2,000$ is awarded to the senior who, throughout his/her years at Xavier University, has shown the most outstanding spirit of cooperation in the varied interests of the University. Enrollment for at least three years at Xavier is a prerequisite. This award, in memory of Saint Katharine Drexel, is in honor of the life of service and self-dedication of Xavier's foundress. This is the highest award given to a student by the University.

THE MOTHER M. AGATHA RYAN AWARD. The sum of $\$ 1,500$ is awarded to a senior who during his/her years at Xavier university has shown a high appreciation for the spirit and standards of his/her Alma Mater through reverence, personal integrity, loyalty, service, and scholarship. Enrollment for at least three years at Xavier is a prerequisite. This award is in memory of Mother M. Agatha Ryan, former president of Xavier University.

THE XAVIER UNIVERSITY SERVICE AWARDS. The X. U. Service Key is awarded to those seniors who deserve recognition and commendation for generous and loyal service in their cooperation with the University in its varied activities.

THE WILLIAM H. MITCHELL CHRISTIAN LEADERSHIP AWARD. A plaque is awarded to a senior who has been outstanding in scholarship and cooperation with the activities of the University.

THE VICTOR H. LABAT SERVICE AWARD. A plaque is awarded to a senior who has worked diligently for the general welfare of students and the University.

## The National Council, Knights of Peter Claver, Awards

THE GILBERT FAUSTINA AWARD. A monetary award is made to the senior who has demonstrated throughout his/her years at Xavier University exceptional leadership and organizing ability among fellow students. This award is in memory of the late Gilbert Faustina, first Supreme Knight of the Knights of Peter Claver.

THE LOUIS ISRAEL AWARD. A monetary award is made to the senior who throughout his/her years at Xavier University has shown an outstanding spirit of selfsacrifice in the service of his/her neighbor. This award is in memory of the late Louis Israel, second Supreme Knight of the Knights of Peter Claver.

THE ALPHONSE PIERRE AUGUSTE AWARD. A monetary award is made to the senior who throughout his/her years at Xavier University has given the finest exemplification of Christian social concern. This award is in memory of the late Alphonse Pierre Auguste, third Supreme Knight of the Knights of Peter Claver.

## Awards in the College of Pharmacy

THE LILLY ACHIEVEMENT AWARD. A gold medal provided by Eli Lilly and Company is presented to a graduating pharmacy student for superior scholarship and personal achievement. Leadership qualities and professional attitude are also considered.

THE XAVIER UNIVERSITY COLLEGE OF PHARMACY AWARD FOR EXCELLENCE. A plaque is awarded to the graduating pharmacy student who has the highest cumulative average in the professional curriculum and has taken the equivalent of at least four semesters at Xavier.

## HONOR SOCIETIES

Alpha Epsilon Delta. AED is the international premedical honor society with more than 120 chapters in the U.S. and Canada. To qualify for membership a student must be a biology, chemistry, or psychology premed major with a grade point average of at least 3.2 at the end of three semesters or a 3.0 at the end of 5 semesters of college.

Alpha Kappa Delta. Founded in 1920, Alpha Kappa Delta is the international honor society for Sociology. The letters, AKD, represent the first letters of the three classical Greek words that embody the function of the society, anthropos, meaning mankind; katamanthano, meaning to examine closely or acquire knowledge; and diakoneo, meaning to engage in service. Minimum requirements for undergraduate admission to AKD include:

- declaration of Sociology as a major or demonstration of serious interest in Sociology within an official program;
- academic status of junior; must have completed four courses in Sociology; and
- the equivalent of an overall grade point average of three on a four point scale, and rank in the top $35 \%$ of their class in general scholarship.

Alpha Kappa Mu. This national society is a multi-discipline honor society that was established at Xavier in 1941 to:

- promote high scholarship;
- encourage sincere and zealous endeavor in all fields of knowledge and service;
- to cultivate a high standard of personal living; and,
- to develop an appreciation for scholarship and scholarly endeavors in others.

Election to membership in Alpha Kappa Mu is limited to students of junior or senior status who have earned a minimum of thirty hours at Xavier with a cumulative grade point average of 3.3 or higher.

Beta Beta Beta Biological Honor Society. This national honor society is designed to stimulate interest, scholarly attainment, and investigation in the biological sciences, and to promote the dissemination of information and new interpretations among students of the life sciences. Eligibility for membership is restricted to undergraduate majors in biological science who are in good academic standing with the University and have:

- completed at least one semester of the sophomore year;
- maintained a cumulative grade point average of 3.0 with no grade of "C" or lower in ANY biology course;
- achieved at least a 3.0 grade point average in three biological science courses, at least one of which is not an introductory course; and
- obtained the recommendation of their department chair.

Chi Sigma Iota. Chi Sigma Iota was established in 1985 as the international honor society for counselors-in-training, counselor educators, and professional counselors. Its mission is to promote scholarship, research, professionalism, leadership and excellence in counseling, and to recognize high attainment in the pursuit of academic and clinical excellence in the field of counseling.

Students are eligible for membership in the Society if they are enrolled in the graduate counseling program and have completed the equivalent of at least one full academic term of courses. They must have maintained an overall a scholastic grade point average of 3.5 or better.

Kappa Gamma Pi. Kappa Gamma Pi is a Catholic College Graduate Honor Society. Xavier first became affiliated with the Society in 1941. Prospective members may be nominated upon receipt of either a baccalaureate or an advanced degree. To be eligible, a student must be of Catholic faith with an excellent academic record and outstanding service and leadership.

Kappa Phi Kappa Honor Fraternity. Kappa Phi Kappa is a national professional fraternity in education devoted to the professional development of its members. The Gamma Eta Chapter was reactivated at Xavier in 1994. Kappa Phi Kappa’s intent is to recognize and bring together those individuals who are making significant contributions to the field of education, or who show promise of providing outstanding leadership in education. The purpose of the fraternity is to develop and foster in interested persons a systematic study of educational issues. To qualify for membership a student in the initial program must have a 3.5 GPA ; and a student in the advanced program must have a GPA of 4.0. Students fulfilling the requirements receive a written invitation for membership.

Phi Alpha Delta Law Fraternity International. Phi Alpha Delta (PAD) is an international association organized to promote competency and achievement within the legal profession through developing and upholding the highest standards of professional ethics. Xavier's chapter is part of a 114,000 member worldwide network of attorneys, judges, educators, and students. Membership in PAD qualifies students for: participation in a wide array of professional programs; reception of quality reading materials; LSAT study guides and law school information; valuable contacts; and, career planning assistance. Locally, the Xavier PAD chapter is active in promoting community service, law-related speakers and forums, law school application seminars, and networking with local legal professionals. Membership is open to students of any major who are considering law as their career choice.

Phi Lambda Upsilon National Chemistry Honor Society. The Beta Xi chapter at Xavier is the only chapter at a historically Black university. To be eligible for membership a student must:

- Be majoring in a curriculum leading to a career in chemistry, chemical engineering, the health professions, or other field of applied chemistry;
- Have a 3.0 overall grade point average and be at least a junior or first year student in the College of Pharmacy; and,
- Have completed 20 semester hours of chemistry with a grade point average of 3.0 in these courses. (Summer research programs or other programs involving chemistry may be used to fulfill this last requirement.)

Psi Chi. Psi Chi, the national honor society in psychology, was founded in 1929 for the purposes of encouraging, stimulating, and maintaining excellence in scholarship, and advancing the science of psychology. Application for membership is open to Psychology majors who have: completed 42 degree credit hours; achieved a 3.0 cumulative GPA and a 3.4 GPA in Psychology; and, actively participated in the Psychology Club for a minimum of one semester. Students who meet these criteria and are interested in membership must submit a letter of intent and participate in an interview.

Rho Chi. The object of the Rho Chi Society is the promotion of scholarship, friendship, and the recognition of high attainments in the pharmaceutical sciences. Pharmacy majors with at least a 3.0 average who rank in the upper $20 \%$ of their pharmacy classes are eligible for membership. Students must also have completed at least seven semesters of work toward their degree in pharmacy.

Sigma Beta Delta. Sigma Beta Delta is a national honor society for students of business, management, or administration who are pursuing baccalaureate or master's degrees. The Society encourages and promotes aspirations toward personal and professional improvement and a life distinguished by honorable service to humankind. To qualify for membership a student must be a senior with a 3.5 average.

Sigma Tau Delta English Honor Society. The purposes of Sigma Tau Delta national honor society are to:

- Confer distinction for high achievement in English language and literature in undergraduate, graduate, and professional studies;
- Provide, through its local chapters, cultural stimulation on college campuses and to promote interest in literature and the English language in the surrounding communities;
- Foster the discipline of English in all its aspects, including creative and critical writing;
- Promote good citizenship among its members; and,
- Exhibit high standards of academic excellence.

To be eligible for membership, a student must

- Have completed at least two college courses in English language or literature beyond ENGL 1020;
- Have at least a B average in English courses;
- Rank at least in the highest $35 \%$ of his or her class in general scholarship; and
- Have completed at least three semesters of college course work.


## COMPREHENSIVE PRE-PROFESSIONAL SUPPORT

Xavier is committed to providing support for students who aspire to enter and succeed in graduate and professional schools after they leave XU. To this end Xavier provides each student an academic advisor in his/her major area, preprofessional advisors in Pre-Law, Pre-Engineering, and Pre-Medicine/Pre-Dentistry and comprehensive programs designed to help facilitate a student's entry into post-graduate study. Xavier's success in placing students into these programs is a direct result of the distribution of the advising process and the close cooperation of all advisory programs.

## Graduate School

GradStar (the Graduate Placement Program) was created to support Xavier's efforts in placing more African American students into graduate and professional school. Students from any major at Xavier are eligible to participate in the program. Students with a cumulative GPA of at least 2.75 may begin working with the GradStar office any time after their freshman year.

During the sophomore, junior and senior years, GradStar students participate in critical thinking and writing skills development, independent research projects, standardized test preparation (GRE, GMAT, LSAT), and orientation/motivation seminars on graduate school placement, application and admission. Selected GradStar students participate in campus visitations and summer research programs at many of the nation's most prestigious graduate schools. In addition, GradStar hosts recruiters from all over the country at its bi-annual Grad Fair programs.

Faculty from each academic department serve as GradStar liaisons and recommend students to the program. They are also members of the program's advisory committee.

## Health Professions

Xavier's Premedical Program is designed to help the maximum number of qualified students, especially African Americans, gain entry into and succeed in schools of medicine, osteopathic medicine, dentistry, veterinary, optometry, podiatry, public health, and health care administration. The program is designed to complement, not supplant, support provided by academic advisers within the student's major department. The Premedical Program provides a variety of information, motivational activities, advice, and individual assistance throughout a student's enrollment at the University. The program begins with an intense series of 25 group workshops for students during the freshman year. In subsequent years the number of group activities gradually decrease to be replaced by an increasing number of one-on-one advising sessions, step-by-step assistance in preparing applications for summer programs and/or health professions schools, and assistance in preparing to for the common exams required for admission into health professions schools. Materials used in both group workshops and individual advising sessions are readily available on the premedical website (www.xupremed.com) for students who missed activities or would like a reminder.

## Engineering Careers

The Office of the Pre-Engineering Director provides information and advice concerning engineering school admissions and coordinates Xavier's Dual Degree Engineering programs. Students in the Dual Degree Engineering programs are closely monitored and provide advice, assistance, and motivational activities designed to complement the support provided by academic advisers.

## Law Careers

The Office of the Pre-Law Advisor provides two basic types of advice and information:

- Curriculum advice regarding course selection, minor internships, electives and summer study programs to enhance a student's chances for law school admission; and,
- The law school application process, including law school selection, Law School Admission Test (LSAT) preparation strategies, Law School Data Assembly Service (LSDAS) procedure, law school application preparation, law school visitation and financial aid information.

In addition, the Pre-law Advisor coordinates the Law and Humanities minor and works in conjunction with the GradStar Program.

## Pharmacy Profession

The two-year Pre-Pharmacy curriculum offered through the College of Arts and Sciences prepares students academically for application to the College of Pharmacy. The pre-pharmacy advisors are dedicated to assisting students in the following areas: program planning, schedule structuring, and academic counseling.

## Curriculum

## College

## Arts and Sciences

Xavier's College of Arts and Sciences offers to men and women the opportunity to receive a liberal education so that they may develop fully as human persons who are committed to the search for truth. Through the attainment of an expansive education, Xavier students will be prepared to become contributing members and leaders in their communities. They will be motivated and prepared to contribute to a more just and humane society through service to God and others.

In each of the college's programs, students are required to take a core of prescribed studies in: arts and humanities; communications; history and the social sciences; mathematics and the natural sciences; as well as theology and philosophy. Each academic program also includes intensive work in a major field as well as in a minor discipline so that the student may be introduced to scholarly work in at least two areas. This dual exposure will give the student a firm foundation for graduate and professional studies, as well as for the world of work.

Each student must follow one of the approved programs outlined on the following pages or, in special cases, a program developed under the guidance of his/her faculty advisor and approved by the dean. The latter possibility includes a major at Loyola University in certain specified fields when that major is not offered at Xavier.

## UNDERGRADUATE DEGREES OFFERED

Bachelor of Arts (B.A.) with majors in:
*Art
Biology
Early Childhood Education
Elementary Education
*English
*French
Health and Physical Education
History
Mass Communications
Middle School Education

Music
Philosophy
Physics **
Political Science
Social Studies Education
Sociology
*Spanish
Special Education
Theology
*Teacher certification programs are also available in these majors.
**A student who completes the dual-degree program in chemical engineering is awarded a B.S. in Engineering by the Engineering School and either a B.A. or a B.S. by Xavier University, depending upon courses taken.

Bachelor of Music (B.M.) with majors in:
Performance
Music Education

Bachelor of Science (B.S.) with majors in:
Accounting
Biochemistry
*Biology
Business Administration
*Chemistry
Computer Engineering
Computer Information Systems
Computer Science

Accounting
Biochemistry
Business Administration
*Chemistry
Computer Engineering Computer Science

Health and Physical Education
*Mathematics
Microbiology
Physics
Psychology
Speech Pathology
Statistics
*Teacher certification programs are also available in these majors.
REQUIREMENTS FOR THE DEGREE
In the College of Arts and Sciences, a candidate for the degree must complete a minimum of 128 semester hours of course work with at least a 2.0 cumulative average in an approved program. Each program must include the core curriculum, a major, and a minor. The candidate must also pass a comprehensive/performance examination in his/her major field usually in the senior year. A student who has not passed the senior comprehensive, or the Praxis II or GRE for the departments which allow these tests to be used as a substitute for the senior comprehensive, will not be allowed to participate in the commencement ceremony. Approved substitutions for the senior comprehensive are stated in the departmental sections.

## MAJOR

Each candidate for a degree in the college must complete an approved major concentration of at least twenty-four, and no more than seventy-three, semester hours. Eighteen hours of these must be completed at Xavier. A minimum average of 2.0 is required by the college in the major field but individual departments may require a higher average. The approved programs are listed under the departments which offer them.

## CONSORTIUM UNIQUE MAJOR SEQUENCES

Through the New Orleans Consortium's Unique Major plan, a student in the College of Arts and Sciences may also elect a major not available at Xavier but offered by Loyola University. Under a contractual arrangement, the student, while fulfilling general Xavier requirements, will take most of his/her major courses at Loyola. The degree will be awarded by Xavier.

To be eligible to enter a Unique Major Sequence, the student must have earned at least 60 semester hours with a minimum 2.5 cumulative average. For details, the student should consult the Dean of the College of Arts and Sciences.

## DECIDING MAJORS

Students who initially do not declare a major on admittance to Xavier or those who would like to consider another major are admitted into the Deciding Majors Department. This department allows students an opportunity to receive individualized academic and career assessment and counseling, meet faculty from different disciplines and learn about the different career paths within those disciplines.

Students are allowed to stay in the department for two semesters. A grace period of one more semester is allowed for students who satisfy the require-ments below and realistically need one more semester to meet the required G.P.A. to be admitted to another department.

Students who fail to choose a major after the allotted time will be required to leave the University.

The exception to this policy is for those students with a G.P.A. of at least 2.5 who have declared a major that is not at Xavier, for example, physical therapy, nursing, etc. These students may complete all their preliminary course requirements within the Deciding Majors Department.

Students who are admitted into the Deciding Majors Department must meet the following requirements:
a) take interest inventory survey(s) to determine a career interest;
b) attend interpretation session(s);
c) attend session(s) with career counselors;
d) attend departmental meetings where guest faculty of different disciplines discuss the career paths within their disciplines; and
e) meet with potential chairperson(s) or faculty within departments.

Students who meet the above requirements generally are able to select a major within one to two semesters.

## MINOR

Each student's program of studies must include a minor in an academic discipline other than the major discipline. The minor is composed of not less than 18 or more than 21 semester hours. When a curriculum has a "built-in" minor, the student is required to complete that minor. Each student must declare a minor at the beginning of the junior year unless it has already been declared or has been determined by the major. Declaration of the minor is completed when the appropriate form is submitted to the Registrar's office by the student.

Prescribed minors are found in this catalog within the descriptions of the various departments which offer them. Successful completion of an official minor will be designated on the student's official record. The official minor designation requires that a minimum of 12 of these hours be completed at Xavier.

A student may also satisfy the minor requirement by successfully completing an interdisciplinary minor which has been approved by the Academic Council of the college or by successfully completing a double concentration. A double concentration consists of at least twelve hours in each of two disciplines. The specific twelve hours must be approved by the chairperson of the student's major department and the chairperson of the other two departments as well as the dean of the college.

Any exceptions to the above must be approved by the student's chairperson and the dean of the college.

## THE CORE CURRICULUM

The College of Arts and Sciences has a general education requirement, or Core Curriculum, designed to provide a common base of knowledge, values, and skills essential to the education of each student, and upon which individual departments can build their specialized programs. The Core Curriculum is also intended to stimulate the student's curiosity in areas other than his/her chosen specialization and to provide the inspiration and foundation for further intellectual development.

The goals of the Core Curriculum are:
To introduce the student to the common elements of the human heritage with special attention devoted to the richness and diversity of that heritage;

To assist the student to reason effectively;
To assist the student to develop a system of values that will serve as a guide for making ethical and moral decisions;

To assist the student to develop the knowledge and skills necessary to communicate effectively;

To introduce the student to concepts, methods and skills necessary to participate effectively and responsibly in society, as well as the skills to create a more humane society.

The faculty believes that in order to achieve these goals the Core Curriculum should include courses which contribute to the development of a student who has:
the ability to write and speak effectively,
the ability to reason effectively and to think both critically and creatively,
the ability to respond to the basic questions of humanity and to develop a system of personal values,
a familiarity with and an understanding of the past, an acquaintance with a foreign language, an appreciation of the arts and of literature, acquaintance with the scientific method,
quantitative and computational skills and an acquaintance with the essential nature of mathematics,
an understanding of the psychological, social, economic, and political forces which move and shape the world in which the student lives,
acquaintance with concepts of the biological and physical sciences, and
acquaintance with the principles of physical well-being and with the creative use of leisure time.

Therefore, a Core Curriculum has been established which requires that each degree program contains the following:

## Core Curriculum


Natural Science (including at least one semester hour of laboratory work) ........... 6Physical Education**1
ocial Sciences ..... 6the following disciplinesPSCI: 1010, 1020;PSYC: 1010;Speech CommunicationTheology***6
(HIST 1030-1040) ..... 6
(ENGL 2010) ..... 3
Free Electives ..... 8

## DEPARTMENT OF ART

The Art Department offers a means of enriching visual experiences and visual awareness for the university and the community. For the art major, it also offers basic professional training through broad studio experiences, assisting the individual to find and build upon his/her own strengths. Personal and creative growth is fostered not only through course programs, but through exposure to the art of others, including constant interaction with faculty actively involved with creative work, and through ongoing participation in the enhancement of the visual environment.

Two programs are available to the art major -- the B.A. Program in Art and the B.A. Program in Art Education. The first broadens career opportunities in visual arts, specifically in sculpture, painting, ceramics, graphic design, and printmaking. The Program in Art Education certifies the prospective art teacher for primary and secondary schools.

Freshmen entering the Department as majors are required to give some evidence of special ability in the field prior to admission. Admission to sophomore level and above art classes is dependent on approval of the majority of the art faculty, based on the student's demonstration during the preceding year in the areas of drawing, sense of design, consistent growth, and professional attitudes. Each major will participate in an annual review with the faculty in order to assess the student's demonstrated skills. Students will be required to maintain a journal/sketchbook. This book should contain all materials given to students in and out of art classes as well as information students find important.

Entering freshmen may compete for scholarships in accordance with the following guidelines:

1. The student must have completed an application for admission and have been accepted by the university before any scholarship is considered.
2. Three original works, each representing a different medium, are to be presented to the department by May 1 prior to the fall the student plans to enter. Works are sent and returned at the student's expense and risk.

Transfer and unique major students are referred to the pertinent section of the catalog. The Art Department reserves the right either to accept studio art credits from other institutions or to require the student to take further courses in the XU Art Department. The decision will be based on the quality of the work submitted by the student.

At least one work of each graduating senior may be retained by the Department, and each graduating senior must present to the Department twelve color slides representing his/her best work. Majors are required to pass a comprehensive examination, and regular attendance at all departmental meetings is required. Also, in order for any of the departmental offerings to be counted for degree credit, a student must earn a "C" or better.

Art majors in the B.A. in Art Program are required to take 54 semester hours in art courses of which twelve (9) hours are electives in a chosen media or other art courses. The following are required in the B.A. in Art Program: Art 1010, 1020, 1030, 1040, 1050, 1060, 1090, 2020, 2030, 2040, 2070, 2080, 2110, 2120, and 2130.

Majors in Art Education are required to take 51 semester hours in art. The following are required in the B.A. in Art Education Program: Art 1010, 1020, 1030, 1050, 1060, 1090, 2020, 2070, 2080, 2110, 2120, and 3000.

Minor in Art -- In addition to the two major programs the Art Department also offers a minor in Art for those students majoring in another discipline. In the minor, nine (9) hours are required -- Design I (ART 1010-1020) and Drawing I (ART 1030). Nine hours are to be chosen from:

Art History (ART 2110-2120)
Art of the 20th Century (ART 2130)
Black \& White Photography (ART 3011)
Calligraphy (ART 3170)
Ceramics (ART 1050, 3110, 3120)
Color Photography (ART 3022)
Drawing II (ART 2030-2040)
Graphic \& Advertising Design (ART 2020, 4010, 4020)
Painting (ART 1060, 3050, 3060)
Printmaking (ART 2080, 3090, 4100)
Sculpture (ART 2070, 3070, 3080)
Arts Management Minor - The Arts Management program minor is designed to give students the entrepreneurial skills needed in an economy driven more and more by creative enterprise. The Arts Management Program infuses the ideals of cultural awareness and nonprofit management with the art courses to create an innovative arts management program. The mission of the Arts Management Program is to help students develop analytical and strategic skills while expanding their understanding of artistic disciplines and their importance to community building and social enterprise. Goals include incorporating and documenting the arts as an agent for social change and a tool to build community relationships. The community aspects of working in not-forprofit management will be emphasized in this minor. Through the Art 2600 and 3200 courses, students will be encouraged to gain practical experience through intern and volunteer opportunities with community based art organizations.

Students must complete 18 credit hours in this declared minor, which includes nine (9) hours of art courses and nine (9) hours of business courses for those students who are not art or business majors*.

## Art Courses

ART 1090 Art Appreciation
ART 2600 Community Development through the Arts
ART 3200 Arts Trends and Policy

## Business Courses

ACCT 1010 Principles of Accounting I
BSAD 2020 Intro to Entrepreneurship
BSAD 3780 Organization and Operation of a Small Business
*Art and Business majors can chose 18 hours of the above courses that do not for fill another requirement in their major. The remaining hours can be elected from the art or business curriculum.

Art 1010-1020
Art 1030-1040
Art 1090-1050
English 1010-1020
Mathematics
Physical Education
Speech Communication 1010
Computer Competency Exam
University 1010-1020
PROGRAM IN ART
FRESHMAN YEAR
$\begin{array}{lc}\text { Semester Hours } \\ \mathbf{1 1}^{\text {st }} & \mathbf{2}^{\text {nd }} \\ \text { Semester } & \text { Semester }\end{array}$

| Semester | Semester |  |
| :---: | :---: | :---: |
| 3 | 3 | Design IA-IB |

$3 \quad 3 \quad$ Drawing IA-IB
$3 \quad 3$ Art Appreciation/Ceramics
33 Comp \& Rhetoric/Comp \& Lit.
3 Core Requirement
Activity Course or Test
Fundamentals of Public Speaking
A\&S Requirement

| 0 | 0 | Freshman Orientation |
| :---: | :---: | :---: |
| 16 | 15 |  |

## SOPHOMORE YEAR

Art 2020
Art 2030-2040
Art 2070-2080
Art 2110-2120
African American Studies
English 2010
History 1030-1040
Theology
Student Competency Exams

Art 2130
Art 1070/Art Elective
Foreign Language
Social Sciences
Theology
Minor
Electives
JUNIOR YEAR

|  | 3 | Ast |
| :---: | :---: | :---: |
| 3 | 3 | Scı |
| 3 | 3 | C |
| 3 | 3 | C |
| 3 | 6 |  |
| 3 |  |  |
| 18 | 18 |  |

SENIOR YEAR
Art elective
Art 4999
Natural Science
Philosophy
Social Sciences
Minor
Free Electives

## Semester Hours

## Semester Hours

## Senior Comprehensives Core Requirement Core Requirement Core Requirement

| 3 | 2 |
| :---: | :---: |
| 18 | 14 |

## SUMMARY

African American Studies 3
Art 54
English 9
Foreign Language 6
History 6
Mathematics 3
Natural Sciences 6
Philosophy 6

Physical Education 1
Speech Communication 3
Social Sciences 6
Theology 6
Minor 18
Free Electives $\quad \begin{array}{r}8 \\ \end{array}$
Total Semester Hours $\quad \overline{135}$

## PROGRAM IN ART EDUCATION

Art Education majors should note that certification requirements are established by the Louisiana Department of Education and are subject to change. Students should consult their advisors each semester. Education majors should consult the Division of Education section in this catalog for requirements to be formally admitted into Xavier's Teacher Education Program.

Art 1010-1020
Art 1030-1040
Art 1090
FRESHMAN YEAR

| Semester Hours |  |  |
| :---: | :---: | :---: |
| $1^{\text {st }} \quad 2^{\text {nd }}$ |  |  |
| Semester | Semester |  |
| 3 | 3 | Design IA-IB |
| 3 | 3 | Drawing IA-IB |
| 3 |  | Art Appreciation |
|  | 0 | Teacher Prep |
| 3 | 3 | Comp \& Rhet. /Comp Lit. |
| 3 | 3 | World Civilizations |
| 3 | 3 | Modern Math/Basic Stat. |
|  | 3 | Fundamentals of Public Speaking |
| 0 |  | A\&S Requirement |
| 0 | 0 | Freshman Orientation |
| 18 | 18 |  |

SOPHOMORE YEAR

Art 1050-1060
Art 2020-2080
Art 2030-2040
Education (EDSP) 2040
Education (EDUC) 2005R
Education (EDUC) 2005W
Education (EDUC) 2005M
Biology 1030/1030L-
1040/1040L
English 2010
Integrated Physical Science 2010
Physical Education
Free Elective
Student Competency Exam

| 3 | 3 | Ceramics/Painting |
| :--- | :--- | :--- |
| 3 | 3 | Graphics/Printmaking |
| 3 | 3 | Drawing IIA-IIB |
| 3 |  | Intro. to Exceptional Children <br>  |
|  | 0 | Praxis PPST Reading <br>  <br>  <br> 3 |
| 3 | 0 | Praxis PPST Writing <br> Praxis PPST Math |
|  | 3 | General Biology |
|  | 3 | World Literature |
|  | 1 | Integrated Physical Science |
|  | 2 |  |
|  | 0 | University Requirement |
|  | 18 | 18 |

3 Ceramics/Painting
3 Graphics/Printmaking
Intro. to Exceptional Children
Praxis PPST Reading Praxi PPST Math

General Biology
World Literature
Integrated Physical Science
Core Requirement
University Requirement

JUNIOR YEAR
All majors must have passed all parts of Praxis I and should have been accepted into the Teacher Education Program before taking junior-level education courses.

Art 2110-2120

| 3 | 3 | History of Art IA - IB <br> Art of the 20 |
| :---: | :---: | :--- |
| 3 | Th Century <br> Trends in Art Education <br> Praxis II: Princ. of Lear. \& Teach. |  |
| 3 | 3 | Classroom Org. \& Management <br> Special Methods |
| 3 |  | Educational Psychology <br> Adolescent Psychology <br> 3 |
| 3 | 3 | Core Requirement <br> Core Requirement |
| 18 | 18 |  |

## SENIOR YEAR

| Art 2090 | 3 | Art Essentials for Teachers |  |
| :---: | :---: | :---: | :---: |
| Art 2070 |  | Intro to Sculpture |  |
| Art 4999 |  | Senior Comprehensives |  |
| Education (EDSC) 4061 T |  | Student Teaching |  |
| Education (EDUC) 4060S |  | Student Teaching Seminar |  |
| Education (EDUC) 4200 |  | Multicultural Education |  |
| African American Studies | 3 | Core Requirement |  |
| Social Sciences | 3 | Core Requirement |  |
| Free Elective | 3 | Core Requirement |  |
|  | 15 |  |  |
| SUMMARY |  |  |  |
|  | Semester Hours |  | Hours |
| Art | 51 | Integrated Physical Science | 3 |
| African American Studies | 3 | Mathematics | 6 |
| Biology | 6 | Philosophy | 6 |
| Education | 27 | Social Sciences | 3 |
| English | 9 | Speech Communication | 3 |
| Health \& Physical Ed. | 1 | Theology | 6 |
| History | 6 | Free Electives | 5 |
|  |  | Total Semester Hours | 135 |

## DEPARTMENT OF BIOLOGY

The study of life in its myriad forms is an enriching experience which enhances the spiritual and cultural development of those who engage in it. The Biology Department is dedicated to fostering a richer and fuller appreciation of the living world in all students, both majors and non-majors.

The Department offers B.S. degree programs in Biology, Microbiology and Biology Education and a B.A. degree program in Biology. The Biology and Microbiology programs provide excellent preparation for a number of different career paths and for graduate school or medical school. Students majoring in Biology may, if they wish, designate themselves Pre-Medicine when declaring their major. The Microbiology program is especially appropriate for students interested in graduate study in microbiology, immunology, cell biology, or biochemistry. The Biology Education major enables students to obtain certification from the State of Louisiana as teachers of high school biology at the same time that they receive their undergraduate degree. The B.A. in Biology is designed to serve those biology majors who are interested in combining their study of biology with other disciplines such as pre-law, marketing, social sciences, history, etc. This degree will not prepare students for graduate programs in biology or for medical or dental schools. Students who later may wish to pursue graduate programs in biology or attend professional school will be required to take additional courses in chemistry, physics and mathematics.

Biology Pre-Medicine majors have the option of choosing the accelerated program. This program enables them to seek admission to medical school at the end of their junior year. Courses taken during the first year of professional school may be substituted for those usually taken during the senior year at Xavier. The B.S. degree from Xavier is awarded at the completion of these courses. This accelerated program does not exempt a student from the Core Curriculum or required biology courses.

ONLY BIOLOGY COURSES COMPLETED WITH A GRADE OF "C" OR BETTER WILL BE COUNTED TOWARDS THE MAJOR. Except in unusual circumstances, students who must repeat more than two biology courses will not be permitted to continue as biology majors, and no biology course may be repeated more than once. Also, majors are required to pass a comprehensive examination.

Xavier is an AFFILIATE INSTITUTION of the Gulf Coast Research Laboratory, Ocean Springs, Mississippi. Xavier students are eligible to take courses at this institution.

The Department recognizes a special obligation to students who choose to major in biological sciences and is committed to the task of providing these individuals with knowledge and opportunities which will enable them to become contributing members of society in their chosen fields. These students, upon graduation from Xavier, should be able to successfully pursue graduate or professional study, careers in research and teaching, or fill other positions requiring a background in biology. To achieve these goals, the Biology Department will attempt to:

1. provide the students with knowledge of basic biological concepts so that they may be able to explain the concepts, interpret data in the light of these concepts, and organize these concepts in such a manner as to indicate an understanding of their interrelatedness.
2. provide practice in the use of the scientific method and tools of research so that the students may be able to organize a scientific problem, investigate the problem, and present their findings using an acceptable scientific format.

## Required and elective courses in the Department

For the major in Biology or Biology-PreMed (including the $3+1$ accelerated track): BIOL 1230/1230L, 1240/1240L, 2000/2000L, 2010/2010L, 3110/3110L, 4210 and fifteen hours of biology electives.

For the major in Microbiology:

1. BIOL $1230 / 1230 \mathrm{~L}, 1240 / 1240 \mathrm{~L}, 2010 / 2010 \mathrm{~L}, 3081 / 3081 \mathrm{~L}, 3110,4250 / 4250 \mathrm{~L}$, and 4210;
2. Any three of the following: BIOL 3070/3070L, 3150, 4220, 4240;
3. Sufficient hours of Biology electives for a total of at least 36 hours of Biology courses. Recommended are BIOL 3360/3360L, 3091/3091L, 3210/3210L, 4300 and 4402L (4402L) may be repeated once for credit.

Students in all programs should note that: 1) required courses MUST be taken in sequence as indicated in the curricula outlined below; 2) Biology electives are not to be attempted until all required courses in the Department are successfully completed; 3) students should realize the value of laboratory experience and schedule accompanying laboratory courses when selecting electives, although for sufficient reason the lab can be omitted; 4) all students regardless of their program are to register for BIOL 4999 -- Senior Comprehensives IN THE FALL SEMESTER FOR STUDENTS PLANNING TO GRADUATE IN MAY, AND IN THE SPRING FOR STUDENTS PLANNING TO GRADUATE IN DECEMBER. Students will not be permitted to attempt senior comprehensives unless they have at least a 2.0 grade point average both overall and in the major, and have satisfactorily completed all specifically required biology courses and all Sophomore Competency exams.

In planning their elective courses, students should consult with their faculty advisors, who will assist them in choosing courses that are appropriate for the student's interests and goals.

Honors in Biology -- Each spring the department will select a limited number of students for possible graduation "with Honors in Biology." Students who achieve this distinction will have maintained at least a 3.50 grade point average in Biology and 3.30 grade point average overall, WITH NO GRADE OF "C" OR LOWER IN ANY BIOLOGY COURSE, throughout their undergraduate careers. Biology, Biology PreMed and Microbiology majors who satisfy these minimum requirements and who wish to be considered for the program are asked to apply by letter early in the spring semester of the Junior year. Students will be notified of the outcome of their application in writing. Successful applicants will be required to register for BIOL 4011S/4021S -- Honors Seminar, rather than BIOL 4210, during their Senior year. This course carries one hour of academic credit which will be awarded ONLY AFTER SUCCESSFUL COMPLETION OF BOTH SEMESTERS. Students will be required to submit a paper on their seminar topic to their seminar mentor during the semester in which the seminar is given. STUDENTS WILL BE DROPPED FROM THE PROGRAM IF THEY FAIL TO CONTINUE TO MEET THE ACADEMIC REQUIREMENTS GIVEN ABOVE.

Minor in Biology -- Students in other majors who wish to minor in Biology must take 1230/1230L, 1240/1240L, and at least ten hours of biology numbered above 1240.

# B.S. PROGRAM IN BIOLOGY <br> FRESHMAN YEAR <br> $\begin{array}{lc}\text { Semester Hours } \\ \mathbf{1}^{\text {st }} & \mathbf{2}^{\text {nd }} \\ \text { Semester } & \text { Semester }\end{array}$ 

Biology 1230/1230L 1240/1240L
Chemistry 1010/1010D/1011L 1020/1020D/1021L
English 1010-1020
History 1030-1040
Speech Communication 1010
Computer Competency Exam
University 1010-1020

Biology 2000/2000L
Biology 2010/2010L
Chemistry 2210/2210D/2230L 2220/2220D/2240L
Mathematics 1030 (if needed)

| 4 | 4 | General Biology |
| :--- | :--- | :--- |
| 4 | 4 | General Chemistry I- II |
| 3 | 3 | Comp and Rhetoric/Comp \& Lit. |
| 3 | 3 | World Civilizations <br>  <br> 0 |
| 0 | 0 | Fundamentals of Public Speaking |
| A\&S Requirement |  |  |
| 14 | 17 | Freshman Orientation |

## SOPHOMORE YEAR

4 Biodiversity
4 Microbiology
44 Organic Chemistry I - II
4 Precalculus
Mathematics 1070\#
Social Sciences
English 2010
3
Philosophy
Theology
Student Competency Exams
4 Intro. Calculus
3 Core Requirement
World Literature
Core Requirement
3 Core Requirement
$0 \quad$ University Requirement
\# A student following a Biology curriculum (except the Accelerated Premedical curriculum) who has by-passed Pre-Calculus with the approval of the University should take MATH 1070 (Introductory Calculus) in the fall semester of the sophomore year, to be eligible for timely completion of the Sophomore Competency Tests. Failure to do so will not only delay completion of the Sophomore Comps but will make it necessary for the student to seek a waiver in order to take BIOL 3110 - General Genetics.

Biology 3110/3110L
Biology
African American Studies
Foreign Language
Physics 2010/2010L -
2020/2020L
JUNIOR YEAR

| 4 |  | Genetics |
| :---: | :---: | :--- |
|  | 4 | Elective |
| 3 | 3 | Core Requirement |
| 4 | 3 | Core Requirement |
| 4 | 4 | General Physics |
| 3 | 3 | Core Requirement |
| 3 |  | Core Requirement |
| 17 | 17 |  |

Biology 4210*

| SENIOR YEAR |  |  |
| :---: | :---: | :--- |
| $1 / 0$ | $1 / 0$ | Intro. to Scientific Lit. |
| 6 | 5 | Senior Comprehensives |
| 0 | 4 | Biochemistry |
| 3 |  | Core Requirement |
| 1 |  | Core Requirement |
| 3 | 5 |  |
| $13 / 14$ | $14 / 15$ |  |

*One hour credit is required; may be taken in either semester.

|  | Semester Hours |  | Semester Hours |
| :--- | ---: | :--- | ---: |
| African American Studies | 3 | Philosophy | 6 |
| Biology | 36 | Physical Education | 1 |
| Chemistry | 20 | Physics | 8 |
| English | 9 | Social Sciences | 6 |
| Fine Arts | 3 | Speech Communication | 3 |
| Foreign Language | 6 | Theology | 6 |
| History | 6 | Free Electives | 8 |
| Mathematics | 8 | Total Semester Hours | 129 |


\section*{B.S. PROGRAMAN BIOLOGY <br> (Accelerated Premedical 3+1-Curriculum) FRESHMAN YEAR <br> | Semester Hours |  |
| :---: | :---: |
| $\mathbf{1}^{\text {st }}$ | $\mathbf{2}^{\text {nd }}$ |}

Biology 1230/1230L 1240/1240L
Chemistry 1010/1010D/1011L 1020/1020D/1021L
English 1010-1020
Mathematics 1030 (if needed)
Mathematics 1070
Speech Communication 1010
Computer Competency Exam
University 1010-1020

Biology 2000/2000L
Biology 2010/2010L
Chemistry 2210/2210D/2230L 2220/2220D/2240L
Foreign Language
Philosophy
Physics 2010/2010L -
2020/2020L
Theology
Student Competency Exams

Biology 3110/3110L
Biology 4210*
Biology 4999
African American Studies
English 2010

## SOPHOMORE YEAR

| PHOR | YEAR <br> Biodiversity <br> Microbiology |  |
| :---: | :---: | :--- |
| 4 | 4 | 4 | | Organic Chemistry I - II |
| :--- |
| 3 |
| 3 |

Credits Accepted from Medical School:Biology electives15
Chemistry electives ..... 4
Free electives ..... 8

|  | Semester Hours |  | Semester Hours |
| :--- | ---: | :--- | ---: |
| African American Studies | 3 | Philosophy | 6 |
| Biology | 36 | Physical Education | 1 |
| Chemistry | 20 | Physics | 8 |
| English | 9 | Social Sciences | 6 |
| Fine Arts | 3 | Speech Communication | 3 |
| Foreign Language | 6 | Theology | 6 |
| History | 6 | Free Electives | 8 |
| Mathematics | 8 | Total Semester Hours | 129 |

*One hour credit is required; may be taken in either semester.

| B.S. PROGRAM IN MICROBIOLOGY |  |  |  |
| :---: | :---: | :---: | :---: |
| Microbiology majors should take note of the differences in departmental |  |  |  |
| requirements between this curriculum and that for the major in Biology. See under "Required and elective courses in the department." |  |  |  |
| FRESHMAN YEAR |  |  |  |
| Semester Hours |  |  |  |
|  | $1^{\text {st }}$ | $2^{\text {nd }}$ |  |
|  | Semester | Sem |  |
| Biology 1230/1230L - |  |  |  |
| 1240/1240L | 4 | 4 | General Biology |
| Chemistry 1010/1010D/1011L - |  |  |  |
| 1020/1020D/1021L | 4 | 4 | General Chemistry I - II |
| English 1010-1020 | 3 | 3 | Comp and Rhetoric/Comp \& Lit. |
| History 1030-1040 | 3 | 3 | World Civilizations |
| Speech Communication 1010 |  | 3 | Fundamentals of Public Speaking |
| Computer Competency Exam | 0 |  | A\&S Requirement |
| University 1010-1020 | 0 | 0 | Freshman Orientation |
|  | 14 | 17 |  |
| SOPHOMORE YEAR |  |  |  |
| Biology 2010/2010L | 4 |  | Microbiology |
| Biology 3081/3081L |  | 4 | Diagnostic Microbiology |
| Chemistry 2210/2210D/2230L - |  |  |  |
| 2220/2220D/2240L | 4 | 4 | Organic Chemistry I - II |
| English 2010 | 3 |  | World Literature |
| Mathematics 1030 (if needed) | 4 |  | Precalculus |
| Mathematics 1070\# |  | 4 | Intro. Calculus |
| Philosophy | 3 |  | Core Requirement |
| Social Sciences |  | 3 | Core Requirement |
| Theology |  | 3 | Core Requirement |
| Student Competency Exams |  | 0 | University Requirement |
|  | 18 | 18 |  |

\# A student following a Biology curriculum (except the Accelerated Premedical curriculum) who has by-passed Pre-Calculus with the approval of the University should take MATH 1070 (Introductory Calculus) in the fall semester of the sophomore year, to be eligible for timely completion of the Sophomore Competency Tests. Failure to do so will not only delay completion of the Sophomore Comps but will make it necessary for the student to seek a waiver in order to take BIOL 3110 - General Genetics.

Biology 3110
Biology 4250/4250L
African American Studies
Fine Arts 3
Foreign Language
Philosophy
Physical Education
Physics 2010/2010L 2020/2020L
Social Sciences

Biology 4210*
Biology Electives**
Biology 4999
Chemistry 4130/4130L
Theology
Free Electives

JUNIOR YEAR

| 3 | 4 | Genetics <br>  <br>  <br> 3 |
| :---: | :---: | :--- |
| 3 | Molecular Genetics |  |
| Core Requirement |  |  |
|  | 3 | Core Requirement |
|  | 3 | Core Requirement |
|  | 1 | Core Requirement |
|  | Core Requirement |  |
| 4 | 4 | General Physics |
| 3 |  | Core Requirement |

## SENIOR YEAR

| $1 / 0$ | $1 / 0$ | Intro. to Scientific Lit. |
| :---: | :---: | :--- |
| 7 | 5 |  |
| 0 |  | Senior Comprehensives |
| 4 |  | Biochemistry |
| 3 | 3 | Core Requirement |
| 3 | 5 |  |
| $15 / 14$ | $14 / 13$ |  |

## SUMMARY

## Semester Hours

Semester Hours

| African American Studies | 3 | Philosophy | Semester |
| :--- | ---: | :--- | ---: |
| Biology | 36 | Physical Education | 6 |
| Chemistry | 20 | Physics | 1 |
| English | 9 | Social Sciences | 8 |
| Fine Arts | 3 | Speech Communication | 6 |
| Foreign Language | 6 | Theology | 3 |
| History | 6 | Free Electives | 6 |
| Mathematics | 8 | Total Semester Hours | 8 |

[^3]
## B.A. PROGRAM IN BIOLOGY <br> FRESHMAN YEAR <br> Semester Hours <br> $1^{\text {st }} \quad 2^{\text {nd }}$ <br> Semester Semester

Biology 1230/1230L -
1240/1240L
Chemistry 1010/1010D/1011L 1020/1020D/1021L

| 4 | 4 | General Biology |
| :--- | :--- | :--- |
| 4 | 4 | General Chemistry I - II |
| 3 | 3 | Comp and Rhetoric/Comp \& Lit. |
| 3 | 3 | World Civilizations |
| 0 | 3 | Fundamentals of Public Speaking |
| 0 | 0 | A\&S Requirement |
| 0 | Freshman Orientation |  |
| 14 | 17 |  |

## SOPHOMORE YEAR

Biology 2000/2000L
Biology 2010/2010L
Chemistry 2210/2210D
4 Biodiversity

African American Studies
English 2010
3

3
Mathematics 1030
3
Philosophy
3
Physical Education
1
Social Sciences
4 Microbiology
Organic Chemistry
3 Core Requirement World Literature
Core Requirement
Core Requirement
Core Requirement
3 Core Requirement
Theology
Core Requirement
Minor
Student Competency Exams

Biology 3110/3110L
Biology Elective
Foreign Language
Philosophy


Physical Science
Social Sciences
UUNIOR YEAR

Theology
Minor

Genetics
Core Requirement Core Requirement

Core Requirement Core Requirement

Biology 4210*
Biology Electives**
Biology 4999
Fine Arts
4

Minor
Free Electives

## SENIOR YEAR

| $1 / 0$ | $1 / 0$ | Intro. to Scientific Lit. |
| :---: | :---: | :--- |
| 7 | 5 |  |
| 0 |  | Senior Comprehensives |
| 3 |  | Core Requirement |
| 3 | 3 |  |
| 3 | 6 |  |
| $17 / 16$ | $15 / 14$ |  |

[^4]
## SUMMARY

Semester Hours

## Semester Hours

## African American Studies 3

Biology 36
Chemistry 11
English 9
Fine Arts 3
Foreign Language 6
History 6
Mathematics 3
$\begin{array}{ll}\text { Philosophy } & 6\end{array}$
Physical Education 1
Physical Science 3
Social Sciences 6
Speech Communication 3
Theology 6
Minor 18
Free Electives $\quad 9$
Total Semester Hours $\quad 129$

## B.S. PROGRAM IN BIOLOGY EDUCATION <br> (Certification - Biology and General Science)

Biology Education majors should note that certification requirements are established by the Louisiana Department of Education and are subject to change. Students should consult their advisors each semester. Education majors should consult the Division of Education section in this catalog for requirements to be formally admitted into Xavier's Teacher Education Program.

Biology 1230/1230L1240/1240L
Chemistry 1010/1010D/1011L 1020/1020D/1021L $1020 \mathrm{H} / 1020 \mathrm{D} / 1021 \mathrm{~L}$
Education (EDUC) 1000
English 1010-1020
History 1030-1040
Philosophy
Physical Education
Speech Communication 1010
Computer Competency Exam
University 1010-1020

Biology 2000/2000L
Biology 2010/2010L
Education (EDUC) 2044
Education (EDUC) 2005R
Education (EDUC) 2005W
Education (EDUC) 2005 M
African American Studies
Chemistry 2210/2210D/2230L
English 2010
Mathematics 1030
Mathematics 1020
Social Sciences
Theology
Free Electives
Student Competency Exams

## FRESHMAN YEAR

Semester Hours<br>$1^{\text {st }} \quad 2^{\text {nd }}$<br>Semester Semester

| 4 | 4 | General Biology I \& II |
| :---: | :---: | :--- |
| 4 | 4 | General Chemistry I \& II <br>  <br> 3 |
| 3 | 0 | Teacher Prep <br> Comp \& Rhet./Comp \& Lit |
| 3 | 3 | World Civilizations <br> Core Requirement <br> Core Requirement <br>  <br> 0 |
| 1 | 3 | Fundamentals of Public Speaking <br> A\&S Requirement |
| 17 | 0 | Freshman Orientation |

## SOPHOMORE YEAR

4

## Biodiversity

 Microbiology$3 \quad$ Class. Org. \& Management
0 Praxis PPST Reading
0 Praxis PPST Writing
0 Praxis PPST Math
3 Core Requirement Organic Chemistry I World Literature I Pre calculus
3 Basic Statistics I Core Requirement Core Requirement
3
2
$\qquad$ Univ. Requirement

## JUNIOR YEAR

All majors must have passed all parts of Praxis I and should have been accepted into the Teacher Education Program before taking junior-level Education and Psychology courses.

| Biology 3110/3110L | 4 |  | Genetics |
| :---: | :---: | :---: | :---: |
| Biology Electives |  | 4 |  |
| Biology 4210 |  | 1 | Introduction to Scientific Lit. |
| Education (EDUC) 3005L |  | 0 | Praxis II: Princ. of Lear. \& Teach. |
| Education (EDSP) 2040 | 3 |  | Intro. to Exceptional Children |
| Education (EDSC) 3023 | 3 |  | Methods of Teaching Science |
| Education (EDSC) 3023B |  | 3 | Meth. For Preservice Biol. Teachers |
| Education (EDUC) 3040 | 3 |  | Educational Psychology |
| Education (EDUC) 4090 |  | 3 | Adolescent Psychology |
| Physics 2010/2010L- |  |  |  |
| 2020/2020L | 4 | 4 | General Physics I \& II |
| Theology |  | 3 | Core Requirement |
|  | 17 | 18 |  |

Philosophy
SUMMER
$\frac{3}{3}$

Core Requirement

SENIOR YEAR
Biology 4550
Biology Electives
Education (EDUC) 3005B
Education (EDSC) 4065
Education (EDSC) 4060S
Education (EDSC) 4150
Education (EDSC) 4200
Integrated Physical Science 2020
Fine Arts
Theology
Free Elective

Advanced Reading in Biology Elective
Praxis II: Biol, Chem., \& Gen. Sci.
9 Student Teaching
0 Student Teaching Seminar
Teaching Reading in Content Area
3 Multicultural Education
Earth Science
Core Requirement
Core Requirement

SUMMARY
Semester Hours

| African American Studies | 3 | Integrated Physical Science* | 3 |
| :--- | ---: | :--- | ---: |
| Biology | 36 | Mathematics | 7 |
| Chemistry* | 12 | Philosophy | 6 |
| Education | 33 | Physics* | 8 |
| English | 9 | Social Sciences | 3 |
| Fine Arts | 3 | Speech Communication | 3 |
| Physical Education | 1 | Theology | 6 |
| History | 6 | Free Electives | 3 |
|  |  | Total Semester Hours | 142 |

[^5]
## DEPARTMENT OF BUSINESS

The Department of Business has the overall goal of enabling students to integrate the knowledge from various disciplines in order that they may make significant contributions in life and in the business profession. These goals include: 1) to enable students to understand the basic concepts in business; 2) to enable them to interpret and analyze business data scientifically; 3) to equip students with the managerial skills that require knowledge of computer applications in business; and 4) to prepare students with the necessary tools to succeed in graduate and professional schools.

The department is accredited by the Association of Collegiate Business Schools and Programs (ACBSP). The accreditation certifies that the teaching and learning process within the Business Department meet the rigorous educational standards established by ACBSP. In line with ACBSP's mission, the department strives to establish, promote, and recognize educational practices that contribute to the continuous quality improvement of business education programs, teaching of business courses, and student learning outcomes.

The department's objectives are attained through the university core curriculum, the business core program plus an elective area in business. The department offers two degree programs: (1) Accounting and (2) Business Administration. In the Business Administration major, the student is required to choose one of the following four areas of concentration: Finance, Management, Management Science, or Sales and Marketing. Students with a major in the Department of Business need not declare a separate minor. The minor is automatically selected by the curriculum chosen by the student.

The department offers an ideal program which includes foundational requirements (introductory courses), requirements that provide breadth in the discipline (elective courses), a depth dimension which probes the structure more deeply (major courses), and a capstone experience, whereby students apply their knowledge and skills in creative and systematic ways through research and writing.

Students majoring in Accounting must earn a grade of "C" or better for all Accounting courses (designated as ACCT). Students majoring in Business Administration must earn a grade of "C" or better for all courses in the respective concentration (See Concentration Requirements in the Program in Business Administration).

Further, all departmental majors must earn a grade of "C" or better in English 10101020 and in Mathematics 1030. All departmental majors must earn a cumulative average of 2.0 in their departmental courses.

Majors are required to pass a comprehensive examination in their representative programs for graduation.

As of January of 1997, the Louisiana State Board of Certified Public Accountants requires candidates to have a college degree and a minimum of 150 degree credit hours to take the C.P.A. Exam.

Senior Comprehensive Examination - In their senior year, all majors in the Business Department are required to register for and successfully complete a written examination comprehensive of general topics covered during the course of their specific academic programs. In the catalog this is designated as either ACCT 4999 (for Accounting majors) or BSAD 4999 (for all Business Administration majors regardless of the area of concentration). There are two parts to the senior comprehensive exam: (1) the ETS major field test and (2) the Concentration. Part 1 is a two-hour objective test produced by the Educational Testing Service. Part 2 is a department produced two-hour test that assesses the students' skills in their specific
concentration. The schedule for the ETS, Concentration, and retakes (if necessary) is as follows:

|  | First ETS <br> Exam | ETS Retake <br> (if necessary) | First <br> Concentration <br> Exam | Concentration <br> Exam Re-take <br> (if necessary) |
| :--- | :---: | :---: | :---: | :---: |
| Expected <br> Grads in the <br> Fall Semester | Spring <br> Semester | Fall <br> Semester | Fall <br> Semester | Fall <br> Semester |
| Expected <br> Grads in the <br> Spring and <br> Summer <br> Semesters | Femester | Semester | Spring | Spring <br> Semester |
| Semester |  |  |  |  |

Students that do not successfully complete either part of the examination after a retake must re-register for the exam (ACCT 4999 or BSAD 4999) in the subsequent semester.

The Accelerated Xavier-Tulane Joint MBA Program -- This program has been in existence for several years. We are currently negotiating a new articulation agreement to reflect Tulane's revised program. Those interested in the program should consult the Chair of the Business Department.

Xavier-Tulane Joint Graduate Programs - The Department of Business has three joint programs with Tulane University's Freeman School of Business. These programs are: Master of Business Administration (MBA), Master of Accounting (MACCT), and Master of Finance (MFIN). Students are admitted to these programs while they are at Xavier and are also provided assistance with tuition. Those interested in the program should consult the Chair of the Business Department.

Xavier-Howard Joint MBA Program - Howard University School of Business has an articulation agreement with Xavier University Department of Business whereby business students are granted conditional admission to their MBA program.

The Department of Business offers the following minors for students in other departments:

Minor in Accounting -- The minor in accounting consists of 18 hours of course-work with six semester hours of accounting electives selected from 3000- or 4000-level courses. The following courses are required:
Accounting 1010-1020 $\qquad$ 6 Principles of Accounting I and II
Accounting Electives ................. $\frac{6}{18}$ $\overline{18}$

Minor in Economics -- The minor in economics consists of the following 18 hours of course-work:

| Economics 2010-2020 | 6 | Micro/Macro Principles |
| :---: | :---: | :---: |
| Economics 3110-3120 | 6 | Intermediate Micro/Macro |
| Economics 3010 | 3 | Money and Banking |
| Economics 3200 | $\frac{3}{18}$ | Managerial Economics |

Minor in Business Administration-- The minor in business administration consists of 18 hours of course-work with six semester hours of business electives selected from 3000- or 4000-level courses with the proper prerequisites or from ACCT 1020, 2010, 2020, 2030, or 2040. The following courses are required:

| Accounting 1010 | 3 | Principles of Accounting |
| :---: | :---: | :---: |
| Business Administration 2060...... | 3 | Principles of Management |
| Sales and Marketing 2050. | 3 | Principles of Marketing |
| Economics 2010 or 2020. | 3 | Prin. of Micro/Macro Economics |
| Business Electives | $\frac{6}{10}$ |  |

Minor in Sales and Marketing - The minor in sales and marketing consist of 18 hours of course-work with three hours selected from any of the following courses: SMKT 3060 - Marketing Decisions, SMKT 3350 - Marketing Research, SMKT 3550 Consumer Behavior, SMKT 3600 - Promotional Strategy. The following courses are required:

| Accounting 1010. | 3 | Principles of Accounting |
| :---: | :---: | :---: |
| Sales and Marketing 2050. | 3 | Principles of Marketing |
| Sales and Marketing 3090. | 3 | Customer Relationship Management |
| Sales and Marketing 3500. | 3 | Personal Selling |
| Sales and Marketing 3530. | 3 | Sales Force Management |
| Sales and Marketing Elective |  |  |

## COMMON FRESHMAN PROGRAM FRESHMAN YEAR

| Semester Hours |  |  |
| :---: | :---: | :---: |
| $1^{\text {st }}$ <br> Semester | $2^{\text {nd }}$ |  |
|  | Sem |  |
| 3 | 3 | Principles of Accounting I \& II |
| 3 |  | Intro. to P.C. \& Software Apps. |
| 3 | 3 | Comp \& Rhetoric/Comp \& Lit. |
| 3 | 3 | World Civilizations |
| 4 | 4 | Precalculus/Intro. Calculus |
|  | 3 | Fundamentals of Public Speaking |
| 1 |  | Activity Course or Test |
| 0 |  | A\&S Requirement |
| 0 | 0 | Freshman Orientation |
| 17 | 16 |  |

[^6]During the sophomore year departmental majors begin to study in one of two programs: Accounting or Business Administration. Students with a Business Administration major must select a concentration in Finance, Management, Management Science, or Sales and Marketing.

# PROGRAM IN ACCOUNTING 

SOPHOMORE YEAR
Semester Hours
$1^{\text {st }} \quad 2^{\text {nd }}$
Semester Semester
Accounting 2010-2020
Business Administration 2060
33 Intermediate Accounting I \& II
Economics 2010-2020
3 Principles of Management
Economics 2070-2080
$3 \quad 3$ Micro/Macro Principles
Sales and Marketing 2050
English 2010
$3 \quad 3 \quad$ Statistics I and II

Philosophy
3
Theology
3
3 Principles of Marketing World Literature I Core Requirement

Social Science**
Student Competency Exams Core Requirement
3 Core Requirement
0
0 18 University Requirement
$\overline{* *}$ Chosen from Psychology 1010, Political Science 1010, 1020 or Sociology 1010.

Accounting 3010
JUNIOR YEAR
Accounting 3070
3 Advanced Accounting
Accounting 3090
3 Elementary Cost Accounting
3
Governmental Accounting
Accounting Elective***
Business Administration 2055
3
Business Administration 3030
Business Administration 3011
Business Administration 3195
Economics 3010
Finance 3050
Foreign Language or Natural Science****

| 3 | 3 |
| :---: | :---: | Core Requirement

$\overline{* * * A c c o u n t i n g ~ m a j o r s ~ m a y ~ N O T ~ u s e ~ A C C T ~} 2030$ or 2040 for Accounting Electives.
**** Students must complete a six (6) semester hour sequence in a Foreign Language or a Natural Science.

Accounting 3030
Accounting 3040
Accounting 4000
Accounting 4999
Business Administration 4000
African American Studies
Fine Arts
Philosophy 2410
Theology
Free Electives

SENIOR YEAR
3
Tax Accounting
3 Auditing
3 Seminar
0 Senior Comprehensives
3 Business Policy Core Requirement
Core Requirement Business Ethics
Core Requirement

| 3 | 5 |
| :---: | :---: |
| 15 | 17 |


|  | Semester Hours |  |  |
| :--- | ---: | :--- | ---: |
| African American Studies | 3 | Mathematics | Semester Hours |
| Accounting* | 33 | Philosophy | 8 |
| Business Administration | 21 | Physical Education | 6 |
| Economics | 15 | Sales and Marketing | 1 |
| English | 9 | Social Science*** | 3 |
| Finance | 3 | Speech Communication | 3 |
| Fine Arts | 3 | Theology | 3 |
| History | 6 | Free Electives | 6 |
| Foreign Language or |  | Total Semester Hours | 8 |
| Natural Science** |  |  |  |

* Accounting majors may NOT use ACCT 2030 or 2040 for Accounting Electives.
** Students must complete a six (6) semester hour sequence in a Foreign Language or a Natural Science.
***Chosen from Psychology 1010, Political Science 1010, 1020 or Sociology 1010.


# PROGRAM IN BUSINESS ADMINISTRATION with concentration in FINANCE, MANAGEMENT, MANAGEMENT SCIENCE, OR SALES AND MARKETING Concentration Requirements 

FINANCE: ACCT 2010, 2020, FINC 3060, 3070, 3160, 3170 and three (3) semester hours of approved Finance electives with advisor's approval. A minimum grade of " $\underline{C}$ " must be earned in FINC 3050.

MANAGEMENT: BSAD 3115, 3120, 3140, 3150, 3190, 3780, and three (3) semester hours of approved Management electives with advisor's approval. A minimum grade of "C्व" must be earned in BSAD 2060.

MANAGEMENT SCIENCE: CPSC 1710, 1710D, 1720, 1720D, BSAD 3190, ECON 3200 and nine (9) semester hours of approved Management Science electives with advisor's approval. A minimum grade of " $\underline{C}$ " must be earned in BSAD 2055.

SALES AND MARKETING: SMKT 3060, 3350, 3500, 3550, 3700, 4000, and (3) semester hours of approved Marketing electives. A minimum grade of " $\underline{C}$ " must be earned in SMKT 2050.

Accounting 2030-2040
Business Administration 2060
Economics 2010-2020
Economics 2070-2080
Sales and Marketing 2050
English 2010
Philosophy
Theology
Social Science**
Student Competency Exams

| SOPHOMOR | Y |  |
| :---: | :---: | :---: |
| Semester |  |  |
| $1{ }^{\text {st }}$ |  |  |
| Semester | Sem |  |
| 3 | 3 | Managerial Accounting |
| 3 |  | Principles of Management |
| 3 | 3 | Micro/Macro Principles |
| 3 | 3 | Statistics I \& II |
|  | 3 | Principles of Marketing |
| 3 |  | World Literature I |
| 3 |  | Core Requirement |
|  | 3 | Core Requirement |
|  | 3 | Core Requirement |
|  | 0 | University Requirement |
| 18 | 18 |  |

[^7]Business Administration 3055
Business Administration 3035
Finance 3050
Business Administration 3011
Business Administration 3195
Economics 3010
Concentration Requirements
Foreign Language or
Natural Science***
Fine Arts
Free Elective

JUNIOR YEAR
3 Quantitative Analysis
3 Legal Aspects of Business
3 Corporate Finance
3 Organizational Communications
3 Computer Information Systems Money and Banking
3
3
3

33 Core Requirement
3 Core Requirement
*** Students must complete a six (6) semester hour sequence in a Foreign Language or a Natural Science.

Business Administration 4000
Business Administration 4999
Concentration Requirements
African American Studies
Philosophy 2410
Theology
Free Electives

SENIOR YEAR

|  | 3 | Business Policy <br> 6 |
| :---: | :---: | :--- |
| 0 | 9 | Senior Comprehensives |
| 3 |  | Core Requirement |
| 3 |  | Business Ethics |
| 3 | 3 | Core Requirement |
| 3 | 2 |  |
| 15 | 17 |  |

## Semester Hours

Semester Hours

| African American Studies | 3 | History | 6 |
| :--- | ---: | :--- | ---: |
| Accounting | 12 | Mathematics | 8 |
| Business Administration | 21 | Philosophy | 6 |
| Concentration | 21 | Physical Education | 1 |
| Economics | 15 | Sales and Marketing | 3 |
| English | 9 | Social Science | 3 |
| Finance | 3 | Speech Communication | 3 |
| Fine Arts | 3 | Theology | 6 |
| Foreign Language or |  | Free Electives | 8 |
| $\quad$ Natural Science | 6 |  | 137 |

## DEPARTMENT OF CHEMISTRY

The study of Chemistry, the science of matter and the changes it undergoes, is central to any understanding of the universe in which we live. A major in Chemistry combined with the core curriculum provides a superb liberal and professional education.

The department offers six degree programs leading to the Bachelor of Science degree. These are the Chemistry (A.C.S. Certified) program, the Chemistry (Uncertified) track, the Chemistry (Preprofessional) program, the Biochemistry program, the Environmental Chemistry program, and the Science Education (Chemistry) program. All of these programs provide the basic grounding in physical, organic, inorganic, analytical, and biochemistry necessary for any overall understanding of the subject. Additional advanced courses and courses in related subjects such as mathematics, physics, and biology are required as needed for the student's desired specialty.

The Chemistry (A.C.S. Certified) program is approved by the American Chemical Society. With its required minor in Mathematics, students are prepared for graduate studies in Chemistry and for careers as professional chemists.

The Chemistry (Uncertified) program is a more flexible program. Unlike the other Chemistry programs, it does not require the student to minor in a specific area. Rather, students must choose their own minor which must include at least 18 semester hours. The student also must follow the requirements of the University and the Department in which they wish to minor. This program also allows for more free electives than other Chemistry programs. This program is designed to allow a student the option to design a program to fit career and life goals that combine chemistry with other subjects. It is especially relevant for students with nontraditional goals and those transferring from another major who have already accumulated significant hours in another field. Students with career goals aligned with the Department's other programs usually are best served following those programs. It is very important for students following the Chemistry (Uncertified) program to plan the program in close consultation with their academic advisor.

The Environmental Chemistry program prepares students for graduate school and employment in this area, which is important for the future of our technological civilization. Its unusual dual concentration in Mathematics and Biology provides important background skills and understanding of these two disciplines.

The objective of the Chemistry (Preprofessional) program is to prepare students for success in medical, dental, and related health professional schools. The courses in the major and its required Biology minor have been carefully chosen to give the graduates of this program the greatest chance of success in their chosen professional field. Students following this course of study have the option of choosing an accelerated program if they seek early admission to professional school. Courses taken in the first year of professional school substitute for courses ordinarily taken in the senior year.

The Biochemistry program prepares students for graduate study and careers in this fast-moving and exciting area of science. This program requires a double concentration in Mathematics and Biology.

The department also offers a program in Science Education -- Chemistry jointly with the Division of Education. The objective of this program is to provide students with the proper combination of chemistry and education courses to prepare them to teach chemistry at the high school level.

In all of its courses of study, the goal of the Chemistry Department is to provide its students with knowledge of basic ideas in the field, so that they may be able to provide explanations, interpret data, and solve problems by applying these concepts. The department also provides practice in the use of the tools of research and the scientific method in chemistry, so that students can explore and organize topics, solve problems and perform investigations, and present their findings using acceptable scientific formats.

The department requires a grade of " C " or better in each chemistry course required for a degree with a major in chemistry. Also, majors are required to pass a comprehensive examination during their senior year.

Admitting Students Changing Majors/Readmitted Students -- A student having a cumulative and Chemistry GPA of 2.5 or above will be admitted into the department by the chairperson. A student having a cumulative and Chemistry GPA of 2.0 or below will not be considered for admission into the department. Any students with GPA's not in the categories listed above will have their records reviewed by the Department's Academic Standing Committee. Admission into the department for these students will require a majority vote of the committee.

Honors in Chemistry -- Students majoring in Chemistry qualify for the distinction "Honors in Chemistry" by completing their course of study with a 3.5 overall cumulative average and a 3.5 cumulative average in chemistry. Students minoring in chemistry must have a 3.5 overall average and a 3.7 average in their chemistry courses to earn this distinction. At least 18 hours of chemistry credits must be earned at Xavier.

Minor in Chemistry -- Students in other majors who wish to minor in Chemistry must complete General Chemistry (CHEM 1010/1010D/1011L and CHEM 1020/1020D/1021L), Organic Chemistry (CHEM 2210/2210D/2230L and CHEM $2220 / 2220 \mathrm{D} / 2241 \mathrm{~L}$ ), and at least two additional semester hours of Chemistry courses at the 3000 level or higher.

# PROGRAM IN CHEMISTRY (A.C.S. Certified) 

 FRESHMAN YEAR| $\substack{\text { Semester } \\ \mathbf{1}^{\text {th }} \\ \text { Hours } \\ \text { Semester }}$ | $\mathbf{2}^{\text {nd }}$ |
| :--- | :---: |
| Semester |  |

Chemistry $1010 / 1010 \mathrm{D} / 1011 \mathrm{~L}$ -
$1020 / 1020 \mathrm{D} / 1021 \mathrm{~L}$
English 1010-1020
Foreign Language
Mathematics 1030-1070
Speech Communication 1010
Free elective
Computer Competency Exam
University 1010-1020
$44 \quad$ General Chemistry I - II
33 Comp \& Rhetoric/Comp \& Lit.
$3 \quad 3 \quad$ Core Requirement
$4 \quad 4 \quad$ Precalculus/Calculus I

3

| 0 |  | $\begin{array}{l}\text { A\&S Requirement } \\ 0\end{array}$ |
| :---: | :---: | :--- |
| 17 | 17 |  |

## SOPHOMORE YEAR

Chemistry 2210/2210D/2230L 2220/2220D/2240L
African American Studies
Computer Science 1760
(or 1710/1710D)
Mathematics 2030
Mathematics 2070-2080
Physical Education
Physics 2010/2010L 2020/2020L
Student Competency Exams

Chemistry 3030/3030L
Chemistry 3210/3210L
Chemistry 4080
Chemistry 4130
Mathematics 2530
English 2010
History 1030-1040
Philosophy
Social Sciences
Theology
Free Elective(s)

Chemistry 3040
Chemistry 3040L
Chemistry 4010-4011
Chemistry 4310L
Chemistry 4240/4240L
Chemistry 4083
Chemistry 4999
Chemistry Elective
Fine Arts
Philosophy 3250
Social Sciences
Theology

## African American Studies

Chemistry 49
Computer Science 3
English 9
Fine Arts 3
Foreign Language 6
History 6
Mathematics 22

| 4 | 4 | Organic Chemistry I - II |
| :---: | :---: | :---: |
| 3 | 3 | Core Requirement |
|  |  | Introduction to Programming in C (or Computer Science I) |
|  | 3 | Linear Algebra |
| 4 | 4 | Calculus II - III |
| 1 |  | Activity Course or Test |
| 4 | 4 | General Physics I - II |
|  | 0 | University Requirement |
| 16 | 18 |  |
| JUNIOR YEAR |  |  |
| 4 | 4 | Physical Chemistry I and Lab |
|  |  | Quantitative Analysis and Lab |
|  | 0 | Introduction to Research |
|  | 3 | Introduction to Biochemistry |
| 3 |  | Differential Equations |
| 3 |  | World Literature I |
| 3 | 3 | World Civilizations |
|  |  | Core Requirement |
|  |  | Core Requirement |
| 3 |  | Core Requirement |
|  | 2 |  |
| 16 | 18 |  |
| SENIOR YEAR |  |  |
| 3 |  | Physical Chemistry II |
| 1 |  | Adv. Physical Chemistry Lab |
| 3 | 3 | Advanced Inorganic Chem. I- II |
|  | 2 | Advanced Synthesis Lab |
| 4 |  | Instrumental Analysis and Lab |
| 3 |  | Undergraduate Research |
| 0 |  | Senior Comprehensives |
|  | 3 |  |
|  | 3 | Core Requirement |
|  | 3 | Phil. of Science |
|  | 3 | Core Requirement |
| 3 |  | Core Requirement |
| 17 | 17 |  |

## SUMMARY

3
4933622

| Philosophy | 6 |
| :--- | ---: |
| Physical Education | 1 |
| Physics | 8 |
| Social Sciences | 6 |
| Speech Communication | 3 |
| Theology | 6 |
| Free Electives | 5 |
|  | 136 |

# PROGRAM IN CHEMISTRY (Uncertified) <br> FRESHMAN YEAR <br> <div class="inline-tabular"><table id="tabular" data-type="subtable">
<tbody>
<tr style="border-top: none !important; border-bottom: none !important;">
<td style="text-align: left; border-left: none !important; border-right: none !important; border-bottom: none !important; border-top: none !important; width: auto; vertical-align: middle; ">Semester Hours</td>
<td style="text-align: center; border-bottom: none !important; border-top: none !important; width: auto; vertical-align: middle; " class="_empty"></td>
</tr>
<tr style="border-top: none !important; border-bottom: none !important;">
<td style="text-align: left; border-left: none !important; border-right: none !important; border-bottom: none !important; border-top: none !important; width: auto; vertical-align: middle; ">$\mathbf{1}^{\text {st }}$</td>
<td style="text-align: center; border-bottom: none !important; border-top: none !important; width: auto; vertical-align: middle; ">$\mathbf{2}^{\text {nd }}$</td>
</tr>
<tr style="border-top: none !important; border-bottom: none !important;">
<td style="text-align: left; border-left: none !important; border-right: none !important; border-bottom: none !important; border-top: none !important; width: auto; vertical-align: middle; ">Semester</td>
<td style="text-align: center; border-bottom: none !important; border-top: none !important; width: auto; vertical-align: middle; ">Semester</td>
</tr>
</tbody>
</table>
<table-markdown style="display: none">| Semester Hours |  |
| :--- | :---: |
| $\mathbf{1}^{\text {st }}$ | $\mathbf{2}^{\text {nd }}$ |
| Semester | Semester |</table-markdown></div> 

Chemistry 1010/1010D/1011L 1020/1020D/1021L
Mathematics 1030-1070

| 4 | 4 | General Chemistry I - II |
| :---: | :---: | :--- |
| 4 | 4 | Precalculus/Calculus I |
| 3 | 3 | Comp \& Rhetoric/Comp \& Lit. |
|  | 3 | Fundamentals of Public Speaking |
| 3 | 3 | Core Requirement |
| 1 |  | Activity Course or Test |
| 0 |  | A\&S Requirement |
| 0 | 0 | Freshman Orientation |
| 15 | 17 |  |

## SOPHOMORE YEAR

Chemistry 2210/2210D/2230L 2220/2220D/2240L
African American Studies
Physics 2010/2010L -
2020/2020L
Theology
Minor or Free Electives
Student Competency Exams

Chemistry 3010 (or 3030*)
Chemistry 3030L
Chemistry 3210/3210L
Chemistry 3220L
English 2010
$4 \quad 4 \quad$ Organic Chemistry I - II
English 1010-1020
Speech Communication 1010
Foreign Language
Physical Education
Computer Competency Exam
University 1010-1020

| 4 | 4 | Organic Chemistry I - II <br> Core Requirement |
| :---: | :---: | :--- |
|  | 3 |  |
| 4 | 4 | General Physics I - II |
| 3 | 3 | Core Requirement |
| 4 | 3 |  |
| 15 | 0 | University Requirement |
| JUNIOR YEAR |  |  |

History 1030-1040
Social Sciences
Philosophy
Minor or Free Electives

Chemistry 4130/4130L
Advanced Chemistry Electives
Chemistry 4999
Fine Arts
Social Sciences
Philosophy
Minor or Free Electives
3 P. Chem. For Lf Sc. (or P Chem. I)
1 Physical Chemistry Lab
$4 \quad$ Quantitative Analysis \& Lab
2 Qualitative Organic Analysis
World Literature I
3 World Civilizations
Core Requirement
Core Requirement

|  | 3 |
| :---: | :---: |
| 4 | 4 |
| 17 | 16 |


| SENIOR YEAR |  |  |
| :---: | :---: | :--- |
| 4 |  | Intro. to Biochemistry |
| 3 | 2 | Senior Comprehensives |
| 0 | 3 | Core Requirement |
|  | 3 | Core Requirement |
| 3 |  | Core Requirement |
| 6 | 7 |  |
| 17 | 15 |  |

## SUMMARY

## Semester Hours

Semester Hours

| African American Studies | 3 | Physical Education | 1 |
| :--- | ---: | :--- | ---: |
| Chemistry | 35 | Physics | 8 |
| English | 9 | Social Sciences | 6 |
| Fine Arts | 3 | Speech Communication | 3 |
| Foreign Language | 6 | Theology | 6 |
| History | 6 | Minor | 18 |
| Mathematics | 8 | Free Electives | 10 |
| Philosophy | 6 | Total Semester Hours | 128 |

[^8]
## PROGRAM IN CHEMISTRY (PREPROFESSIONAL)

## (For students in Pre-medicine, Pre-dentistry, Pre-optometry.) (Pre-veterinary medicine students take this program with minor substitutions.)

Chemistry 1010/1010D/1011L 1020/1020D/1021L
English 1010-1020
Foreign Language
Mathematics 1030-1070
Physical Education
Speech Communication 1010
Computer Competency Exam
University 1010-1020

## FRESHMAN YEAR <br> Semester Hours <br>  <br> Semester Semester

| 4 | 4 | General Chemistry I - II |
| :---: | :---: | :--- |
| 3 | 3 | Comp \& Rhetoric/Comp \& Lit. |
| 3 | 3 | Core Requirement |
| 4 | 4 | Precalculus/Calculus I <br> 1 |
|  | 3 | Activity Course or Test <br> Fundamentals of Public Speaking <br> 0 |
| 0 | 0 | A\&S Requirement |
| Freshman Orientation |  |  |

## SOPHOMORE YEAR

| 4 | 4 | Organic Chemistry I - II |
| :--- | :--- | :--- |
|  | 3 | Core Requirement |
| 4 | 4 | General Biology I - II |
| 4 | 4 | General Physics I - II |
| 3 | 3 | Core Requirement |
|  | 0 | University Requirement |
| 15 | 18 |  |

## JUNIOR YEAR

4 P. Chem. for Life Sci. \& Lab Quant. Analysis \& Lab
2 Qual. Organic Analysis
Chemistry 3210/3210L
Chemistry 3220L
Biology Electives*
English 2010
History 1030-1040
Philosophy**
Social Sciences

Chemistry 4130/4130L
Chemistry 4140
Advanced Chemistry Elective
Chemistry 4999
Biology Electives*
Fine Arts
Philosophy**
Social Sciences
Free Electives

## Semester Hours

| African American Studies | 3 |  |  |
| :--- | ---: | :--- | ---: |
| Biology | 22 | Philosophy | 6 |
| Chemistry | $35 / 36$ | Physical Education | 1 |
| English | 9 | Physics | 8 |
| Fine Arts | 3 | Social Sciences | 6 |
| Foreign Language | 6 | Speech Communication | 3 |
| History | 6 | Theology | 6 |
| Mathematics | 8 | Free Electives | 8 |
|  |  | Total Semester Hours | $130 / 131$ |

[^9]
## ACCELERATED 3 + 1 PROGRAM IN CHEMISTRY (PREPROFESSIONAL)

This program may be followed by qualified students who would like to seek admission into a professional school at the end of their junior year. These students may substitute equivalent courses from their professional school for those required in the senior year at Xavier and be eligible to receive the B.S. degree from Xavier at the end of four years.

Chemistry 1010/1010D/1011L 1020/1020D/1021L
English 1010-1020
Foreign Language
Mathematics 1030-1070
Speech Communication 1010
Theology
Computer Competency Exam
University 1010-1020

| FRESHMAN YEAR |  |  |
| :---: | :---: | :---: |
|  |  |  |
| $1{ }^{\text {st }}$ | $2^{\text {nd }}$ |  |
| Semester | Sem |  |
| 4 | 4 | General Chemistry I - II |
| 3 | 3 | Comp \& Rhetoric/Comp \& Lit. |
| 3 | 3 | Core Requirement |
| 4 | 4 | Precalculus/Calculus I |
| 3 |  | Fundamentals of Public Speaking |
|  | 3 | Core Requirement |
| 0 |  | A\&S Requirement |
| 0 | 0 | Freshman Orientation |
| 17 | 17 |  |

## SOPHOMORE YEAR

Chemistry 2210/2210D/2230L 2220/2220D/2240L
African American Studies
Biology 1230/1230L 1240/1240L 4
Philosophy
Physical Education
Physics 2010/2010L 2020/2020L
Theology
Student Competency Exams

Chemistry 3010/3030L
Chemistry 3210/3210L
Chemistry 3220L
Advanced Chemistry Elective(s)
Chemistry 4999
Biology Electives
English 2010
4
4
Organic Chemistry I - II
3 Core Requirement
44 General Biology I - II
3 Core Requirement Activity Course or Test
1
44 General Physics I - II Core Requirement University Requirement

JUNIOR YEAR
4 P. Chem. for Life Sci. \& Lab Quant. Analysis \& Lab
$\begin{array}{lll} & 2 & \text { Qual. Organic Analysis } \\ 0 / 1 & 2 & 2000 \text { level or higher }\end{array}$
0 Senior Comprehensives
4 (One from each of groups A \& B
See regular program.)
World Literature I
Fine Arts
History 1030-1040
Philosophy

|  | 4 | P. Chem. for Life Sci. \& Lab <br> 4 |
| :---: | :---: | :--- |
| $0 / 1$ | 2 | Quant. Analysis \& Lab |
| Qual. Organic Analysis |  |  |
| 2000 level or higher |  |  |
| 4 | 0 | Senior Comprehensives |
| 3 | 4 | (One from each of groups A \& B |
| 3 |  | See regular program.) <br> World Literature I |
| 3 | 3 | Core Requirement |
| 3 |  | World Civilizations <br> Core Requirement |
| $17 / 18$ | 18 |  |


| Credits Accepted from Professional School: |  |
| :--- | :--- |
| Advanced Biology | 8 |
| Social Sciences (core req.) | 6 |

Biochemistry 7
Social Sciences (core req.)
Free electives

| SUMMARY |  |  |  |
| :---: | :---: | :---: | :---: |
| Semester Hours |  |  | Semester Hours |
| African American Studies | 3 | Philosophy | 6 |
| Biology | 24 | Physical Education | 1 |
| Chemistry | 35/36 | Physics | 8 |
| English | 9 | Social Sciences | 6 |
| Fine Arts | 3 | Speech Communication | 3 |
| Foreign Language | 6 | Theology | 6 |
| History | 6 | Free Electives | 8 |
| Mathematics | 8 | Total Semester Hours | 132/133 |

## PROGRAM IN BIOCHEMISTRY

FRESHMAN YEAR
Semester Hours
$1^{\text {st }} \quad 2^{\text {nd }}$
Semester Semester
Chemistry 1010/1010D/1011L 1020/1020D/1021L
English 1010-1020
Foreign Language
Mathematics 1030-1070
Speech Communication 1010
Physical Education
Computer Competency Exam
University 1010-1020

| 4 | 4 | General Chemistry I - II |
| :--- | :---: | :--- |
| 3 | 3 | Comp \& Rhetoric/Comp \& Lit. |
| 3 | 3 | Core Requirement |
| 4 | 4 | Precalculus/Calculus I |
|  | 3 | Fundamentals of Public Speaking |
| 1 |  | Activity Course or Test |
| 0 |  | A\&S Requirement |
| 0 | 0 | Freshman Orientation |
| 15 | 17 |  |

## SOPHOMORE YEAR

Chemistry 2210/2210D/2230L -
2220/2220D/2240L
Biology 1230/1230L 1240/1240L

| 4 | 4 | Organic Chemistry I - II |
| :---: | :---: | :--- |
| 4 | 4 | General Biology I - II |
| 3 | 3 | World Civilizations |
| 4 | 4 | General Physics I - II |
| 3 | 3 | Core Requirement |
|  | 0 | University Requirement |
| 18 | 18 |  |

JUNIOR YEAR

Chemistry 3210/3210L
Chemistry 4080
Chemistry 3030
Chemistry 4083
Chemistry 4130/4130L
African American Studies
Biology 2010/2010L
English 2010
4
0

Fine Arts
Mathematics 2070
Philosophy

Chemistry 3030L
Chemistry 3040
Chemistry 4010
Chemistry 4140
Chemistry 4150/4150L
Chemistry 4160/4160L
Chemistry 4240/4240L
Chemistry 4999
Philosophy
Social Sciences
Free Electives

Quant. Analysis \& Lab
Introduction to Research
Physical Chemistry I
Undergraduate Research
Introduction to Biochemistry
Core Requirement
Microbiology
World Literature I
3 Core Requirement
Calculus II
Core Requirement
SENIOR YEAR
Physical Chemistry Lab
Physical Chemistry II
Advanced Inorganic I Metabolism
3 Genomics and Proteomics
3 Enzymology
Instrumental Analysis
Senior Comprehensives
Core Requirement
Core Requirement

## SUMMARY

## Semester Hours

African American Studies 3 Shilosophy Semester Hours

Biology 12
Chemistry 50
English 9
Fine Arts 3
Foreign Language 6
History 6
Mathematics 12

Philosophy 6
Physical Education 1
Physics 8
Social Sciences 6
Speech Communication 3
Theology 6
Free Electives
Total Semester Hours
$\begin{array}{r}5 \\ \hline 136\end{array}$

# PROGRAM IN ENVIRONMENTAL CHEMISTRY 

FRESHMAN YEAR
$\begin{array}{lc}\text { Semester Hours } \\ \mathbf{1 1}^{\text {st }} & \mathbf{2}^{\text {nd }} \\ \text { Semester } & \text { Semester }\end{array}$
Chemistry 1010/1010D/1011L -
$1020 / 1020 \mathrm{D} / 1021 \mathrm{~L}$
African American Studies
English 1010-1020
Foreign Language
Mathematics 1030-1070
Speech Communication 1010
Computer Competency Exam
University 1010-1020

| 4 | 4 | General Chemistry I - II |
| :---: | :---: | :--- |
|  | 3 | Core Requirement |
| 3 | 3 | Comp \& Rhetoric/Comp \& Lit. |
| 3 | 3 | Core Requirement |
| 4 | 4 | Precalculus/Calculus I |
| 3 |  | Fundamentals of Public Speaking |
| 0 |  | A\&S Requirement |
| 0 | 0 | Freshman Orientation |
| 17 | 17 |  |

## SOPHOMORE YEAR

Chemistry 2210/2210D/2230L 2220/2220D/2240L

| 4 | 4 | Organic Chemistry I - II <br> 4 |
| :---: | :---: | :--- |
|  | 4 | General Biology I |
| General Biology II |  |  |
| 4 | 3 | World Literature I |
|  | 3 | Calculus II |
|  | Core Requirement |  |
| 4 | 4 | General Physics I - II |
|  | 0 | University Requirement |
| 16 | 18 |  |

Chemistry 3030/3030L
Chemistry 3210/3210L
Chemistry 3450
Environmental Biology \& Lab
Computer Science 1710 or 1760
Fine Arts
History 1030-1040
Physical Education
Social Sciences
Theology
JUNIOR YEAR

| 4 | 4 | Physical Chemistry I \& Lab <br> Quant. Analysis \& Lab |
| :---: | :---: | :--- |
| 4 | 3 | Toxicology <br> Ecology or Ecosystem Biology <br> 3 |
|  | Computer Science I or Introduction to <br> Programming in C C |  |
| 3 | 3 | Core Requirement <br> World Civilizations |
|  | 1 | Activity Course or Test <br> Core Requirement |
| 17 | 3 | Core Requirement |

SENIOR YEAR
Chemistry 3040
Chemistry 4010
Chemistry 4080
Chemistry 4093
Chemistry 4240/4240L
Chemistry 4310 L
Chemistry 4999

| 3 |  | Physical Chemistry II <br> Advanced Inorganic I <br> 0 |
| :---: | :---: | :--- |
| 4 | 3 | Introduction to Research <br> Undergraduate Environmental <br> Research <br> Instrumental Analysis \& Lab |
| 4 | 2 | Advanced Synthesis Lab <br> Senior Comprehensives |
| 0 | 3 | Environmental Philosophy |
| 3 | 3 | Core Requirement <br> Core Requirement |
| 2 | 3 |  |

[^10]
## SUMMARY

|  | Semester Hours |  | Semester Hours |
| :--- | ---: | :--- | ---: |
| African American Studies | 3 | Mathematics | 12 |
| Biology | 12 | Philosophy | 6 |
| Chemistry | 42 | Phsical Education | 1 |
| Computer Science | 3 | Physics | 8 |
| English | 9 | Social Sciences | 6 |
| Environmental Science Elective | 3 | Speech Communication | 3 |
| Fine Arts | 3 | Theology | 6 |
| Foreign Language | 6 | Free Electives | -13 |
| History | 6 | Total Semester Hours | 134 |

The Environmental Chemistry major will have a double concentration in Biology and Mathematics ( 12 semester hours each) instead of a minor (18 hours or greater) in either one. The background in Mathematics is needed for Physical Chemistry and the background in Biology is needed for the Environmental requirements.

# PROGRAM IN CHEMISTRY EDUCATION (Certification - Chemistry, Physics, and General Science) 

Chemistry Education majors should note that certification requirements are established by the Louisiana Department of Education and are subject to change. Students should consult their advisors each semester. Education majors should consult the Division of Education section in this catalog for requirements to be formally admitted into Xavier's Teacher Education Program.

Chemistry 1010/1010D/1011L 1020/1020D/1021L
Education (EDUC) 1000
English 1010-1020
History 1030-1040
Mathematics 1030-1070
Speech Communication 1010
Theology
Computer Competency Exam
University 1010-1020

Chemistry 2210/2210D/2230L2220/2220D/2240L
Education (EDUC) 2005R
Education (EDUC) 2005W
Education (EDUC) 2005 M
Education (EDUC) 2044
Biology 1230/1230L- 1240/1240L
English 2010
Philosophy
Physics 2010/2010L - 2020/2020L
Social Sciences
Student Competency Exams

FRESHMAN YEAR
Semester Hours

| $\mathbf{1}^{\text {st }}$ <br> Semester <br> 4 | $\mathbf{2}^{\text {nd }}$ <br> Semester <br> 4 | General Chemistry I \& II |
| :---: | :---: | :--- |
|  | 0 | Teacher Prep |
| 3 | 3 | Comp \& Rhet./Comp \& Lit. |
| 3 | 3 | World Civilizations |
| 4 | 4 | Pre Cal/Intro Calculus |
|  | 3 | Fundamentals of Public Speaking <br> 3 |
| 0 |  | Core Requirement <br> 0 |
| 0 | 0 | Freshman Requirement |
| 17 | 18 |  |

## SOPHOMORE YEAR

| 4 | 4 | Organic Chemistry I \& II |
| :---: | :---: | :---: |
|  | 0 | Praxis PPST Reading |
|  | 0 | Praxis PPST Writing |
|  | 0 | Praxis PPST Math |
|  | 3 | Classroom Org. \& Management |
| 4 | 4 | General Biology I \& II \& Lab |
| 3 |  | World Literature |
|  | 3 | Core Requirement |
| 4 | 4 | General Physics I \& II \& Lab |
| 3 |  | Core Requirement |
|  | 0 | University Requirement |
| 18 | 18 |  |

## JUNIOR YEAR

All majors must have passed all parts of Praxis I and should have been accepted into the Teacher Education Program before taking junior-level Education and Psychology courses.
$\left.\begin{array}{lccl}\text { Chemistry 3010 } \\ \text { Chemistry 3210/3210L } & & 3 & \begin{array}{l}\text { P. Chem. for the Life Sciences } \\ \text { Chemistry 3220L }\end{array} \\ \text { Quant. Analysis \& Lab }\end{array}\right)$
*CHEM 4083, Undergraduate Research may be substituted with permission of the course instructor.

## SUMMARY

Semester Hours Semester Hours

African American Studies 3
Biology 8
Chemistry 31
Education 33
English 9
Fine Arts 3
History . 6
Integrated Physical Science 3
Mathematics ..... 8
Philosophy ..... 6
Physical Education ..... 1
Physics ..... 8
Social Sciences ..... 3
Speech Communication ..... 3
Theology ..... 6
Free Electives ..... 3

## DEPARTMENT OF COMMUNICATIONS

The Communications Department focuses on the study of human communication through three separate, distinct, yet related disciplines: Mass Communication, Speech Communication, and Speech Pathology/Audiology. While each discipline has its own programmatic goals, the Department has established a common mission which is to:
a. increase students' proficiency in communication;
b. increase students' theoretical and practical knowledge of human communication;
c. assist students in becoming effective and ethical communicators in a diverse, global society; and
d. prepare students for success in graduate school or in their chosen career paths.

The Department of Communications offers degrees in Mass Communication, and Speech Pathology/Audiology. In addition, the department offers minors in Speech Communication as well as Speech Pathology and Mass Communication. The department houses the university newspaper, the Xavier Herald; the university television production organization, XTV; X Radio Station; the Xavier Forensics Team; the Speech and Hearing Center; and the Speech Lab.

The department offers SPCM 1010 (Fundamentals of Public Speaking), which is required of all students. It is a performance based course that requires students to present several speeches and emphasizes preparation, organization, delivery and the development of poise and confidence. Occasionally, on the recommendation of the instructor, a student having difficulty with any of the above mentioned areas may be required to attend the Speech Lab for individualized assistance.

The Speech Lab provides assistance for students who have been referred or who have failed the Sophomore Speech Competency Exam. Students preparing to take the Competency exam for the first time are encouraged to seek tutorial services through the Speech Lab.

Two departmental offerings, MSCM 2850 (Appreciation and History of Film) and SPCM 2400 (The Theatre), fulfill the Art/Music/Drama/Film (Fine Arts) requirement of the core curriculum.

The Xavier Herald, XTV, X Radio, and the Forensics Team are open to participation to all Xavier students. They provide students with opportunities to strengthen leadership, writing and speaking skills outside of the classroom. Practicum classes are available for academic credit for majors and non-majors in all areas.

The Speech and Hearing Clinic provides both evaluations and treatment for all types of communication disorders to students, faculty, staff and local residents.

Majors are required to pass a comprehensive examination and are expected to attend all departmental meetings. In order for a departmental offering to be counted for degree credit, a student must earn a grade of "C" or better. Any student who has to repeat more than two major required courses because of a grade of "D" or "F" will be advised to change his/her major.

Minor in Mass Communication -- This program consists of 18 hours of course work including:

- MSCM 1100 (Introduction to Mass Communication -- 3 sh)
- MSCM 1200 (Principles of Visual Media -- 3 sh)
- MSCM 2500 (Writing for Radio/TV -- 3 sh), OR MSCM 2222 (Writing for the Print Media -- 3 sh), and
- Nine hours of electives can be chosen from any MSCM courses.

Minor in Speech Communication -- This program consists of 18 hours of course work in Speech Communication, including the following 12 hours:

- SPCM 2180 (Advanced Public Speaking)
- SPCM 2070 (Interpersonal Communication)
- SPCM 2500 (Intercultural Communication)
- SPCM 3040 (Small Group Communication)
- Six additional semester hours may be chosen from any of the courses offered in Speech Communication, Mass Communication, and Speech Pathology, with exception of SPCM 1010 or 1011H.

Minor in Speech Pathology/Audiology -- This program consists of 19 Semester Hours in Speech Pathology/Audiology of which the following are required:

- SPTH 1320 Introduction to Communication Disorders
- SPTH 2310 Phonetics
- SPTH/BIOL 2340 Anatomy and Physiology of the Speech and Hearing Mechanism
- Nine hours must be taken from any of the other courses offered in speech pathology/audiology with the exception of the clinical practicum courses. Students minoring in SP/A are not eligible for the practicum courses.


## PROGRAM IN MASS COMMUNICATION

The mass communication major offers students a wide liberal arts background and a core of communications courses that prepare students for either graduate school or entry level positions in the media industry. Mass Communication majors follow a curriculum designed to allow students to concentrate in one of three areas of mass communication: print journalism, broadcasting or public relations.

In addition to satisfying the goals of the core curriculum, the mass communication program is designed to:

1. prepare students for entry-level positions in media industries and media-based positions in other industries and areas of employment;
2. prepare students to pursue advanced degrees in communications fields, and to qualify for entry into certain professional schools;
3. develop students who have the flexibility and adaptability to compete in a changing job market; and,
4. develop students who demonstrate responsible, ethical attitudes toward the role of media and toward media professions.

Students primarily interested in broadcasting may prepare video projects in the department's television studio for cablecast over XTV and become members of X Radio. Those who wish to pursue careers in print media can earn valuable experience on the Xavier Herald, the only student newspaper from a Historically Black College that is a member of the Associated Collegiate Press Hall of Fame. Students interested in public relations or a related career can edit, design and write for The Communicator. Students also have the opportunity to complete internships at media outlets such as a radio or television station, newspaper, magazine, or an advertising or public relations agency. Students are expected to compile a portfolio for use in their job search following graduation.

## CONCENTRATIONS IN MASS COMMUNICATION

Mass Communication majors take four Mass Communication core courses in the curriculum during their freshman and sophomore years. At the end of the spring semester in the sophomore year, each major must declare an area of concentration: print, broadcasting or public relations. Students will follow the program for their area of concentration until they complete the major.

# PROGRAM IN MASS COMMUNICATION BROADCASTING 

FRESHMAN YEAR
Semester Hours
$1^{\text {st }} \quad 2^{\text {nd }}$
Semester Semester
Mass Communication 1100
Mass Communication 1200
Speech Communication 1010
English 1010-1020
History 1030-1040
Mathematics 1010
Social Science
Natural Science 3
3 Intro. to Mass Communication
3 Principles of Visual Media
3 Fundamentals of Public Speaking
33 Comp \& Rhetoric/Comp \& Lit.
33 World Civilizations
3 Modern Math

Physical Education 1
Computer Competency Exam
University 1010-1020
3 Core Requirement
3 Core Requirement
1

| 0 |  | A\&S Requirement <br> 0 |
| :---: | :---: | :---: |
| 16 | 15 |  |
| Freshman Orientation |  |  |

## SOPHOMORE YEAR

Mass Communication 2222
Mass Communication 2500
Speech Communication Elective
3 Writing for Print Media
3 Writing for Radio/TV
3 Speech Communication Elective
English 2010
3
Fine Arts World Literature

Foreign Language
Philosophy
3

> Core Requirement

33 Core Requirement
Theology
3
Core Requirement
Minor
Student Competency Exams

|  | 3 |
| :---: | :---: |
|  | 0 |
| 18 | 15 |

University Requirement

JUNIOR YEAR

3
Fundamentals of TV Production
3 Fundamentals Of Audio Prod. or Announcing
3 TV News Gthrng \& Rptng Intro. to Mass Comm. Research
Small Group Communication
Core Requirement
3 Core Requirement
3 Core Requirement
6

|  | 3 |
| :---: | :---: |
| 15 | 18 |

Mass Communication 3500
Mass Communication 4430
Mass Communication 4010 or 4020
Mass Communication**
Mass Communication Elective*
Mass Communication 4999
Philosophy
Minor
Free Electives

## SENIOR YEAR

| 3 | 3 | Media Criticism <br> Media Law and Ethics <br> Producing TV Newscasts or <br> TV Program Production |
| :---: | :---: | :--- |
| 3 | 3 | Internship or Practicum** |
| 3 | 0 | See Below* <br> Senior Comprehensives <br> Core Requirement |
| 3 | 6 |  |
| 3 | 2 |  |
| 15 | 17 |  |

* To complete this requirement, students may choose one of the following: MSCM 2580, MSCM 3101, MSCM 3650, MSCM 3831, MSCM 4131, 4132, 4133, MSCM 4400, or MSCM 4520.
**To complete this requirement, students may choose one of the following: Internship (MSCM 4410), 3 semester hours of P.R. Practicum (MSCM 2007, 3007, 4007), 3 semester hours of Newspaper Practicum (MSCM 2008, 3008, 4008), or 3 semester hours of Broadcast Practicum (MSCM 2009, 3009, 4009).


## SUMMARY <br> Semester Hours

African American Studies 3
English 9
Fine Arts 3
Foreign Language 6
History 6
Mass Communication 39
Mathematics 3
Natural Sciences 6

## Semester Hours

Philosophy 6
Physical Education 1
Social Sciences 6
Speech Communication 9
Theology 6
Free Electives 8
Minor $\quad 18$
Total Semester Hours $\quad \overline{129}$

## PROGRAM IN MASS COMMUNICATION - PRINT

 FRESHMAN YEAR$\underset{\mathbf{1}^{\text {st }}}{\text { Semester Hours }} \mathbf{2}^{\text {nd }}$

Mass Communication 1100
Mass Communication 1200
Speech Communication 1010
English 1010-1020
History 1030-1040
Semester Semester

Mathematics 1010
3 Intro. to Mass Communication
3 Principles of Visual Media
3
3
3
Social Science
Natural Science
Fundamentals of Public Speaking
3 Comp \& Rhetoric/Comp \& Lit.
3 World Civilizations
3 Modern Math
3 Core Requirement
Core Requirement
Physical Education Activity Course or Test A\&S Requirement
Computer Competency Exam
University 1010-1020

## SOPHOMORE YEAR

Mass Communication 2222
Mass Communication 2500
Speech Communication Elective
English 2010
Fine Arts
Foreign Language
Philosophy
Theology
Minor
Student Competency Exams

Mass Communication 3150
Mass Communication 3211 or 3400
Mass Communication 3250
Mass Communication 3600
Speech Communication 3040
African American Studies
Natural Science
Social Sciences
Minor
Free electives

Mass Communication 3500
Mass Communication 4430
Mass Communication 4000
Mass Communication**
Mass Communication Elective*
Mass Communication 4999
Philosophy
Minor
Free Electives

3 Writing for Print Media
3 Writing for Radio/TV Speech Communication Elective World Literature Core Requirement
3 Core Requirement
3 Core Requirement
3 Core Requirement
3


University Requirement

## JUNIOR YEAR

3 News Editing
3 Editorial Pract. or Desktop Pub.
3 News Reporting
3 Intro. to Mass Comm. Research
3 Small Group Communication
3 Core Requirement
Core Requirement
3
3 Core Requirement
3
3
$\begin{array}{ll}18 & 15\end{array}$
SENIOR YEAR
Media Criticism
Media Law and Ethics
Feature Writing
Internship or Practicum**
See Below*
Senior Comprehensives
Core Requirement

| 3 |  | Media Criticism <br> Media Law and Ethics <br> 3 |
| :---: | :---: | :--- |
| 3 | Feature Writing <br> Internship or Practicum** |  |
| 3 | 0 | See Below* <br> Senior Comprehensives <br> Core Requirement |
| 3 | 6 |  |
| 3 | 2 |  |
| 15 | 17 |  |

[^11]
## PROGRAM IN MASS COMMUNICATION - PUBLIC

RELATIONS
FRESHMAN YEAR

| $\substack{\text { Semester } \\ \mathbf{1}^{\text {th }} \\ \text { Hours } \\ \text { 2nd }}$ |  |
| :--- | :---: |
| Semester | $\mathbf{2}^{\text {nd }}$ |
| Semester |  |

Mass Communication 1100
Mass Communication 1200
Speech Communication 1010
English 1010-1020
History 1030-1040
Mathematics 1010
Social Science
Natural Science
Physical Education
Computer Competency Exam
University 1010-1020

Mass Communication 2222
Mass Communication 2500
Speech Communication Elective
English 2010
Fine Arts
Foreign Language
Philosophy
Theology
Minor
Student Competency Exams

Mass Communication 2030
Mass Communication 3150, 3400, or 4200
Mass Communication 3060
Mass Communication 3600
Speech Communication 3040
African American Studies
Natural Science
Social Sciences
Minor
Free electives

## SOPHOMORE YEAR

3 Writing for Print Media
3 Writing for Radio/TV
3 Speech Communication Elective
3 World Literature
3 Core Requirement
33 Core Requirement
$3-3$
3 Core Requirement

|  | 3 |
| :---: | :---: |
|  | 0 |
| 18 | 15 |

University Requirement

3
3
JUNIOR YEAR
3
Principles of Public Relations
3 News Editing, Desktop Pub., or Int.
Comm. For Public Relations
3 Writing for Public Relations Intro. to Mass Comm. Research Small Group Communication
Core Requirement
Core Requirement
Core Requirement
6


Mass Communication 3500
Mass Communication 4430
Mass Communication 4060
Mass Communication**
Mass Communication Elective*
Mass Communication 4999
Philosophy
Minor
Free Electives

## SENIOR YEAR

3

3

|  | 3 |
| :---: | :---: |
|  | 0 |
| 3 |  |
| 3 | 6 |
| 3 | 2 |
| 15 | 17 |

Media Criticism
Media Law and Ethics Public Relations Campaigns
Internship or Practicum**
See Below*
Senior Comprehensives
Core Requirement

* To complete this requirement, students may choose one of the following: MSCM 2580, MSCM 3101, MSCM 3650, MSCM 3831, MSCM 4131, 4132, 4133, MSCM 4400, or MSCM 4520.
**To complete this requirement, students may choose one of the following: Internship (MSCM 4410), 3 semester hours of P.R. Practicum (MSCM 2007, 3007, 4007), 3 semester hours of Newspaper Practicum (MSCM 2008, 3008, 4008), or 3 semester hours of Broadcast Practicum (MSCM 2009, 3009, 4009).


## SUMMARY

## Semester Hours

African American Studies 3
English 9
Fine Arts 3
Foreign Language 6
History 6
Mass Communication 39
Mathematics 3
Natural Sciences 6

Philosophy $\quad$ Semester Hours 6
Physical Education 1
Social Sciences 6
Speech Communication 9
Theology 6
Free Electives 8
Minor 18
Total Semester Hours $\quad \overline{129}$

## PROGRAM IN SPEECH PATHOLOGY

Speech pathology is the study of human communication -- its normal development, its disorders, and strategies for prevention. The speech-language pathologist, by evaluating the speech and language of children and adults, determines whether communication problems exist and decides the best method of treatment. Audiology is the study of normal and defective hearing. The audiologist strives to prevent hearing loss, aids in diagnosing problems, and recommends habilitation and rehabilitation techniques that range from the use of hearing aids to lip reading and/or manual communication.

In addition to satisfying the goals of the Core Curriculum, this program is designed to:

1. provide adequate preparation for entry into a graduate program in speech-language pathology or audiology;
2. provide students with an experiential learning situation (observations and clinical practicum) to facilitate transference of their theoretical knowledge into the practical situation; and
3. instill values of professionalism and awareness of providing service to others.

Xavier University offers a Bachelor of Science degree in Speech Pathology/ Audiology. Students should be aware that a masters degree is required for certification by the American Speech-Language-Hearing Association and for licensure in most states.

# PROGRAM IN SPEECH PATHOLOGY 

FRESHMAN YEAR

|  |
| :---: |

Speech Communication 1010
Biology 1030/1030L
English 1010-1020
Foreign Language
History 1030-1040
Mathematics 1010-1020
Physical Education
Computer Competency Exam
University 1010-1020

Speech Pathology 1320
Speech Pathology 2340
Speech Pathology 2310
Speech Pathology 2500
Speech Pathology 2730
African American Studies
English 2010
Fine Arts
Philosophy
Theology
Minor
Student Competency Exams

Speech Pathology 2760
Speech Pathology 2920
Speech Pathology 3335
Speech Pathology 3525
Speech Pathology 4010
Philosophy
Social Sciences
Theology
Minor
Free Electives

Speech Pathology 3340
Speech Pathology 3560
Speech Pathology 4320
Speech Pathology 4601P
Speech Pathology 4601A
Speech Pathology 4602P or 4602A
Speech Pathology 4999
Free electives
Minor

## SOPHOMORE YEAR

3
4
3 Phonetics
3 Speech \& Hearing Science
3 Normal Language Development
Core Requirement
World Literature I
Core Requirement
Core Requirement
Core Requirement
3
$0 \quad$ University Requirement

JUNIOR YEAR

| 3 |  | MR |
| :---: | :---: | :---: |
| 3 |  | A |
| 3 | 3 | H |
|  | 3 | L |
|  | 3 | C |
| 3 | 3 | C |
| 3 | 3 | C |
| 3 | 3 |  |
| 18 | 18 |  |

SENIOR YEAR

| 3 | 3 | Aural Rehabilitation <br> Fluency Disorders <br> Voice Disorders <br> Clinical Practicum in Speech Path. <br> 2 |
| :--- | :--- | :--- |
| 1 | 2 | Advanced Clinical Practicum <br> Clinical Practicum in Speech Path. or <br> Clinical Pract. in Audiology |
| 2 | 0 | Senior Comprehensives |
| 6 | 3 |  |
| 14 | 14 |  |


|  | SUMMMARY |  |  |
| :--- | ---: | :--- | ---: |
|  | Semester Hours |  | Semester Hours |
| African American Studies | 3 | Physical Education | 1 |
| Biology | 3 | Social Sciences | 6 |
| English | 9 | Speech Communication | 3 |
| Fine Arts | 3 | Speech Pathology | 45 |
| Foreign Language | 6 | Theology | 6 |
| History | 6 | Free Electives | 8 |
| Mathematics | 6 | Minor | 18 |
| Philosophy | 6 | Total Semester Hours | 129 |

## DEPARTMENT OF COMPUTER SCIENCES AND COMPUTER ENGINEERING

The computing disciplines focus on the design and use of computer systems and the scientific foundation that is the basis for such use.

The Department of Computer Sciences and Computer Engineering offers three majors:

Computer Science<br>Computer Information Systems<br>Computer Engineering

The Computer Science major includes 44 semester hours of required computer science courses, 6 semester hours of computer science electives, and 20 semester hours of mathematics courses, of which 3 hours is statistics. The curriculum for Computer Science is based on the recommendations of the Association for Computing Machinery (ACM).

The Computer Information Systems major contains 21 semester hours of computer information systems, 23 semester hours of computer science and 24 semester hours of business courses (accounting, business administration, economics, sales and marketing). The curriculum for this major is based on the recommendations of the ACM and the Association of Information Technology Professionals (AITP).

The Computer Engineering major includes 41 semester hours of required computer engineering courses, 6 semester hours of computer engineering electives, 12 semester hours of computer science courses, 21 semester hours of mathematics, 12 semester hours of physics, and 3 semester hours of statistics. The curriculum for Computer Engineering is based on the recommendations of the Accreditation Board for Engineering Technology (ABET).

In order for a computer science, computer information systems, or computer engineering course to be counted for degree credit in any major in the Department, a student must earn a "C" or better. In addition, for Computer Science majors, in order for a mathematics or statistics course to be counted for degree credit, a student must earn a "C" or better. For Computer Information Systems majors, in order for any statistics course or any course taken in the Business Department to be counted for degree credit, a student must earn a " C " or better. For Computer Engineering majors, in order for a mathematics, statistics, or physics course to be counted for degree credit, a student must earn a "C" or better.

Majors in the Computer Sciences and Computer Engineering Department can enroll in a maximum of seven hours of computing sciences (computer science, computer engineering, or computer information systems) coursework outside of Xavier. No more than four of these seven hours can be at the 3000 or 4000-level.

All majors must attend all departmental meetings and take senior comprehensives that focus on the fundamentals of the various computing fields. Specific policies pertaining to the senior comprehensives can be obtained from the Department.

Minor in Computer Science -- Students who are interested in a minor in Computer Science are required to complete 19 semester hours of computer science. These are: CPSC 1710, 1710D, 1720, 1720D, 2110, 2110L, 2120, 2730, and 2740.

Honors in Computer Science -- Each spring the department will select a limited number of students for possible graduation "with Honors in Computer Science." Computer Science majors who achieve this distinction will have maintained at least a 3.50 grade point average in all Computer Science, Computer Engineering, Computer Information Systems, and Mathematics courses and at least a 3.30 grade point average overall, WITH NO GRADE OF "C" OR LOWER IN ANY COMPUTER SCIENCE, COMPUTER ENGINEERING, COMPUTER INFORMATION SYSTEMS, OR MATHEMATICS COURSE, throughout their undergraduate careers. Computer Science majors who satisfy these minimum requirements and who wish to be considered for the program are asked to apply by letter early in the spring semester of the Junior year. Students will be notified of the outcome of their application in writing. In addition to the above grade point average requirements, all students who receive the distinction of Honors in Computer Science must also publish or present a research paper at a refereed, professional conference. STUDENTS WILL BE DROPPED FROM THE PROGRAM IF THEY FAIL TO CONTINUE TO MEET THE ACADEMIC REQUIREMENTS GIVEN ABOVE.

Honors in Computer Information Systems -- Each spring the department will select a limited number of students for possible graduation "with Honors in Computer Information Systems." Computer Information Systems majors who achieve this distinction will have maintained at least a 3.50 grade point average in all Computer Information Systems, Computer Science, Computer Engineering courses, and courses offered by the Business Department, and at least a 3.30 grade point average overall, WITH NO GRADE OF "C" OR LOWER IN ANY COMPUTER INFORMATION SYSTEMS, COMPUTER SCIENCE, COMPUTER ENGINEERING, OR COURSE OFFERED BY THE BUSINESS DEPARTMENT, throughout their undergraduate careers. Computer Information Systems majors who satisfy these minimum requirements and who wish to be considered for the program are asked to apply by letter early in the spring semester of the Junior year. Students will be notified of the outcome of their application in writing. In addition to the above grade point average requirements, all students who receive the distinction of Honors in Computer Information Systems must also publish or present a research paper at a refereed, professional conference. STUDENTS WILL BE DROPPED FROM THE PROGRAM IF THEY FAIL TO CONTINUE TO MEET THE ACADEMIC REQUIREMENTS GIVEN ABOVE.

Honors in Computer Engineering -- Each spring the department will select a limited number of students for possible graduation "with Honors in Computer Engineering." Computer Engineering majors who achieve this distinction will have maintained at least a 3.50 grade point average in all Computer Engineering, Computer Science, Computer Information Systems, and Mathematics courses, and at least a 3.30 grade point average overall, WITH NO GRADE OF "C" OR LOWER IN ANY COMPUTER ENGINEERING, COMPUTER SCIENCE, COMPUTER INFORMATION SYSTEMS, OR MATHEMATICS COURSE, throughout their undergraduate careers. Computer Engineering majors who satisfy these minimum requirements and who wish to be considered for the program are asked to apply by letter early in the spring semester of the Junior year. Students will be notified of the outcome of their application in writing. In addition to the above grade point average requirements, all students who receive the distinction of Honors in Computer Engineering must also publish or present a research paper at a refereed, professional conference. STUDENTS WILL BE DROPPED FROM THE PROGRAM IF THEY FAIL TO CONTINUE TO MEET THE ACADEMIC REQUIREMENTS GIVEN ABOVE.

# PROGRAM IN COMPUTER SCIENCE <br> FRESHMAN YEAR <br> $\begin{array}{lc}\text { Semester Hours } \\ \mathbf{1 1}^{\text {st }} & \mathbf{2}^{\text {nd }} \\ \text { Semester } & \text { Semester }\end{array}$ 

Computer Science 1710/1710D -
1720/1720D
Computer Science 2110/2110L

| $3 / 0$ | $3 / 0$ | Computer Science I \& II <br>  <br> 3 |
| :---: | :---: | :--- |
| 4 | 3 | Logic Design and Lab |
| Comp \& Rhetoric/Comp \& Lit. |  |  |
|  | 4 | Intro. Calculus- Calculus II |
| 3 | 3 | Discrete Mathematics I <br> 3 |
|  |  | Logic |
| 0 |  | Fundamentals of Speech |
| 0 | 0 | A\&S Requirement |
| Freshmen Orientation |  |  |

## SOPHOMORE YEAR

Computer Science 2120
Computer Science 2730-2740
African American Studies
English 2010
Foreign Language
History 1030
Mathematics 1020

## 3

Intro. to Computer Organization
English 1010-1020
Mathematics 1070-2070
$4 \quad 4 \quad$ Intro. Calculus- Calculus II
Mathematics 2550
Logic
Philosophy 2040
Fundamentals of Speech
Speech Communication 1010
Computer Competency Exam
University 1010-1020

Mathematics 2560
Data Structures/Software Dev.
3 Core Requirement
3 World Literature I
3 Core Requirement
3 World Civilizations
Basic Statistics
Discrete Mathematics II
Social Sciences
Core Requirement
Free Electives
Student Competency Exams

Computer Science 3060
Computer Science 3140
Computer Science 3710
Computer Science 3130
Computer Science 3240
Computer Science 3240L
History 1040
Mathematics 2030
Natural Science*
Philosophy
Physical Education
Social Sciences

Computer Science 4100
Computer Science 4304
Computer Science 4800-4805
Computer Science Elective**
Computer Science 4999
Computer Science 4999P
Fine Arts
Natural Science*
Theology
Free Electives

| SENIOR YEAR |  |  |
| :---: | :---: | :--- |
| 3 |  | Automata Theory \& Lang. Trans. |
| 3 |  | Artificial Intelligence |
| 1 | 2 | Capstone Project |
| 3 | 3 |  |
| 0 |  | Senior Comprehensives |
| 0 |  | Sr. Comprehensives Programming |
|  | 3 | Core Requirement |
| 4 | 4 |  |
| 3 | 3 | Core Requirement |
|  | 3 |  |
| 17 | 18 |  |

[^12]African American Studies 3
Computer Science ..... 50
English ..... 9
Fine Arts ..... 3
Foreign Language ..... 6
History ..... 6
Mathematics ..... 20

## Semester Hours

Natural Science ..... 12
Philosophy ..... 6
Physical Education ..... 1
Social Sciences ..... 6
Speech Communication ..... 3
Theology ..... 6
Free Electives
Total Semester Hours ..... 6

## PROGRAM IN COMPUTER INFORMATION SYSTEMS

FRESHMAN YEAR
Semester Hours

| $1^{\text {st }}$ | $2^{2^{\text {nd }}}$ |
| :---: | :---: |
| Semester |  |

3 Personal Productivity with IS Tech
Computer Information Systems 1700
Computer Science 1710/1710D -
1720/1720D
Computer Science 2110/2110L
English 1010-1020
Mathematics 1070-2550
Philosophy 2040
Physical Education
Speech Communication 1010
Computer Competency Exam
University 1010-1020
3/0 Computer Science I \& II
4 Logic Design and Lab
3 Comp \& Rhetoric/Comp \& Lit.
3 Intro. Calculus/Discrete Math. I Logic
1 Core Requirement
Fundamentals of Speech
A\&S Requirement Freshman Orientation

SOPHOMORE YEAR
Computer Information Systems 1800
Computer Information Systems 2740
Computer Information Systems 2800
Computer Science 2730
Computer Science 2120
Accounting 1010-1020
Business Administration 2060
English 2010
History 1030-1040
Statistics 2010
Student Competency Exams

Computer Information Systems 3710
Computer Science 3140
Computer Science 3240
Computer Science 3240L
African American Studies
Business Administration 3035
Economics 2010-2020
Finance 3050
Sales and Marketing 2050
Free Electives

Fundamentals of Information Systems Software Development
3 Inform. Systems Theory \& Practice
3 Data Structures
3 Intro. to Computer Organization
3 Principles of Accounting
3 Principles of Management
World Literature I
3 World Civilizations
Statistical Methods I University Requirement

## JUNIOR YEAR

| 3 |  | Database <br> Operating Systems |
| :--- | :--- | :--- |
|  | 3 | Networks |
|  | 1 | Networks Lab |
| 3 |  | Core Requirement |
| 3 |  | Legal Aspects of Business |
| 3 | 3 | Micro Economics/Macro Econ. |
|  | 3 | Corporate Finance |
| 3 | 3 | Principles of Marketing |
| 3 | 3 |  |
| 18 | 16 |  |

Computer Information Systems 4700
Computer Information Sys. 4800-4805
Computer Information Systems 4999
Computer Information Sys. 4999P
Fine Arts
Foreign Language
Natural Science
Philosophy 2410
Theology
Social Sciences

SENIOR YEAR

| 3 |  | Phys. Des. In Emerging Env. <br> 1 |
| :--- | :---: | :--- |
| 0 | 2 | Capstone Project <br> Senior Comprehensives <br> 0 |
|  | 3 | Sr. Comprehensives Programming <br> Core Requirement |
| 3 | 3 | Core Requirement |
| 3 | 3 | Core Requirement |
| 3 |  | Business Ethics <br> 3 |
|  | 3 | Core Requirement |
| Core Requirement |  |  |

SUMMARY

|  | Semester Hours |  | Semester Hours |
| :--- | ---: | :--- | ---: |
| Accounting | 6 | Marketing | 3 |
| African American Studies | 3 | Mathematics | 7 |
| Business Administration | 6 | Natural Science | 6 |
| Computer Information Systems | 21 | Philosophy | 6 |
| Computer Science | 23 | Physical Education | 1 |
| Economics | 6 | Social Science | 3 |
| English | 9 | Speech | 3 |
| Finance | 3 | Statistics | 3 |
| Fine Arts | 3 | Theology | 6 |
| Foreign Language | 6 | Free Electives | 6 |
| History | 6 | Total Semester Hours | 6 |
|  |  |  | 136 |

# PROGRAM IN COMPUTER ENGINEERING 

 FRESHMAN YEARSemester Hours
$1^{\text {st }} \quad 2^{\text {nd }}$
Semester Semester
Computer Engineering 1000
Computer Engineering 2110/2110L
Computer Science 1710/1710D -
1720/1720D
Mathematics 1070-2070
Physics 1121-2111
English 1010-1020
University 1010-1020

## SOPHOMORE YEAR

3 Circuits
Computer Engineering 2210
Computer Engineering 2220L
1 Circuits Lab
Computer Science 2120
Computer Science 2730
History 1030 or 1040
Mathematics 2080-2530
Mathematics 2030
Physical Education
Physics 2121
3 Intro. to Computer Organization Data Structures
3 World Civilizations
3 Calculus III/Differential Eqns.
3 Linear Algebra

Speech 1010
Core Requirement
Physics III
Chemistry 1010/1010D
Student Competency Exams

Fundamentals of Speech
3 General Chemistry I and Drill
$0 \quad$ University Requirement

Computer Engineering 3140
Computer Engineering 3150
Computer Engineering 3210
Computer Engineering 3210L
Computer Engineering 3220
Computer Engineering 3240
Computer Engineering 3240L
Computer Engineering 3130
Computer Engineering 3310
Mathematics 2550
Philosophy 2040
Statistics 3051
Free Electives

Computer Engineering 4320
Computer Engineering 4110
Computer Engineering 4800-4805
Computer Engineering Elective*
Computer Engineering 4999
Computer Engineering 4999P
African American Studies
Economics 2010 or 2020
Fine Arts
Philosophy
Theology
Free Electives

## JUNIOR YEAR

$\begin{array}{ll}3 & \text { Operating Systems } \\ 3 & \text { Embedded Systems }\end{array}$
3 Electronics
1
Computer Engineering Lab
Digital Electronics
Networks
Networks Lab
Architecture
Signals \& Systems
Discrete Mathematics I
Logic
Probability \& Statistics

## SENIOR YEAR

3
3
$1 \quad 2$
33
0
0
3

|  | 3 |  |
| :---: | :---: | :---: |
|  | 3 |  |
|  | 3 |  |
| 3 | 3 |  |
| 1 |  |  |
| 17 | 17 |  |

Digital Signal Processing Hardware Systems Implementation Capstone Project

Senior Comprehensives
Sr. Comprehensives Programming Core Requirement Micro or Macro Economics Core Requirement Core Requirement Core Requirement
*These courses must be a 3000-level or above CPEN courses.

|  | SUMMARY |  |  |
| :--- | ---: | :--- | ---: |
|  | Semester Hours |  | Semester Hours |
| African American Studies | 3 | Mathematics | 21 |
| Chemistry | 3 | Philosophy | 6 |
| Computer Engineering | 41 | Physical Education | 1 |
| Computer Engineering Electives | 6 | Physics | 12 |
| Computer Science | 12 | Speech | 3 |
| Economics | 3 | Statistics | 3 |
| English | 6 | Theology | 6 |
| Fine Arts | 3 | Free Electives | 3 |
| History | 3 | Total Semester Hours | 135 |

## DIVISION OF EDUCATION

## Education majors should note that certification requirements are established by the Louisiana Department of Education and are subject to change. Students should consult their advisors each semester.

Since 1915, when Xavier University was founded, it has accepted the sacred privilege and social responsibility of preparing well-qualified teachers for public and private elementary and secondary schools. The University continues to train future teachers who possess a deep sense of social and civic responsibility, who are liberally educated and who possess the philosophical principles, and the professional character essential to their vocation and career. The goal of the Division of Education is the development of reflective professionals who are collaborative change agents toward a more just and humane society.

The Division infuses all curricula with understandings that recognize and develop the gifts and rich heritage each person brings to the respective program. The Division identifies six concepts: spirituality, culture, professionalism, knowledge, competencies, and technology. These constructs are continuously related to one another and to the goals of the Division.

Multiple assessments are used in the Division to monitor candidate performance and improve operations and programs. The unit systematically collects and analyzes data at specific checkpoints through a comprehensive web-based tool known as PASSPORT, Performance Assessment Support System. There are four portals used at critical points in the tenure of the candidate in the program, with each portal consisting of criteria that the candidate must fulfill successfully to exit through the checkpoint. Formative and summative evaluation data are reviewed at each checkpoint to determine the candidate's progress. The PASS-PORT portal procedure gives the Division opportunities to continuously examine the validity and utility of data produced through these assessments.

The Division of Education received reaccreditation by the National Council for Accreditation of Teacher Education (NCATE) in October 2003. This signifies that the graduates have been prepared according to accepted national standards of excellence and that the programs meet high standards in areas including program design, delivery, and quality of faculty. Xavier was the first private college in Louisiana to receive this prestigious rating.

Curricula and Educational Outcomes -- The Division of Education offers the Bachelor of Arts and Bachelor of Science degrees leading to Louisiana teacher certification in grade levels: PK-3 (early childhood), 1-5 (elementary), and 4-8 (middle school), as well as, in the areas of Special Education-Mild Moderate, Art, Biology, Chemistry, English/English Education, Foreign Language (French and Spanish), Health and Physical Education, Social Sciences (Social Studies), Mathematics, and Music.

The requirements of the Education programs consist of courses in general education, knowledge of the learner and the learning environment, methodology in teaching, and student teaching. Monitored and sequenced field experiences provide opportunities for the candidate to apply the theoretical framework in various classroom settings.

The program in Early Childhood Education (PK-3) prepares teacher candidates to apply professional theories and developmentally appropriate strategies and techniques required for the instruction of nursery, kindergarten, and lower elementary schoolaged children. Courses such as child growth and development methods and materials of early childhood education are designed to prepare teacher candidates to be competent professionals who can fully develop the cognitive, psycho-social, motor, and academic capabilities of young children.

The program in Elementary Education (grades 1-5) prepares teacher candidates to understand and meet the needs of the elementary students. Courses such as methods of teaching elementary school, classroom management, and child psychology are designed to prepare teacher candidates to be competent professionals who possess the professional and technical knowledge and skills to assess, plan, develop, implement and evaluate an elementary curriculum that promotes student learning.

The program in Middle School Education (grades 4-8) prepares teacher candidates to understand and meet the needs of the young adolescent. Courses such as adolescent psychology and middle school teaching strategies are designed to prepare these teacher candidates to become competent professionals who can guide and facilitate classroom interactions to meet the learning needs of this diverse population of students.

The Special Education Generic-Mild/Moderate degree program prepares prospective teachers to work professionally and humanely with children who have been identified as having mild/moderate behavioral or academic exceptionalities. The specialized courses in education and special education provide pre-service teachers with the required general and specific knowledge, as well as instructional techniques, necessary for application in a diagnostic, clinical teaching situation.

The program in Health and Physical Education prepares prospective Health and Physical Education teachers to integrate the educational domains: cognitive, affective and psychomotor. This is accomplished through the use of teaching skills, techniques, strategies and competencies required for instruction in all aspects of health and physical education. The future teacher will acquire the necessary knowledge and attitudes for planning a program in developing fundamental skills in games, sports, aquatics, dance, fitness and wellness. Students learn how to provide a comprehensive, sequential, continuous program for Kindergarten through twelfth grade, based on sound educational principles, exercise physiology and teaching methodology. Upon successful completion of this program, students are Louisiana certified as health/physical education teachers in grades Kindergarten through twelve.

Standards and Procedures for Admission to and Retention in the Teacher Education Program - Upon admission to the University, all students declaring a major in the Division of Education must register with the chairperson. Admission to the University or registration with the Division as a major does not constitute acceptance into the Teacher Education Program. Students who transfer from other departments must have a minimum cumulative GPA of 2.3 and must have a grade of "C" or better in each course taken.

## During the second semester of the sophomore year, every student seeking formal admission into the Teacher Education Program must complete the following criteria:

## Criteria for Admission to the Teacher Education Program (TEP) - Portal II

1. Achievement of at least a 2.5 cumulative average in all coursework.
2. Achievement of at least a " C " grade in every course listed in the student's program of study.
3. Completion of all developmental work.
4. Demonstrated proficiency on English, Mathematics, Speech Communication, Critical Thinking, Reading and Writing competency examinations.
5. Achievement of passing scores on all parts of Praxis I.
6. Membership in a professional organization specific to education (e.g., LAE/SP, LAHPERD, CEC/SP).
7. Achievement of a satisfactory rating on an interview with the Teacher Education Admissions Committee.
8. Satisfactory review of a professional development portfolio.

Students who are not initially admitted to the TEP may reapply for admission the next semester. However, applications from students who have been denied admission to the program twice will not be accepted.

Also, students who do not get admitted into the TEP may not take junior- and senior-level education courses according to Louisiana's legal regulations for education majors.

## Criteria for Retention in the Teacher Education Program

Students are eligible to continue their programs provided they meet the following strictly enforced criteria:

1. Maintain a minimum 2.5 cumulative average for all coursework.
2. Receive grades of " C " or above in education courses or specialized academic courses required by the university and the state for teacher certification; and,
3. Are not placed on academic probation for two consecutive terms.

## Student Teaching--Standards and Admission Procedures - Portal III

## Eligibility Requirements for Student Teaching

1. Formal acceptance into the Teacher Education Program.
2. No grades below " C " in any core, professional, specialized academic (or content course for secondary majors), or other courses required by the University program of study or Louisiana Department of Education for graduation or teacher certification.
3. Completion of a minimum of 95 semester hours (senior standing) in a prescribed program of study with a cumulative average of 2.5 in all course work and 2.5 in courses in the major teaching field and professional education.
4. Successful completion of all courses as stated in the student's program of study.
5. Demonstrated proficiency on English, Mathematics, Speech Communication, Critical Thinking, Reading and Writing competency examinations.
6. Passing scores on Praxis II: Principles of Learning and Teaching.

## Registration for Student Teaching

The applicant should file an application with the Coordinator of Student Teaching after securing proper clearance from his or her departmental advisor(s) and the registrar's office. The deadline for submission of this application is the preregistration period one full semester prior to the semester in which the student plans to do student teaching.

## Teacher Education Graduation and Teacher Certification Policies - Portal IV

Education majors in PK-3, 1-5, 4-8, Special Education, and selected secondary majors must successfully pass all required parts of the Praxis I and Praxis II: Principles of Learning and Teaching including the Subject Area Tests by the semester prior to graduation. (Secondary majors should check with their department.) Minimum scores required for each of these tests can be obtained in the Division of Education Office.

In order to graduate as teacher education majors and to obtain teacher certification, students must:

1. Achieve a 2.5 cumulative average for all coursework taken,
2. Not earn any grade below a "C", and
3. Pass all required subject area parts of the Praxis II prior to graduation.

Membership in a Professional Organization - The Division of Education also requires that students be members of at least one professional organization by their junior year and continue membership through the semester in which they student teach.

Teaching Certificates - Application for a Louisiana teaching certificate is made in the Division of Education Office.

Minor in Education - The Education Minor Program is designed for students majoring in other disciplines who may have an interest in education.

Students in the Education Minor Program are also strongly advised to take all sections of the Praxis tests. Education minors should also read all of the state requirements for teacher certification.

Minors in education are offered in four areas: Elementary, Secondary, Health, and Physical Education. A student should choose to minor in one of the four areas and complete the 18 hours of course work listed for that specific discipline area.

| Elementary Education Minor |  |  |  |
| :--- | :--- | :--- | :---: |
| EDUC | 1100 | Instructional Technology |  |
| EDUC | 2025 | Child Psychology |  |
| EDSP | 2040 | Introduction to Exceptional Children |  |
| EDUC | 2044 | Classroom Management |  |
| EDUC | 2061 | Foundations of Curriculum |  |
| EDUC | $3040^{*}$ | Educational Psychology |  |
|  |  |  |  |
| Secondary | Education Minor |  |  |
| EDUC | 1100 | Instructional Technology |  |
| EDUC | 2040 | Introduction to Exceptional Children |  |
| EDUC | 2044 | Classroom Management |  |
| EDUC | 2061 | Foundations of Curriculum |  |
| EDUC | $3040^{*}$ | Educational Psychology |  |
| EDSC | $4090^{*}$ | Adolescent Psychology |  |

*All non-education majors must meet criteria 1-4 for admission to the Teacher Education Program in order to schedule these courses.

Health Minor - The minor in Health consists of eighteen (18) semester hours of health-related courses of which ten (10) must include the following:

HLTH 1141 First Aid and CPR
HLTH 2200 Comprehensive Health
HLTH 2281 General Safety Education
PHED 2130 Anatomy and Physiology
The remaining eight (8) semester hours must be selected from the following:

| HLTH | 2130 | Personal and Environmental Health <br> EDEL 2400 |
| :--- | :--- | :--- |
| NLTH | $3090^{*}$ | School Health Program |
| PLED | $3190^{*}$ | Methods \& Materials of H \& P Education \& Safety |
| PLTH | $3210^{*}$ | Basic Health Science |
| HLTH | $3220^{*}$ | General Health and Safety Education |
| PHED | 4340 S* $^{*}$ | Seminar in Health and Physical Education |


| Physical Education Minor |  |  |  |
| :--- | :--- | :--- | :---: |
| HLTH |  | 1141 |  |
| PHED | 2015 | First Aid and CPR |  |
| PHED | 2130 | Anatomy and Physiology |  |
| PHED | 2140 | Fundamentals of Swimming |  |
| PHED | $3070^{* *}$ | Major Team Sports |  |
| PHED | $3080^{* *}$ | Team \& Individual Sports |  |
| PHED | $3240^{* *}$ | Kinesiology |  |
| PHED | $4360^{* *}$ | Organization \& Administration of H. \& P.E. |  |

*All non-education majors must meet criteria 1-4 for admission to the Teacher Education Program in order to schedule these courses.
"Prerequisite: Successful completion of HLTH 1141, PHED 2015, and PHED 2130.

## PROGRAM IN EARLY CHILDHOOD EDUCATION (GRADES PK - 3)



## SOPHOMORE YEAR

Education (EDUC) 2005R
Education (EDUC) 2005W
Education (EDUC) 2005M
Education (EDUC) 2025
Education (EDUC) 2030
Education (EDUC) 2040
Education (EDUC) 2044
African American Studies
Art 2090 or Music 2013
English 2010-2020
3
Integrated Physical Science 2010
Mathematics 2015
Theology
Student Competency Exams
$0 \quad$ Praxis PPST Reading
$0 \quad$ Praxis PPST Writing
0 Praxis PPST Math
Child Psychology
3 Children's Literature

Intro. To Exceptional Child.
3 Classroom Org. \& Management
3 Core Requirement
3 Art or Music for Teachers
3 World Literature
Integrated Physical Science
Geometry for Elem. Ed. Majors
3 Core Requirement
University Requirement

JUNIOR YEAR
All majors must have passed all parts of Praxis I and should have been accepted into the
Teacher Education Program before taking junior-level education courses.

| Education (EDUC) 3005L |  | 0 | Praxis II: Princ. of Lear. \& Teach. <br> Educational Psychology |
| :--- | :---: | :---: | :--- |
| Education (EDUC) 3040 | 3 |  | 3 | | Methods of Teach Reading |
| :--- |
| Education (EDEL) 3050A-B |

Education (EDUC) 40050
Education (EDEC) 3170
Education (EDEC) 3140
Education (EDUC) 4113R
Education (EDUC) 4030
Education (EDEC) 4050
Education (EDUC) 4060S
Education (EDUC) 4060A
Education (EDUC) 4200
Free Electives

## SENIOR YEAR

\(\left.\begin{array}{ll}0 \& <br>
3 \& <br>
3 \& <br>
Praxis: Elem. Educ. Content <br>
Child Growth \& Development <br>
Mat. \& Meth. of Teaching Math in <br>

the Ear. Child. Setting\end{array}\right]\)| Clin. Proc. in Rem Reading |
| :--- |
| 3 |

Semester Hours

## Semester Hours

African American Studies 3
Art or Music 3
Biology 6
Education 66
English 12
Geography 3
History 6
Integrated Physical Science 3

## SUMMARY

| SUMMARY |  |  | Semester Hours |
| :--- | ---: | :--- | ---: |
| Semester Hours |  | 9 |  |
| African American Studies | 3 | Mathematics | 6 |
| Art or Music | 3 | Philosophy | 1 |
| Biology | 6 | Physical Education | 3 |
| Education | 66 | Political Science | 3 |
| English | 12 | Speech Communication | 6 |
| Geography | 3 | Theology | 6 |
| History | 6 | Free Electives | 3 |
| Integrated Physical Science | 3 | Total Semester Hours | 133 |

# PROGRAM IN ELEMENTARY EDUCATION (GRADES 1-5) 

Education (EDUC) 1000
FRESHMAN YEAR

| Semester Hours |  |
| :--- | :---: |
| $\mathbf{1}^{\text {st }}$ | $\mathbf{2}^{\text {nd }}$ |
| Semester | Semester |

Semester Semester

Biology 1030/1030L
Biology 1050
English 1010-1020
Geography 1010
3

History 1030 or 1040
Mathematics 1015
Philosophy
Physical Education*
Political Science 1020
Speech Communication 1010
Computer Competency Exam
University 1010-1020

3 Environmental Biology
33 Comp \& Rhet./Comp \& Lit.
3 World Geography
0 Teacher Prep General Biology World Civilizations
3 Coll. Alg. for Elem. Ed. Majors
3 Core Requirement
1 Activity Course American Government
3 Fundamentals of Public Speaking A\&S Requirement Freshman Orientation
*Must be Physical Education activity.

## SOPHOMORE YEAR

Education (EDUC) 2005R
Education (EDUC) 2005W
Education (EDUC) 2005M
Education (EDUC) 2025
Education (EDUC) 2030
Education (EDUC) 2040
Education (EDUC) 2044
African American Studies
Art 2090 or Music 2013
English 2010-2020
Integrated Physical Science 2010
Mathematics 2015
$0 \quad$ Praxis PPST Reading
$0 \quad$ Praxis PPST Writing
0 Praxis PPST Math
$3 \quad$ Child Psychology
3 Children's Literature Intro. To Exceptional Child.
3 Classroom Org. \& Management
3 Core Requirement
3 Art or Music for Teachers
3 World Literature Integrated Physical Science

Physical Education 2015 Geometry for Elem. Ed. Majors

Theology
Student Competency Exams

|  | HOAR <br> 0 | Praxis PPST Reading <br> Praxis PPST Writing |
| :---: | :---: | :--- |
| 3 | 0 | Praxis PPST Math <br> Child Psychology <br> Children's Literature |
| 3 | 3 | Intro. To Exceptional Child. <br> Classroom Org. \& Management |
|  | 3 | Core Requirement <br> Art or Music for Teachers |
| 3 | 3 | World Literature <br> Integrated Physical Science <br> 3 |
| 3 | 3 | Geometry for Elem. Ed. Majors <br> Elementary School P.E. <br> Core Requirement <br> University Requirement |
| 3 | 0 | 18 |

## JUNIOR YEAR

All majors must have passed all parts of Praxis I and should have been accepted into the Teacher Education Program before taking junior-level education courses.

| Education (EDUC) 3005L |  | 0 | Praxis II: Princ. of Lear. \& Teach. |
| :---: | :---: | :---: | :---: |
| Education (EDEL) 3020 | 3 |  | Methods of Tchg. Elem. Sch. |
| Education (EDUC) 3040 | 3 |  | Educational Psychology |
| Education (EDEL) 3050A -B | 3 | 3 | Methods of Teach Reading |
| Education (EDEL) 3071 | 3 |  | Curriculum Applications I |
| Education (EDEL) 3081 |  | 3 | Curriculum Applications II |
| Education (EDUC) 3060A-B | 3 | 3 | Strat. \& Tech. in Elem. Sch. Math |
| History 3040 |  | 3 | Louisiana History |
| Integrated Physical Science 2020 |  | 3 | Earth Science |
| Mathematics 2025 |  | 3 | Finite Math for Elem Educ Maj. |
| Philosophy | 3 |  | Core Requirement |
|  | 18 | 18 |  |

Education (EDUC) 40050
Education (EDUC) 4030
Education (EDUC) 4060S
Education (EDUC) 4060A
Education (EDUC) 4113R
Education (EDUC) 4200
Education (EDUC) 4999
Integrated Physical Science 4010
Mathematics 1020
Theology
Free Electives

SENIOR YEAR

| 0 |  | Praxis: Elem. Educ. Content <br> Educational Meas. \& Evaluation <br> 3 |
| :---: | :---: | :--- |
|  | 0 | Student Teaching Seminar |
| 3 | 9 | Student Teaching |
|  | 3 | Clin. Proc. in Rem Reading |
|  | Multicultural Education |  |
| 3 | 0 | Senior Comprehensives |
| 3 |  | Advanced Earth Science |
| 3 |  | Basic Statistics |
| 3 |  | Core Requirement |
| Core Requirement |  |  |

## SUMMARY

## Semester Hours

African American Studies $\quad 3$
Art or Music 3
Biology 6
Education 54
English 12
Geography 3
History 6
Integrated Physical Science 9

## Semester Hours

* Must include one hour of Physical Education activity.


# PROGRAM IN MIDDLE SCHOOL EDUCATION (GRADES 4-8) 

Education (EDUC) 1000
Biology 1030/1030L
Biology 1050
English 1010-1020
Geography 1010
History 1030 or 1040
Mathematics 1010
Mathematics 1015
Physical Education
Political Science 1020
Speech Communication 1010
Computer Competency Exam
University 1010-1020

| FRESHMAN YEAR |  |  |
| :---: | :---: | :---: |
| Semester Hours |  |  |
|  |  |  |
| Semester | Semester |  |
|  | 0 T | Teacher Prep |
| 3 |  | General Biology |
|  | E | Environmental Biology |
| 3 | 3 C | Comp \& Rhet./Comp \& Lit. |
| 3 |  | World Geography |
| 3 |  | World Civilizations |
| 3 |  | Principles of Modern Math |
|  | C | Coll. Alg. for Elem. Ed. Majors |
|  | C | Core Requirement |
|  | 3 A | American Government |
|  | 3 F | Fundamentals of Public Speaking |
| 0 |  | A\&S Requirement |
| 0 | 0 F | Freshman Orientation |
| 15 | 16 |  |

## SOPHOMORE YEAR

Education (EDUC) 2005R
Education (EDUC) 2005W
Education (EDUC) 2005M
Education (EDUC) 20403
Education (EDUC) 2044
African American Studies
Art 2090 or Music 2013
Chemistry 1500
English 2010-2020
History 2010
Integrated Physical Science 2010
Mathematics 2015
Philosophy
Theology
Student Competency Exams
$0 \quad$ Praxis PPST Reading
$0 \quad$ Praxis PPST Writing
0 Praxis PPST Math
Intro. To Exceptional Child.
Classroom Org. \& Management
Core Requirement
Art or Music for Teachers
Environmental Chemistry
World Literature
U.S. History to 1865

Integrated Physical Science
Geometry for Elem. Ed. Majors
Core Requirement
Core Requirement University Requirement

JUNIOR YEAR
All majors must have passed all parts of Praxis I and should have been accepted into the Teacher Education Program before taking junior-level education courses.

| Education (EDUC) 3005L |  | 0 | Praxis II: Princ. of Lear. \& Teach. |
| :---: | :---: | :---: | :---: |
| Education (EDUC) 3040 | 3 |  | Educational Psychology |
| Education (EDEL) 3050A -B | 3 | 3 | Methods of Teach Reading |
| Education (EDEL) 3071 | 3 |  | Curriculum Applications I |
| Education (EDEL) 3081 |  | 3 | Curriculum Applications II |
| Education (EDUC) 3200 | 3 |  | Middle School Tchg. Strategies |
| English 3233 |  | 3 | Tchg. Comp. \& Literature |
| History 3040 | 3 |  | Louisiana History |
| Integrated Physical Science 2020 |  | 3 | Earth Science |
| Mathematics 2025 |  | 3 | Finite Math for Elem Educ Maj. |
| Philosophy | 3 |  | Core Requirement |
| Theology |  | 3 | Core Requirement |
|  | 18 | 18 |  |

Education (EDUC) 40050
Education (EDUC) 4030
Education (EDUC) 4060S
Education (EDSC) 4061 T
Education (EDUC) 4090
Education (EDUC) 4150
Education (EDUC) 4200
Education (EDUC) 4999
Integrated Physical Science 4010
Mathematics 1020
Free Electives

## SENIOR YEAR

| 0 |  | Praxis: Content Exams <br> Educational Meas. \& Evaluation <br> 3 |
| :--- | :--- | :--- |
|  | 0 | Student Teaching Seminar <br> Student Teaching |
| 3 |  | Adolescent Psychology <br> Tchg. Reading in Content Areas |
|  | 3 | Multicultural Education <br> Senior Comprehensives <br> Advanced Earth Science |
| 3 | 0 |  |
| 3 |  | Basic Statistics <br> Core Requirement |
| 18 | 12 |  |

## SUMMARY

|  | Semester Hours |  | Semester Hours |
| :--- | ---: | :--- | ---: |
| African American Studies | 3 | Integrated Physical Science | 9 |
| Art or Music | 3 | Mathematics | 15 |
| Biology | 6 | Philosophy | 6 |
| Chemistry | 3 | Physical Education | 1 |
| Education | 45 | Political Science | 3 |
| English | 15 | Speech Communication | 3 |
| Geography | 3 | Theology | 3 |
| History | 9 | Free Electives | 6 |
|  |  | Total Semester Hours | 3 |

# PROGRAM IN SPECIAL EDUCATION (Generic - Mild/Moderate - K-12) 

Education (EDUC) 1000
Education (EDUC) 1100
Biology 1030/1030L
Biology 1050
English 1010-1020
Geography 1010
History 1030 or 1040
Mathematics 1010
Mathematics 1015
Physical Education
Social Sciences
Speech Communication 1010
Computer Competency Exam
University 1010-1020

## SOPHOMORE YEAR

Education (EDUC) 2005R
Education (EDUC) 2005W
Education (EDUC) 2005M
Education (EDUC) 2030
Education (EDSP) 2040
Education (EDSP) 2042
African American Studies
Art 1090 or 2090 or
Music 2013 or 2000
English 2010-2020
History 2010 or 2020
Integrated Physical Science 2010
Philosophy
Speech Pathology 1320
Theology
Student Competency Exams

FRESHMAN YEAR
Semester Hours ${ }^{\text {st }}$
$\mathbf{1}^{\text {st }}$
Semester
Semester

0 Teacher Prep
3 Instructional Technology General Biology
3 Environmental Biology
3 Comp \& Rhet./Comp \& Lit.
3 World Geography
World Civilizations
Principles of Modern Math
3 Coll. Alg. for Elem. Ed. Majors
Core Requirement
3 Core Requirement
Fundamentals of Public Speaking A\&S Requirement Freshman Orientation

|  | 0 | Praxis PPST Reading <br> Praxis PPST Writing <br> Praxis PPST Math |
| :--- | :--- | :--- |
| 3 | 0 | Children's Literature <br> Intro. to Excep. Children <br> Voc. \& Trans. Services for <br> Students with Disabilities |
|  | 3 | Core Requirement <br> Art App. or Essen. for Tchrs <br> Elm.. Music or Music App. |
| 3 | 3 | World Literature <br> United States History <br> 3 |
| 3 |  | Integrated Physical Science <br> Core Requirement |
| 3 | 3 | Intro. to Comm. Disorders <br> Core Requirement <br> University Requirement |
|  | 0 |  |

## JUNIOR YEAR

All majors must have passed all parts of Praxis I and should have been accepted into the Teacher Education Program before taking junior-level education courses.

Education (EDUC) 3005L
Education (EDUC) 2025-3040
Education (EDSP) 2044
Education (EDSP) 3040
Education (EDSP) 3041
Education (EDEL) 3050A -B
Education (EDUC) 4030
Education (EDSP) 4031
Integrated Physical Science 2020
Philosophy
Speech Pathology 2730

0 Praxis II: Princ. of Lear. \& Teach.
3 Child Psyc./Educ. Psych.
3 Classroom Org. \& Management Behav.. App. To M/M
Methods of Teaching Basic Skills M/M
Methods of Teach Reading Educational Meas. \& Evaluation
Pract. Tests \& Measurement
Earth Science
Core Requirement
Normal Language Development

## SENIOR YEAR

Education (EDSP) 4042
Education (EDSP) 4043
Education (EDUC) 4060S
Education (EDSP) 4060T
Education (EDUC) 4090
Education (EDUC) 4113R
Education (EDUC) 4200
Education (EDUC) 4999
Theology
Free Electives

3
3

3
3
9

## Methods of Teach Students w/M/M Disabilities

 Mainstreaming Practicum0 Student Teaching Seminar
9 Student Teaching Adolescent Psychology Clinical Procedures in Remedial Reading
3 Multicultural Education
0 Senior Comprehensives Core Requirement Core Requirement

## SUMMARY

## Semester Hours

Semester Hours
African American Studies 3
Art or Music 3
Biology 6
Education (EDEL, EDUC) 39
Education (EDSP) 24
English 12
Geography 3
History 6
Integrated Physical Science 6
Mathematics
Philosophy 6
Physical Education 1
Social Sciences 3
Speech Communication 3
Speech Pathology 6
Theology 6

| Free Electives | $\frac{3}{2}$ |
| :--- | ---: |
|  |  |

## PROGRAM IN HEALTH AND PHYSICAL EDUCATION (GRADES K-12)

Education (EDUC) 1000
Education (EDUC) 1100
Health 1141
Health 2140-2145
Physical Education 1070
Biology 1030/1030L1040/1040L
English 1010-1020
History 1030
Mathematics 1010-1020
Social Sciences
Speech Communication 1010
Computer Competency Exam
University 1010-1020

| FRESHMAN YEAR |  |  |
| :---: | :---: | :---: |
| Semester Hours |  |  |
|  | $2^{\text {nd }}$ |  |
| Semester | Semester |  |
|  | T | Teacher Prep |
| 3 |  | Instructional Psychology |
|  | F | First Aid and CPR |
|  | F | Fund. Swimming/Inter. Swimm. |
|  | 1 F | Folk Dancing |
| 3 | G | General Biology |
| 3 | C | Comp \& Rhet./Comp \& Lit. |
|  | W | World Civilizations |
| 3 | P | Prin. Mod. Math/Basic Stat. |
| 3 | 3 C | Core Requirement |
| 3 |  | Fundamentals of Public Speaking |
| 0 |  | A\&S Requirement |
| 0 | 0 F | Freshman Orientation |
| 18 | 18 |  |

## SOPHOMORE YEAR

Education (EDUC) 2005R
Education (EDUC) 2005W
Education (EDUC) 2005M
Health 2130
Health 2281
Physical Education 2015
Physical Education 2145 or 2150
Physical Education 2120
Physical Education 2130
English 2010-2020
History 2010 or 2020
Integrated Physical Science 2010
Theology
Free Electives
Student Competency Exams
$0 \quad$ Praxis PPST Reading
$0 \quad$ Praxis PPST Writing
0 Praxis PPST Math
3 Personal \& Environmental
3 General Safety Education Elem. School Phys. Ed. Inter. Swimming/Adv. Swimming
3 Adaptive Physical Education
Anatomy and Physiology
3 World Literature
United States History
Integrated Physical Science
Core Requirement
3
2
2

| 2 | 2 |
| :---: | :---: |
|  | 0 |
| 18 | 17 |

JUNIOR YEAR
All majors must have passed all parts of Praxis I and should have been accepted into the Teacher Education Program before taking junior-level education courses.
\(\left.$$
\begin{array}{lccl}\begin{array}{l}\text { Education (EDUC) 3005L } \\
\text { Education (EDUC) 4090 } \\
\text { Education (EDUC) } 3040 \\
\text { Education (EDUC) } 4200\end{array} & 3 & 0 & \begin{array}{l}\text { Praxis II: Princ. of Lear. \& Teach. } \\
\text { Adolescent Psychology. } \\
\text { Educational Psychology } \\
\text { Multicultural Education }\end{array} \\
\begin{array}{l}\text { Health 3090 } \\
\text { Physical Education 3030 } \\
\text { Physical Education 3070-3080 }\end{array} & 3 & 3 & 3\end{array}
$$ \begin{array}{l}School Health Program <br>
Physiology of Exercise <br>
Major Team Sports/Team <br>

and Individual Sports\end{array}\right]\)| Mthds. of Tchng. Hlth. \& Phys. Ed. |
| :--- |
| Physical Education 3190 <br> Physical Education 3240 |
| African American Studies <br> Philosophy |
| Theology <br> Free Electives |

## SENIOR YEAR

Education (EDUC) 4060S
Education (EDSC) 4061 T
Physical Education 4310
Physical Education 4340S
Physical Education 4350
Physical Education 4360
Physical Education 4999
Philosophy 2000 level

## 0 9

Praxis II: Princ. of Lear. \& Teach. Adolescent Psychology.
Educational Psychology
Multicultural Education
Physiology of Exa.
Major Team Sports/Team and Individual Sports
Mthds. of Tchng. Hlth. \& Phys. Ed.
Kinesiology
Core Requirement
Core Requirement
Core Requirement
Core Requirement

|  | 9 | Student Teaching <br> 3 |
| :---: | :--- | :--- |
| 3 |  | Hist. \& Prin. of Phys. Ed. <br> Seminar in Hlth \& Phy. Educ. <br> 3 |
| 3 |  | Tests \& Msmnts. in Hlth \& Ph. Ed. <br> Org. \& Adm. of Hlth \& Phys. Ed. |
| 3 | 0 | Senior Comprehensives <br> Core Requirement |
| 15 | 12 |  |

## SUMMARY

## Semester Hours

## Semester Hours

| African American Studies | 3 | Philosophy | 6 |
| :--- | ---: | :--- | ---: |
| Biology | 6 | Physical Education | 47 |
| Education | 24 | Social Sciences | 6 |
| English | 12 | Speech Communication | 3 |
| History | 6 | Theology | 6 |
| Integrated Physical Science | 3 | Free Electives | 5 |
| Mathematics | 6 | Total Semester Hours | 133 |

## PROGRAM IN ART EDUCATION (GRADES K-12)

Art 1010-1020
Art 1030-1040
Art 1090
Education (EDUC) 1000
English 1010-1020
History 1030-1040
FRESHMAN YEAR

| Semester <br> $\mathbf{1}^{\text {st }}$ | Hours <br> $\mathbf{2}^{\text {nd }}$ |  |
| :---: | :---: | :--- |
| Semester | Semester |  |
| 3 | 3 | Design IA-IB <br> 3 |
| 3 | 3 | Drawing IA-IB <br> Art Appreciation |
|  | 0 | Teacher Prep |
| 3 | 3 | Comp \& Rhet. /Comp Lit. |
| 3 | 3 | World Civilizations |
| 3 | 3 | Modern Math/Basic Stat. |
|  | 3 | Fundamentals of Public Speaking <br> A\&S Requirement |
| 0 | 0 | Freshman Orientation |
| 0 | 0 |  |

## SOPHOMORE YEAR

Art 1050-1060
Art 2020-2080
Art 2030-2040
Education (EDSP) 2040
Education (EDUC) 2005R
Education (EDUC) 2005W
Education (EDUC) 2005M
Biology 1030/1030L 1040/1040L
English 2010
Integrated Physical Science 2010
Physical Education
Free Elective
Student Competency Exam

| 3 | 3 | Ceramics/Painting |
| :--- | :--- | :--- |
| 3 | 3 | Graphics/Printmaking |
| 3 | 3 | Drawing IIA-IIB |
| 3 |  | Intro. to Exceptional Children <br>  |
|  | 0 | Praxis PPST Reading <br> Praxis PPST Writing |
| 3 | 0 | Praxis PPST Math |
| 3 | 3 | General Biology |
|  | 3 | World Literature |
|  | 1 | Integrated Physical Science |
|  | 2 |  |
|  | 0 | University Requirement |
|  | 18 |  |

## JUNIOR YEAR

All majors must have passed all parts of Praxis I and should have been accepted into the Teacher Education Program before taking junior-level education courses.

| Art 2110-2120 | 3 | 3 | History of Art IA - IB |
| :---: | :---: | :---: | :---: |
| Art 2130 |  | 3 | Art of the $20{ }^{\text {th }}$ Century |
| Art 3000 | 3 |  | Trends in Art Education |
| Education (EDUC) 3005L |  | 0 | Praxis II: Princ. of Lear. \& Teach. |
| Education (EDUC) 2044 |  | 3 | Classroom Org. \& Management |
| Education (EDSC) 3023 | 3 |  | Special Methods |
| Education (EDSC) 3040 | 3 |  | Educational Psychology |
| Education (EDUC) 4090 |  | 3 | Adolescent Psychology |
| Philosophy | 3 | 3 | Core Requirement |
| Theology | 3 | 3 | Core Requirement |

Art 2090
Art 2070
Art 4999
Education (EDSC) 4061 T
Education (EDUC) 4060S
Education (EDUC) 4200
African American Studies
Social Sciences
Free Elective

SENIOR YEAR
3

Art Essentials for Teachers Intro to Sculpture Senior Comprehensives Student Teaching Student Teaching Seminar Multicultural Education Core Requirement Core Requirement Core Requirement

| Art | 51 |
| :--- | ---: |
| African American Studies | 3 |
| Biology | 6 |
| Education | 27 |
| English | 9 |
| Health \& Physical Ed. | 1 |
| History | 6 |

Integrated Physical Science ..... 3
Mathematics ..... 6
Philosophy ..... 6
Social Sciences ..... 3
Speech Communication ..... 3
Theology ..... 6Free Electives5
Total Semester Hours ..... 135

# PROGRAM IN BIOLOGY EDUCATION (GRADES 6-12) (Certification - Biology and General Science) 

## FRESHMAN YEAR

Semester Hours
$\mathbf{1}_{1 \text { tr }}$
Semester
$\mathbf{2}^{\text {nd }}$
Semester

Biology 1230/1230L1240/1240L
Chemistry 1010/1010D/1011L 1020/1020D/1021L 1020H/1020D/1021L
Education (EDUC) 1000
English 1010-1020
History 1030-1040
Philosophy
Physical Education
Speech Communication 1010
Computer Competency Exam
University 1010-1020

## SOPHOMORE YEAR

Biology 2000/2000L
Biology 2010/2010L
Education (EDUC) 2044
Education (EDUC) 2005R
Education (EDUC) 2005W
Education (EDUC) 2005M
African American Studies
Chemistry 2210/2210D/2230L
English 2010
Mathematics 1030
4
Biodiversity
4 Microbiology
3 Class. Org. \& Management
0 Praxis PPST Reading
0 Praxis PPST Writing
$0 \quad$ Praxis PPST Math
3 Core Requirement
4
3
Mathematics 1020
Social Sciences
Theology
4
Organic Chemistry I
World Literature I
Pre calculus
3 Basic Statistics I
Core Requirement
Core Requirement
Free Electives
Student Competency Exams

| 4 |  | Biodiversity |
| :---: | :---: | :---: |
|  | 4 | Microbiology |
|  | 3 | Class. Org. \& Management |
|  | 0 | Praxis PPST Reading |
|  | 0 | Praxis PPST Writing |
|  | 0 | Praxis PPST Math |
|  | 3 | Core Requirement |
| 4 |  | Organic Chemistry I |
| 3 |  | World Literature I |
| 4 |  | Pre calculus |
|  | 3 | Basic Statistics I |
| 3 |  | Core Requirement |
|  | 3 | Core Requirement |
|  | 2 |  |
|  | 0 | University Requirement |
| 18 | 18 |  |

JUNIOR YEAR
All majors must have passed all parts of Praxis I and should have been accepted into the Teacher Education Program before taking junior-level Education and Psychology courses.

| Biology 3110/3110L | 4 | Genetics |  |
| :---: | :---: | :---: | :---: |
| Biology Electives |  | Introduction to Scientific |  |
| Biology 4210 |  | Introduction to Scien | Introduction to Scientific Lit. |
| Education (EDUC) 3005L |  | Praxis II: Princ. of L |  |
| Education (EDSP) 2040 | 3 |  | Intro. to Exceptional Children |
| Education (EDSC) 3023 | 3 | Methods of Teachin |  |
| Education (EDSC) 3023B |  |  |  |
| Education (EDUC) 3040 | 3 | Educational Psycho |  |
| Education (EDUC) 4090 |  | Adolescent Psycholo | Adolescent Psychology |
| Physics 2010/2010L- |  |  |  |
| 2020/2020L | 4 | General Physics I \& Core Requirement |  |
| Theology |  |  |  |
|  | 17 |  |  |
| Philosophy | SUMMER |  |  |
|  | 3 | Core Requirement |  |
|  | 3 |  |  |
|  | SENIOR YEAR |  |  |
| Biology 4550 | 3 |  | Advanced Reading in Biology |
| Biology Electives | 5 |  | Elective |
| Education (EDUC) 3005B | 0 |  | Praxis II: Biol, Chem., \& Gen. Sci. |
| Education (EDSC) 4065 |  | Student Teaching | Student Teaching |
| Education (EDSC) 4060S |  | 0 Student Teaching Se | Student Teaching Seminar |
| Education (EDSC) 4150 | 3 |  | Teaching Reading in Content Area |
| Education (EDSC) 4200 |  | 3 Multicultural Educat | Multicultural Education |
| Integrated Physical Science 2020 | 3 |  | Earth Science |
| Fine Arts | 3 |  | Core Requirement |
| Theology | 3 |  | Core Requirement |
| Free Elective | 18 |  |  |
|  | 18 | 12 |  |
| SUMMARY |  |  |  |
| Semester Hours |  | Semester Hours |  |
|  |  | Integrated Physical Science* | ted Physical Science* |
| Biology | 36 | Mathematics | natics |
| Chemistry* | 12 | Philosophy | phy |
| Education | 33 | Physics* | * |
| English | 9 | Social Sciences | Sciences |
| Fine Arts | 3 | Speech Communication | Communication |
| Physical Education | 1 | Theology | gy |
| History | 6 | Free Electives | lectives |
|  |  | Total Semester Hours | Semester Hours 142 |

[^13]
## PROGRAM IN CHEMISTRY EDUCATION (GRADES 6-12)

 (Certification - Chemistry, Physics, and General Science)Chemistry 1010/1010D/1011L 1020/1020D/1021L
Education (EDUC) 1000
English 1010-1020
History 1030-1040
Mathematics 1030-1070
Speech Communication 1010
Theology
Computer Competency Exam
University 1010-1020

Chemistry 2210/2210D/2230L2220/2220D/2240L
Education (EDUC) 2005R
Education (EDUC) 2005W
Education (EDUC) 2005M
Education (EDUC) 2044
Biology 1230/1230L- 1240/1240L
English 2010
Philosophy
Physics 2010/2010L - 2020/2020L
Social Sciences
Student Competency Exams

FRESHMAN YEAR

| Semester Hours |  |
| :--- | :---: |
| $\mathbf{1}^{\text {st }}$ | $\mathbf{2}^{\text {nd }}$ |
| Semester | Semester |

Semester Semester
$4 \quad 4 \quad$ General Chemistry I \& II
0 Teacher Prep
33 Comp \& Rhet./Comp \& Lit.
33 World Civilizations
$4 \quad 4 \quad$ Pre Cal/Intro Calculus
3 Fundamentals of Public Speaking Core Requirement A\&S Requirement Freshman Orientation

SOPHOMORE YEAR

| 4 | 4 | Organic Chemistry I \& II <br> Praxis PPST Reading |
| :--- | :--- | :--- |
|  | 0 | Praxis PPST Writing |
|  | 0 | Praxis PPST Math <br> Classroom Org. \& Management <br> 4 |
| 3 | 4 | General Biology I \& II \& Lab <br> World Literature |
| 4 | 3 | Core Requirement <br> General Physics I \& II \& Lab <br> 3 |
| 18 | 18 | Core Requirement <br> University Requirement |

JUNIOR YEAR
All majors must have passed all parts of Praxis I and should have been accepted into the Teacher Education Program before taking junior-level Education and Psychology courses.

Chemistry 3010
Chemistry 3210/3210L
Chemistry 3220L
Education (EDSP) 2040
Education (EDSC) 3023
Education (EDSC) 3023C
Education (EDUC) 3005L
Education (EDUC) 3040
Education (EDUC) 4090
Integrated Physical Science 4010
Philosophy 3250
Physical Education
Theology

3 P. Chem. for the Life Sciences
Quant. Analysis \& Lab
2 Qual. Organic Analysis
Exceptional Children
Methods of Teaching Science
3 Meth. for Preservice Chem. Teachers
0 Praxis II: Princ. of Lear. \& Teach.
Educational Psychology
3 Adolescent Psychology
3 Advanced Earth Science
Philosophy of Science
Core Requirement
3 Core Requirement

Chemistry 4130
SENIOR YEAR
Chemistry 4073*
Chemistry 4999
Education (EDUC) 3005C
Education (EDUC) 4061T
Education (EDUC) 4060S
Education (EDSC) 4150
Education (EDUC) 4200
African American Studies
Fine Arts
Free Electives

3

| 3 |  | Introduction to Biochemistry <br> Chemistry Literature Research <br> Senior Comprehensives <br> Praxis II: Chem., Phys., Gen. Sci. |
| :--- | :--- | :--- |
| 0 | 0 | Student Teaching |
| 3 | 0 | Student Teaching Seminar <br> Teaching Reading in Content Area <br> Multicultural Education |
| 3 | 3 | Core Requirement <br> Core Requirement <br> Core Requirement |
| 3 |  |  | Chemistry Literature Research Praxis II: Chem., Phys., Gen. Sci. Student Teaching Teaching Reading in Content Area Multicultural Education ore Requirement Core Requirement Core Requirement

*CHEM 4083, Undergraduate Research may be substituted with permission of the course instructor.

Semester Hours
African American Studies 3
Biology 8
Chemistry 31
Education 33
English 9
Fine Arts 3
History 6
Integrated Physical Science 3

Semester Hours
Mathematics 8
Philosophy 6
Physical Education 1
Physics 8
Social Sciences 3
Speech Communication 3
Theology 6
Free Electives $\quad 3$
Total Semester Hours $\quad 134$

## PROGRAM IN ENGLISH/ENGLISH EDUCATION (GRADES 6-12)

English 1010-1020
Fine Arts
Foreign Language
History 1030-1040
Mathematics 1010-1020
Speech Communication 1010
Physical Education
Computer Competency Exam
University 1010-1020

English 2010-2020
English 2070-2080
English 2200
Education (EDUC) 2005R
Education (EDUC) 2005W
Education (EDUC) 2005M
Education (EDUC) 2044
Natural Science
Philosophy
Social Sciences
Theology*
Free Electives
Student Competency Exam

FRESHMAN YEAR
Semester Hours

| $1^{\text {st }}$ | $\mathbf{2}^{\text {nd }}$ |
| :---: | :---: |
| Semester | Semester |


| 3 | 3 | Comp \& Rhet. /Comp Lit. |
| :--- | :---: | :--- |
|  | 3 | Core Requirement |
| 3 | 3 | Core Requirement |
| 3 | 3 | World Civilizations |
| 3 | 3 | Modern Math/Basic Statistics |
| 3 |  | Fundamentals of Public Speaking |
| 1 |  | Core Requirement |
| 0 |  | A\&S Requirement |
| 0 | 0 | Freshman Orientation |
| 16 | 15 |  |

## SOPHOMORE YEAR

| 3 | 3 | World Literature |
| :--- | :--- | :--- |
| 3 | 3 | British Literature <br> 3 |
|  | 0 | Modern English Grammars <br>  |
|  | 0 | Praxis PPST Reading <br> Praxis PPST Writing Math |
| 3 | 3 | Classroom Org. \& Management |
|  | 3 | Core Requirement |
| 3 | 3 | Core Requirement <br> Core Requirement |
| 3 |  | Core Requirement |
|  | 1 | Core Requirement |
|  | 0 | University Requirement |

[^14]
## SUMMER

| Theology** | 3 | Core Requirement |
| :--- | ---: | ---: |
| Free Electives | 3 | Core Requirement |

**Students must take one of the following: THEO 2002, 2021, 2022, 2100, 2200, 2410, 2440, 2600, 3060, 3200, 3300, 3370, 3800, 38750.

## JUNIOR YEAR

All majors must have passed all parts of Praxis I and should have been accepted into the Teacher Education Program before taking junior-level education courses.

| English 3040 or 3050 | 3 |  | Shakespeare |
| :---: | :---: | :---: | :---: |
| English 3160-3170 | 3 | 3 | American Literature |
| English 3310 | 3 |  | Rhet., Comp. \& Tching of Writing |
| English 3320 |  | 3 | Critical App. to Teaching Lit. |
| English Elective*** | 3 | 3 |  |
| Education (EDSP) 2040 |  | 3 | Introduction to Exceptional Chil. |
| Education (EDUC) 3005L |  | 0 | Praxis II: Princ. of Lear. \& Teach. |
| Education (EDUC) 3040 | 3 |  | Educational Psychology |
| African American Studies |  | 3 | Core Requirement |
| Philosophy 3250 |  | 3 | Philosophy of Science |
|  | 15 |  |  |

${ }^{\overline{* * *} \text { Students }}$ must take 3 hours (a total of 6) from two of the following groups: (Engl 3185, 3280, 3290; (2) ENGL 3010, 3021, 3970; (3) ENGL 3210, 3221, 3270.

English 4010/4020/4030/4040/4050
English 3135
English Elective
English 4999
Education (EDSC) 4061T
Education (EDUC) 4060S
Education (EDUC) 4090
Education (EDUC) 4200

SENIOR YEAR

| 3 | 3 | Seminar |
| :---: | :---: | :--- |
| 3 |  | Language: History \& Theory |
| 3 |  |  |
|  | 0 | Senior Comprehensives |
|  | 9 | Student Teaching |
| 3 | 0 | Student Teaching Seminar |
| 3 |  | Adolescent Psychology |
| 15 | 12 |  |

0 Senior Comprehensives
9 Student Teaching Student Teaching Seminar hology

## SUMMARY

## Semester Hours

African American Studies 3
Education 24
English 52
Fine Arts 3
Foreign Language 6
History 6
Mathematics 6

## Semester Hours

## Natural Science

Philosophy 6
Physical Education1

Social Sciences 3
Speech Communication 3
Theology**** 6
Free Electives
Total Semester Hours
4
131
****Students must take either Theology 1100 or 1120, and one of the following: THEO 2002, $2021,2022,2100,2200,2410,2440,2600,3060,3200,3300,3370,3800,38750$ to fulfill the Theology requirement.

# PROGRAM IN FOREIGN LANGUAGE EDUCATION <br> (GRADES K-12) <br> (FRENCH OR SPANISH EDUCATION) 

|  | FRESHMAN YEAR <br> Semester Hours |  |  |
| :---: | :---: | :---: | :---: |
|  | $\underset{1^{\text {st }}}{\text { Semester }}$ Hours $\mathbf{2 n d}^{\text {nd }}$ |  |  |
|  | Semester | Semester |  |
| Language $1010-1020,1020-2010$, or 2010-2020 | 3 | 3 | Elementary or Intermediate (French/Spanish) |
| Education (EDUC) 1100 | 3 |  | Instructional Technology |
| English 1010-1020 | 3 | 3 | Comp \& Rhet. /Comp Lit. |
| Biology 1030/1030L-1040/1040L | 3 | 3 | General Biology |
| Physical Education | 1 |  | Core Requirement |
| Mathematics 1010-1020 | 3 | 3 | Modern Math/Basic Statistics |
| Speech Communication 1010 |  | 3 | Fundamentals of Public Speaking |
| Social Sciences |  | 3 | Core Requirement |
| Computer Competency Exam | 0 |  | A\&S Requirement |
| University 1010-1020 | 0 | 0 | Freshman Orientation |
|  | 16 | 18 |  |

## SOPHOMORE YEAR

Language 2010-2020, 3010-3020, or 2020-3 hr. 3000-level course
Education (EDUC) 2005R
Education (EDUC) 2005W
Education (EDUC) 2005M
Education (EDSP) 2040
African American Studies
English 2010-2020
History 1030-1040
Integrated Physical Science 2010
Philosophy
Theology
Student Competency Exam

33 Interm. (Fren/Span), Gram-Comp, or Interm II-3000-level course
$0 \quad$ Praxis PPST Reading
0 Praxis PPST Writing
0 Praxis PPST Math Intro. to Exceptional Children
Core Requirement
3 World Literature
3 Western Civilizations
3 Integrated Physical Science
Core Requirement
Core Requirement
University Requirement

## JUNIOR YEAR

All majors must have passed all parts of Praxis I and should have been accepted into the Teacher Education Program before taking junior-level education courses.

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THE FOLLOWING JUNIOR YEAR CURRICULUM IS REQUIRED FOR ALL FRENCH
EDUCATION MAJORS. SPANISH EDUCATION MAJORS MAY ALSO OPT FOR THIS
JUNIOR YEAR CURRICULUM.
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Language (See Advisor)
Language 4050 or 4051
Education (EDUC) 3005L
Education (EDUC) 3040
Fine Arts
Integrated Physical Science 2020
Philosophy
Theology
Free Elective12

- 3303
333


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Study Abroad
Internship or Special Topics
Praxis II: Princ. of Lear. \& Teach.
Educational Psychology
Core Requirement
Earth Science
Core Requirement
Core Requirement
Core Requirement
```

THE FOLLOWING JUNIOR YEAR CURRICULUM IS FOR SPANISH EDUCATION MAJORS WHO DO NOT ELECT THE STUDY ABROAD OPTION ABOVE.

| Language 3001-3002 or Elective | 3 | 3 | Grammar/Comp. Or Elective <br> Language 3011-3012 or Elective |
| :--- | :---: | :---: | :--- |
| Language 4051 or 4052 |  |  |  |

Language 4080
Language 4052 or 4033
Language Elective
Language 4999
Education (EDUC) 2044
Education (EDUC) 4061T
Education (EDUC) 4060S
Education (EDUC) 4090
Education (EDUC) 4200
Education (EDUC) 4999
Social Sciences

## SENIOR YEAR

| 3 |  | Language Teaching Methodology |
| :---: | :--- | :--- |
| 3 |  | Special Topics or Directed Rdngs |
| 3 |  | Language Elective |
| 0 |  | Senior Comprehensives <br> 3 |
|  | Classroom Org. \& Management <br> Student Teaching |  |
| 3 | 0 | Student Teaching Seminar <br> Adolescent Psychology |
|  | Adulticultural Education <br> Senior Comprehensives <br> Sore Requirement |  |
| 3 | 0 |  |

## SOPHOMORE YEAR

Mathematics 2030
Mathematics 2080
Mathematics 2560
Statistics
Education (EDUC) 2005R
Education (EDUC) 2005W
Education (EDUC) 2005M
Education (EDSP) 2040
Education (EDUC) 2044
African American Studies
English 2010
Natural Science*
Theology
Free Electives
Student Competency Exam

3 Linear Algebra Calculus III
4
Discrete Structures II
3 Statistical Methods
$0 \quad$ Praxis PPST Reading
0 Praxis PPST Writing
$0 \quad$ Praxis PPST Math Intro. To Exceptional Children Classroom Management
3 Core Requirement World Literature I
3 Core Requirement
3 Core Requirement
Core Requirement University Requirement

## JUNIOR YEAR

All majors must have passed all parts of Praxis I and should have been accepted into the Teacher Education Program before taking junior-level education courses.

| Mathematics 2160L |  | 1 | Mathematics Technology Lab <br> Modern Geometry |
| :--- | :---: | :---: | :--- |
| Mathematics 4010 | 3 | 3 | History of Mathematics <br> Abstract Algebra |
| Mathematics 4030 | $3 / 0$ |  | Praxis II: Princ. of Learn. \& Teach. <br> Mathematics 4095/4095D |
| Education (EDUC) 3005L <br> Education (EDSC) 3023-3023M | 0 | 3 | Special Methods I <br> Educational Psychology <br> Adolescent Psychology |
| Education (EDUC) 3040 | 3 | 3 | Education (EDUC) 4090 |
| Computer Science elective | 3 | 3 | Core Requirement |
| Fine Arts |  |  |  |
| Natural Science* |  |  |  |
| Secondary Teaching Area* | 3 | 3 |  |

## SENIOR YEAR

| Mathematics 4999 |  | 0 | Senior Comprehensives <br> Praxis: Content Area |
| :--- | :--- | :--- | :--- |
| Education (EDUC) 3005L | 0 | 0 | Student Teaching Seminar <br> Education (EDUC) 4060S |
| Education (EDSC) 4061T | 3 | 9 | Student Teaching <br> Teaching Reading in the Content Area <br> Education (EDSC) 4150 |
| Multicultural Education |  |  |  |
| Education (EDUC) 4200 | 3 | 3 | Philosophy of Science |
| Philosophy 3250 | 7 |  | Core Requirement |
| Secondary Teaching Area* | 3 |  |  |
| Theology | 1 |  |  |


|  | SUMMMARY |  |  |
| :--- | ---: | :--- | ---: |
|  | Semester Hours |  | Semester Hours |
| African American Studies | 3 | Philosophy | 6 |
| Computer Science | 3 | Physical Education | 1 |
| Education | 33 | Secondary Teaching Area* | 10 |
| English | 9 | Social Sciences | 3 |
| Fine Arts | 3 | Speech Communication | 3 |
| History | 6 | Statistics | 3 |
| Mathematics | 31 | Theology | 6 |
| Natural Sciences | 9 | Free Electives | 6 |
|  |  | Total Semester Hours | 3 |
|  |  |  | 132 |

[^15]
# PROGRAM IN MUSIC EDUCATION (GRADES K-12) INSTRUMENTAL OR VOCAL SUPERVISION 

Music (MUAP) Applied Music (MUEN) 1910S-1920S or Music (MUEN) 1310U-1320U
Music (MUAP) Applied Piano
Music (MUST) 1030-1040
Music (MUST) 1030L-1040L
Music (MUSH 1050-1070
Music (MURE) 1070A-1070B
Education (EDUC) 1000
English 1010-1020
Mathematics 1010-1020
Physical Education 1070
Computer Competency Exam
University 1010-1020

Natural Science
History 1030

Music (MUAP) Applied
Music (MUEN) 2910S-2920S or
Music (MUEN) 2310U-2320U
Music (MURE) 2070A-2070B
Music (MUAP) Applied Piano
Music (MUST) 2030-2040
Music (MUST) 2030L-2040L
Music (MUSM) 2010-2020
Education (EDUC) 2044
Education (EDUC) 2040
Education (EDUC) 2005R
Education (EDUC) 2005W
Education (EDUC) 2005M
English 2010-2020
History 2010 or 2020
Student Competency Exam

| FRESHMAN YEAR |  |  |
| :---: | :---: | :---: |
| Semester Hours |  |  |
| $1{ }^{\text {st }}$ | $2^{\text {nd }}$ |  |
| Semester | Semester |  |
| 2 | 2 | Major Applied Study |
| 1 | 1 | Ensemble: Symphonic Band |
|  |  | Ensemble: University Chorus |
| 1 | 1 |  |
| 3 | 3 | Music Theory Lecture I - II |
| 1 | 1 | Music Theory Lab I, II |
| 3 | 3 | Intro. To Music History \& Lit. |
| 0 | 0 | Recital Class |
|  | 0 | Teacher Prep |
| 3 | 3 | Comp \& Rhet. /Comp Lit. |
| 3 | 3 | Modern Math/Basic Stat. |
|  | 1 | Folk Dancing |
| 0 |  | A\&S Requirement |
| 0 | 0 | Freshman Orientation |
| 17 | 18 |  |

## SUMMER

| 3 <br> 3 | 3 | Core Requirement <br> World Civilizations |
| :--- | :--- | :--- |
|  | 3 |  |

## SOPHOMORE YEAR

| 2 | 2 | Major Applied Study <br> Ensemble: Symphonic Band <br> Ensemble: University Chorus |
| :--- | :--- | :--- |
| 0 | 0 | Recital Class |
| 1 | 0 | Secondary Piano |
| 3 | 3 | Music Theory Lecture III-IV |
| 1 | 1 | Music Theory Lab III-IV |
| 1 | 1 | Found. In Funct. Musicianship I-II <br> 3 |
|  | 3 | Classroom Org. \& Management <br> Intro. to Exceptional Children |
|  | 0 | Praxis PPST Reading <br> Praxis PPST Writing |
| 3 | 0 | Praxis PPST Math <br> 3 |
| 18 | 14 | World Literature <br> U. S. History <br> University Requirement |
| 18 |  |  |

## SUMMER

## JUNIOR YEAR

All majors must have passed all parts of Praxis I and should have been accepted into the Teacher Education Program before taking junior-level education courses.

| Music (MUAP) Applied | 2 | 3 | Major Applied Study <br> Secondary Applied Study <br> Music (MUAP) Applied |
| :--- | :---: | :--- | :--- |
| Music (MUSM) 3010-4010 |  | 2 | Found. In Funct. Muscnship III-IV <br> Music (MUEN) 3910S-3920S or |
| Music (MUEN) 3310U-3330U |  |  |  |

## SUMMER

| Theology | 3 | Core Requirement |
| :--- | ---: | ---: |
| Social Sciences | 3 | Core Requirement |

## SENIOR YEAR

All majors must have passed a piano proficiency test and a conducting examination before they are permitted to so the student teaching internship.

| Music (MUAP) Applied | 3 | 2 | Major Applied Study |
| :---: | :---: | :---: | :---: |
| Music (MUAP) Applied | 1 |  | Secondary Applied Study |
| Music (MUEN) 4910S-4920S or | 1 | 1 | Ensemble: Symphonic Band |
| Music (MUEN) 4310U-4320U |  |  | Ensemble: University Chorus |
| Music (MURE) 4070A-4070B | 0 | 0 | Recital Class |
| Music (MUST) 3111 |  | 2 | Composition I |
| Education (EDUC) 4061 |  | 9 | Student Teaching |
| Education (EDUC) 4060S |  | 0 | Student Teaching Seminar |
| Education (EDSC) 4200 | 3 |  | Multicultural Education |
| Philosophy | 3 |  | Core Requirement |
| Theology | 3 |  | Core Requirement |

## SUMMARY

Semester Hours

## Semester Hours

| African American Studies | 3 | Music (History) | Semester Hours |
| :--- | ---: | :--- | ---: |
| English | 12 | Music (Musicianship) | 6 |
| Education | 29 | Natural Science | 26 |
| History | 6 | Philosophy | 6 |
| Integrated Physical Science | 6 | Physical Education | 6 |
| Mathematics | 6 | Social Sciences | 1 |
| Music (Applied) | 25 | Theology | 3 |
| Music (Ensembles) | 8 | Total Semester Hours | 6 |
| 149 |  |  |  |

# PROGRAM IN SOCIAL STUDIES EDUCATION (GRADES 6-12) 

History 1030-1040
Education (EDUC) 1000
English 1010-1020
Fine Arts
Foreign Language
Mathematics 1010-1020
Physical Education Political Science 1020
Speech Communication 1010
FRESHMAN YEAR
$\underset{1^{\text {st }}}{\text { Semester Hours }} \mathbf{2}^{\text {nd }}$
Semester Semester
$3 \quad 3 \quad$ World Civilizations
0 Teacher Prep
33 Comp \& Rhetoric/Comp \& Lit.

- 3 Core Requirement

33 Core Requirement
33 Modern Math/Basic Statistics
1 Activity Course
3 American Government Fundamentals of Public Speaking A\&S Requirement
Computer Competency Exam
University 1010-1020

| 3 <br> 0 <br> 0 |  |
| :---: | :---: |
| 16 | 18 |

Freshman Orientation

## SOPHOMORE YEAR

History 2010 - 2020
Education (EDUC) 2005R
Education (EDUC) 2005W
Education (EDUC) 2005M
Education (EDUC) 2044

Biology 1030/1030L
3
Biology 1040/1040L or 1050
Economics 2010-2020
English 2010-2020
Geography 1010
Political Science 1030 or 2040
Theology
Student Competency Exams

Philosophy
Sociology 1010

## SUMMER



Core Requirement
Introduction to Sociology

## JUNIOR YEAR

All majors must have passed all parts of Praxis I and should have been accepted into the Teacher Education Program before taking junior-level education courses.

Geography 2010 or 3010
History 3040
History 3350-3360
3
His $3350-3360 \longrightarrow 3$
History 3670
History 4415S
Education (EDUC) 3005L
Education (EDSP) 2040
3
Education (EDUC) 3040
Education (EDUC) 4090
African American Studies
Philosophy 2060 or 3250
Theology

Physical Geography or Regional Geog.
History of Louisiana
3 African American History
3 African History
3 Historiography
Praxis II: Princ. of Lear. \& Teach. Intro. to the Exceptional Child
Educational Psychology
3 Adolescent Psychology
3 Core Requirement
Envir. Phil. or Phil. of Science
Core Requirement

SENIOR YEAR
History Electives

Education (EDUC) 4200
Education (EDSC) 3023S
Education (EDUC) 4061T
Education (EDUC) 4060S
Education (EDSC) 4150
Education (EDUC) 4999
Free Electives

6
3
3 Special Methods: Teaching History and Social Studies
9 Student Teaching
0 Student Teaching Seminar Teaching Reading in Content Area Praxis II - Specialty

|  | SUMMARY |  |  |
| :--- | ---: | :--- | ---: |
|  | Semester Hours |  | Semester Hours |
| African American Studies | 3 | History | 33 |
| Biology | 6 | Mathematics | 6 |
| Economics | 6 | Philosophy | 6 |
| Education | 30 | Political Science | 6 |
| English | 12 | Sociology | 3 |
| Fine Arts | 3 | Speech Communication | 3 |
| Foreign Language | 6 | Theology | 6 |
| Geography | 6 | Free Electives | 3 |
| Health \& Physical Education | 1 | Total Semester Hours | 139 |

## GRADUATE EDUCATION PROGRAMS

The Graduate School offers course work for the Master's Degree in administration and supervision, counseling, and curriculum and instruction. Areas of specialization are listed below. Add on certification programs are offered in gifted education and educational technology facilitation. Programs are also offered for initial Louisiana teacher certification. The Practitioner Teacher Program is a fast track teacher certification program that can only be started during the summer session. It consists of graduate level coursework that can be used towards the Master of Arts in Teaching (MAT) degree. The MAT is a teacher certification program that can be completed at the candidate's own pace.

Both alternate routes in teacher certification require that potential candidates successfully pass all parts of Praxis I and the subject area Praxis II test. MAT candidates must also meet all graduate school admissions requirements.

1. Educational Administration and Supervision - Professional preparation in educational leadership is offered with specialization in the following areas:

- School Principalship
- Supervision of Instruction

2. Curriculum and Instruction - Professional preparation for leadership in curriculum and instruction is offered in the following specialized areas:

- Early Childhood Education
- Elementary Education
- Secondary Education
- Reading Specialist
- Special Education

3. Counseling - Professional preparation for counselors in school and post-secondary educational settings, as well as non-school agencies is offered. Counseling programs meet all requirements for state certification.

- School Counseling
- Mental Health Counseling


## TEACHER CERTIFICATION PROGRAMS

1. Practitioner Teacher Non-Degree Programs (18 hours)

- Special Education (Mild/Moderate)
- Secondary Education (Mathematics and Science)

2. MAT Degree Programs ( 36 hours)

- Elementary Education (Grades 1-5)
- Special Education (Mild/Moderate)
- Secondary Education (All secondary areas)


## CATHOLIC SCHOOL PRINCIPALSHIP DEVELOPMENT PROGRAM

A Catholic School Principalship Development Program is also offered. This program is open only to professional educators employed by a Catholic School and nominated to the Division of Education by the Superintendent of the Archdiocese of New Orleans. Its purpose is to develop selected Catholic School teachers into effective Catholic School administrators. A certificate of achievement is issued upon successful completion of the program.

## DEPARTMENT OF ENGLISH

English majors learn to reason effectively and to communicate well, both orally and in writing. Under the newly-revised English curriculum students will become even better prepared to pursue careers in education, law, government service, technical writing, journalism, public relations, business, and the corporate world. The graduating English major may enter a masters or Ph.D. program in English, Comparative Literature, African American Studies, Women's Studies, Cultural Studies, Diaspora Studies, creative writing, technical writing, linguistics, or in any of the humanities. Many of Xavier's English graduates have entered law or graduate school programs. Students electing English as a major must earn 42 semester hours of English, exclusive of English 1010-1020. (See course requirements below.) Majors are required to pass a senior comprehensive examination, and must attend all departmental meetings. In order for an English course to be counted for degree credit in English and in English/English Education, a student must earn a "C" or better.

All English courses reinforce the goals of the core curriculum and are writingintensive as defined by the Academic Council of the College of Arts and Sciences. The following courses are required for the B.A. in English: ENGL 1010-1020 (or 1023H), 2010 (or 2011 H ), 2070, 2080, 3160, 3170, 3400, one AFAM literature course ( 3185 or 3280 or 3290) one world literature course beyond 2010 ( 2020 or 3175 or 3275), one English literature pre-1800 (3010 or 3021 or 3070), one English literature course post1800 ( 3210 or 3221 or 3270 ), one advanced language/composition course ( 2200 or 3135 or 3150) and two 4000-level English seminars.

Minor in English - Students electing English as a minor must earn 24 hours in English, with 18 of these hours beyond ENGL 1010-1020. ENGL 2010 (2011H) and 2020 are required and count toward the 18 hours of the minor.

Honors in English - For initial placement in the Honors in English program, students must meet criteria that include ACT or SAT scores and high school transcript. The English Department determines final placement. To receive an honors distinction in English, students so chosen must take ENGL $1023 \mathrm{H}, 2011 \mathrm{H}$, and a 3000 or 4000 level English course of their choice and receive a cumulative average of 3.0 or higher for all three courses.

Students with Advanced Placement credit may take the sequence with ENGL 2011H and one more English course at the 3000 or 4000 level. A cumulative average of 3.0 or higher in these two courses will earn them Honors in English.

ENGL 1023 H and 2011 H satisfy the core curriculum requirements in English composition, introduction to literature, and world literature (the equivalent of ENGL 1010, 1020, and 2010). Upon receiving a grade of "C" or better in the Freshman Honors English Sequence (ENGL 1023H and 2011H), the student will receive 3 semester hours of credit for ENGL 1010. ENGL 1020 and 2010 cannot be substituted for the Freshman Honors English Sequence; if the student elects to take either of those, he/she forfeits his/her placement in the Honors sequence.

Students need not be placed in the Freshman English Honors Sequence outlined above to qualify for "Honors in English." Students majoring or minoring in English may also earn the honors distinction by completing their courses of study with a 3.5 cumulative average in English. At least eighteen semester hours of English must be earned at Xavier.

## MINOR IN CREATIVE WRITING

The Creative Writing program is committed to encouraging creative written expression. Through writing-intensive seminars and workshops, Creative Writing minors (1) develop their creative thinking and writing ability; (2) gain a greater sensitivity to language; (3) learn to offer and respond to constructive criticism; (4) learn to read literature in terms of craft and method; and (5) become familiar with contemporary authors.

These skills will serve students whether they pursue graduate school or careers immediately after graduation. Depending upon the student's major, the graduating Creative Writing minor's options may include pursuing a Master of Fine Arts in Creative Writing or a Doctorate in English, either of which would qualify them for careers in college teaching. Other career directions may include education, writing literature, magazine writing, publishing, journalism, languages, communications, business, and technical and scientific writing.

The minor in Creative Writing consists of eighteen (18) hours. Students completing this minor are required to take:

WRIT 1050 Introduction to Creative Writing
At least two of the following:
WRIT $2050 \quad$ Poetry Workshop
WRIT $2060 \quad$ Fiction Workshop
WRIT 2070 Literary Nonfiction Workshop
WRIT 2080 Dramatic Writing
At least one of the following:
WRIT $3060 \quad$ Special Topics
WRIT $4050 \quad$ Writing Seminar
WRIT 4060
Creative Thesis
WRIT/ENGL 2141, 2143 Journal Practicum also counts towards the minor.
Students may repeat any course, except WRIT 1050, one time.
A grade of "C" or better must be earned in all courses taken in the minor.

## PROGRAM IN ENGLISH <br> FRESHMAN YEAR

|  | Semester Hours |  |  |
| :---: | :---: | :---: | :---: |
|  | $1{ }^{\text {st }}$ | $2^{\text {nd }}$ |  |
|  | Semester | Seme |  |
| English 1010-1020 | 3 | 3 | Comp \& Rhetoric/Comp \& Lit. |
| Foreign Language | 3 | 3 | Core Requirement |
| History 1030-1040 | 3 | 3 | World Civilization |
| Mathematics 1010 | 3 |  | Modern Math |
| Philosophy |  | 3 | Core Requirement |
| Physical Education | 1 |  | Activity Course or Test |
| Speech Communication 1010 | 3 |  | Fundamentals of Public Speaking |
| Theology |  | 3 | Core Requirement |
| Computer Competency Exam | 0 |  | A\&S Requirement |
| University 1010-1020 | 0 | 0 | Freshman Orientation |
|  | 16 | 15 |  |

English 2010
English 2070-2080
English 2020 or Elective*
English 2200 or Elective**
African American Studies
Fine Arts
Natural Science
Philosophy
Student Competency Exams

## SOPHOMORE YEAR

| 3 | 3 | World Literature <br> 3 |
| :--- | :---: | :--- |
| 3 | 3 | British Literature <br> World Literature or Free/Minor* <br> Grammar or Free/Minor** <br> Core Requirement |
| 3 | 3 | Core Requirement <br> 3 |
| 15 | 15 | Core Requirement <br> Core Requirement <br> University Requirement |
| 15 |  |  |

*Students may take ENGL 2020 in the sophomore year or in the senior year they may take either 3175 or 3275.
**Students may take ENGL 2200 in the sophomore year or in the junior year they may take either 3135 or 3150 .

English 3160-3170
English 3010 or 3021 or 3070
English 3210 or 3221 or 3270
English 3185 or 3280 or 3290
English 3135 or 3150 or Elective***
Social Science
Theology
Electives

JUNIOR YEAR
33 Survey of American Literature
3 Pre-1800 English Literature
3 Post-1800 English Literature
3 African American Literature
3
33 Core Requirement
3 Core Requirement

| 3 | 3 |
| :---: | :---: |
| 15 | 18 |

***If a student has taken ENGL 2200, 3135 and/or 3150 need not be taken.

## SENIOR YEAR

| English 3400 | 3 |  | Critical Theory |
| :---: | :---: | :---: | :---: |
| English 3175 or 3275 or Elective ${ }^{* * * *}$ |  | 3 | World Literature/Free/Minor**** |
| English 4010 or 4020 or 4030 or |  |  |  |
| 4040 or 4050 | 3 | 3 | Seminar |
| English Elective | 3 |  |  |
| English 4999 |  | 0 | Senior Comprehensives |
| Electives | 9 | 10 | Free/Minor |
|  | 18 | 16 |  |

****If a student has taken ENGL 2020, 3175 and/or 3275 need not be taken.

## SUMMARY

## Semester Hours

Semester Hours
African American Studies 3
English 48
Fine Arts 3
Foreign Language 6
History 6
Mathematics 3
Natural Sciences 6
Philosophy 6

| Physical Education | 1 |
| :--- | ---: |
| Speech Communication | 3 |
| Social Sciences | 6 |
| Theology | 6 |
| Minor | 18 |
| Free Electives | 13 |
| Total Semester Hours | 128 |

## PROGRAM IN ENGLISH/ENGLISH EDUCATION

English/English Education majors should note that certification requirements are established by the Louisiana Department of Education and are subject to change. Students should consult their advisors each semester. Education majors should consult the Division of Education section in this catalog for requirements to be formally admitted into Xavier's Teacher Education Program.

English 1010-1020
Fine Arts
Foreign Language
History 1030-1040
Mathematics 1010-1020
Speech Communication 1010
Physical Education
Computer Competency Exam
University 1010-1020

English 2010-2020
English 2070-2080
English 2200
Education (EDUC) 2005R
Education (EDUC) 2005 W
Education (EDUC) 2005M
Education (EDUC) 2044
Natural Science
Philosophy
Social Sciences
Theology*
Free Electives
Student Competency Exam

## FRESHMAN YEAR


$1^{\text {st }} \quad 2^{\text {nd }}$

Semester Semester
$3 \quad 3 \quad$ Comp \& Rhet. /Comp Lit.
3 Core Requirement
33 Core Requirement
33 World Civilizations
33 Modern Math/Basic Statistics
3 Fundamentals of Public Speaking
1 Core Requirement
$0 \quad$ A\&S Requirement

| 0 | 0 | Freshman Orientation |
| :---: | :---: | :---: |
| 16 | 15 |  |

## SOPHOMORE YEAR

| 3 | 3 | World Literature <br> 3 |
| :--- | :---: | :--- |
| 3 | 3 | British Literature <br> Modern English Grammars <br> Praxis PPST Reading |
|  | 0 | Praxis PPST Writing |
|  | 0 | Praxis PPST Math <br> 3 |
|  | 3 | Classroom Org. \& Management <br> Core Requirement <br> 3 |
| 3 | 3 | Core Requirement <br> Core Requirement <br> Core Requirement <br> Core Requirement |
|  | 1 | University Requirement |
| 18 | 16 |  |

SUMMER
Theology**
Free Electives

Core Requirement
Core Requirement

[^16]
## JUNIOR YEAR

All majors must have passed all parts of Praxis I and should have been accepted into the Teacher Education Program before taking junior-level education courses.

| English 3040 or 3050 | 3 |  | Shakespeare <br> English 3160-3170 |
| :--- | :---: | :---: | :--- |
| English 3310 | 3 | 3 | American Literature <br> Rhet., Comp. \& Tching of Writing <br> English 3320 |
| English Elective*** | 3 | 3 | Critical App. to Teaching Lit. |
| Education (EDSP) 2040 |  | 3 |  |
| Introduction to Exceptional Chil. |  |  |  |
| Education (EDUC) 3005L |  | 0 | Praxis II: Princ. of Lear. \& Teach. <br> Education (EDUC) 3040 |
| Educational Psychology   <br> African American Studies  3Core Requirement |  |  |  |
| Philosophy 3250 |  | 3 | Philosophy of Science |

***Students must take 3 hours (a total of 6) from two of the following groups: (1) Engl 3185, 3280, 3290; (2) ENGL 3010, 3021, 3970; (3) ENGL 3210, 3221, 3270.
English 4010/4020/4030/4040/4050
English 3135
English Elective
English 4999
Education (EDSC) 4061T
Education (EDUC) 4060S
Education (EDUC) 4090
Education (EDUC) 4200

SENIOR YEAR
English 4010/4020/4030/4040/4050
English 3135

| 3 | 3 | Seminar |
| :---: | :---: | :--- |
| 3 |  | Language: History \& Theory |
| 3 |  |  |
|  | 0 | Senior Comprehensives |
|  | 9 | Student Teaching |
|  | 0 | Student Teaching Seminar |
| 3 |  | Adolescent Psychology |
| 3 |  | Multicultural Education |
| 15 | 12 |  |

## SUMMARY

## Semester Hours

Semester Hours

| African American Studies | 3 | Natural Science | 6 |
| :--- | ---: | :--- | ---: |
| Education | 24 | Philosophy | 6 |
| English | 52 | Physical Education | 1 |
| Fine Arts | 3 | Social Sciences | 3 |
| Foreign Language | 6 | Speech Communication | 3 |
| History | 6 | Theology**** | 6 |
| Mathematics | 6 | Free Electives | 4 |
|  |  | Total Semester Hours | 131 |

$\overline{* * * * S t u d e n t s}$ must take either Theology 1100 or 1120 , and one of the following: THEO 2002, $2021,2022,2100,2200,2410,2440,2600,3060,3200,3300,3370,3800,38750$ to fulfill the Theology requirement.

## DEPARTMENT OF HISTORY

The Department of History is dedicated to the humanistic study of the past for a better understanding of the present. This discipline requires the ability to analyze complex issues, events and ideas. The history major also requires skill in written expression.

In addition to satisfying the goals of the Core Curriculum, the program in history equips students with a broad historical background and intellectual skills needed in a wide variety of professions, including those in government service, law, business, museum and archival careers, college teaching and professional research.

Students who major in history must earn 30 hours in history, exclusive of the core requirements of HIST 1030-1040 and African American Studies. Of these 30 hours, the following are required: HIST 2010, 2020, 2415, and 4415S. Of the remaining eighteen hours, fifteen hours must be at the 3000-4000 level and must include three hours in African American history, three hours in United States history, three hours in European history, and three hours in Developing World history. At least one of these courses must be at the 4000 level. In addition, all majors are required to pass the department's comprehensive examination and attend monthly departmental meetings. No grade lower than a "C" in any of the departmental offerings may be applied for credit in the major.

Minor in History - Students who select a minor in history must earn 21 hours in history. Required courses are HIST 1030-1040 and 2010-2020. The additional 9 semester hours must include at least 3 semester hours at the 3000-4000 level. No grade lower than a "C" in any of the departmental offerings may be applied for credit in the minor.

Students majoring in Social Studies Education must earn 27 hours in history exclusive of the core requirements of HIST 1030-1040 and AFAM Studies. The following are required: HIST 2010, 2020, 3040, 3350, 3360, 3670, and 4415S. The remaining six hours in history must be selected from 3000-4000 level courses.

Social Studies Education majors are required to achieve an acceptable score (determined by the Louisiana Department of Education) on all parts of the Praxis, including Praxis II: Specialty Area Test, in order to graduate. They are not required to take the department's comprehensive examination in history.

Honors in History - Students selected by the placement process of the Admissions Office to take HIST $1031 \mathrm{H}-\mathrm{HIST} 1041 \mathrm{H}$ may graduate with honors in history designation on their transcripts if they take these courses and an additional history course at the 3000 or 4000 level. Students must earn a grade of at least a " $B$ " in all three courses.

# PROGRAM IN HISTORY 

FRESHMAN YEAR

## $\underset{1^{\text {st }}}{\text { Semester Hours }} \mathbf{2}^{\text {nd }}$

History 1030-1040(or $1031 \mathrm{H}-1041 \mathrm{H})$
Semester Semester
English 1010-1020
Mathematics
Foreign Language
Physical Education
Social Sciences*
Speech Communication 1010
Computer Competency Exam
University 1010-1020
33 World Civilizations

33 Comp \& Rhetoric/Comp \& Lit.
3 Core Requirement

| 3 | 3 | Core Requirement |
| :--- | :--- | :--- |
| 3 | 1 | Activity Course or Test |
|  | 3 | Core Requirement |
| 0 | 3 | Fundamentals of Public Speaking |
| 0 | 0 | A\&S Requirement |
|  | Freshman Orientation |  |
| 15 | 16 |  |

*Course to be chosen from ECON 1030, PSCI 1010, PSCI 1020, PSYC 1010, or SOCI 1010. Students who wish to take ECON 2010, or ECON 2020 will substitute a 1000 -level social science course in the freshman year and take the higher level course in the sophomore year.

History 2010-2020
History 2415
English 2010-2020
Fine Arts
Natural Science
Philosophy
Minor
Student Competency Exams

History Electives
African American Studies
Philosophy
Social Science
Theology
Minor
Free Electives

History 4415S
History Electives
History 4999
Minor
Free Electives

## SOPHOMORE YEAR

| 3 | 3 | United States History |
| :--- | :--- | :--- |
| 3 |  | Intro. to Historical Research \& Writing |
| 3 | 3 | Worrd Literature |
|  | 3 | Core Requirement |
| 3 | 3 | Core Requirement |
| 3 | 3 | Core Requirement |
|  | 3 |  |
| 15 | 0 | University Requirement |

## JUNIOR YEAR

| 6 | 6 | History electives <br> 3 |
| :---: | :---: | :--- |
| 3 |  | Core Requirement <br> Core Requirement <br> 3 |
| 3 | 3 | Social Science elective |
| 3 | 3 | Core Requirement |
|  | 3 |  |
| 18 | 18 |  |

## SENIOR YEAR

| 3 | 3 | Seminar in Historical Research |
| :---: | :---: | :--- |
| 0 | 3 |  |
| 6 |  | Senior Comprehensives |
| 6 | 7 |  |
| 15 | 13 |  |

## SUMMARY

## Semester Hours

## Semester Hours

| African American Studies | 3 |
| :--- | ---: |
| English | 12 |
| Fine Arts | 3 |
| Foreign Language | 6 |
| History | 36 |
| Mathematics | 3 |
| Natural Sciences | 6 |
| Philosophy | 6 |

Physical Education ..... 1
Speech ..... 3
Social Sciences ..... 9
Theology ..... 6
Minor ..... 18
Free Electives ..... $\begin{array}{r}16 \\ \hline 128\end{array}$

## PROGRAM IN SOCIAL STUDIES EDUCATION

Social Studies Education majors should note that certification requirements are established by the Louisiana Department of Education and are subject to change. Students should consult their advisors each semester. Education majors should consult the Division of Education section in this catalog for requirements to be formally admitted into Xavier's Teacher Education Program.

## PROGRAM IN SOCIAL STUDIES EDUCATION

| FRESHMAN YEAR Semester Hours |  |  |  |
| :---: | :---: | :---: | :---: |
| History 1030-1040 (or $1031 \mathrm{H}-1041 \mathrm{H}$ ) | 3 | 3 | World Civilizations |
| Education (EDUC) 1000 |  | 0 | Teacher Prep |
| English 1010-1020 | 3 | 3 | Comp \& Rhetoric/Comp \& Lit. |
| Fine Arts |  | 3 | Core Requirement |
| Foreign Language | 3 | 3 | Core Requirement |
| Mathematics 1010-1020 | 3 | 3 | Modern Math/Basic Statistics |
| Physical Education | 1 |  | Activity Course |
| Political Science 1020 |  | 3 | American Government |
| Speech Communication 1010 | 3 |  | Fundamentals of Public Speaking |
| Computer Competency Exam | 0 |  | A\&S Requirement |
| University 1010-1020 | 0 | 0 | Freshman Orientation |
|  | 16 | 18 |  |
| SOPHOMORE YEAR |  |  |  |
| History 2010 - 2020 | 3 | 3 | U. S. History |
| Education (EDUC) 2005R |  | 0 | Praxis PPST Reading |
| Education (EDUC) 2005W |  | 0 | Praxis PPST Writing |
| Education (EDUC) 2005M |  | 0 | Praxis PPST Math |
| Education (EDUC) 2044 |  | 3 | Classroom Management |
| Biology 1030/1030L | 3 |  | General Biology |
| Biology 1040/1040L or 1050 |  | 3 | General Biology or Env. Biology |
| Economics 2010-2020 | 3 | 3 | Microeconomics-Macroeconomics |
| English 2010-2020 | 3 | 3 | World Literature |
| Geography 1010 | 3 |  | World Geography |
| Political Science 1030 or 2040 | 3 |  | Comp. Politics or Int. Relations |
| Theology |  | 3 | Core Requirement |
| Student Competency Exams |  | 0 | University Requirement |
|  | 18 | 18 |  |
| SUMMER |  |  |  |
| Philosophy | 3 |  | Core Requirement |
| Sociology 1010 | 3 |  | Introduction to Sociology |
|  | 6 |  |  |

## JUNIOR YEAR

All majors must have passed all parts of Praxis I and should have been accepted into the Teacher Education Program before taking junior-level education courses.

Geography 2010 or 3010
History 3040
History 3350-3360 3
History 3670
History 4415S
Education (EDUC) 3005L
3
3
3

Education (EDSP) 2040
Education (EDUC) 30400

Education (EDUC) 4090
African American Studies
Philosophy 2060 or 3250
Theology

| 3 | 3 |
| :---: | :---: |
| 18 | 18 |

Physical Geography or Regional Geog. History of Louisiana
3 African American History
3 History of Africa
3 Seminar in Historical Research Praxis II: Princ. of Lear. \& Teach. Intro. to the Exceptional Child Educational Psychology
3 Adolescent Psychology
3 Core Requirement
Envir. Phil. or Phil. of Science Core Requirement

## SENIOR YEAR

History Electives
Education (EDUC) 4200
Education (EDSC) 3023S
Education (EDUC) 4061T
Education (EDUC) 4060S
Education (EDSC) 4150
Education (EDUC) 4999
Free Electives

3000-4000 Level History Courses Multicultural Education Special Methods: Teaching History and Social Studies
9 Student Teaching
0 Student Teaching Seminar Teaching Reading in Content Area Praxis II - Specialty

## SUMMARY

## Semester Hours

## Semester Hours

African American Studies 3
Biology 6
Economics 6
Education 30
English 12
Fine Arts 3
Foreign Language 6
Geography 6
Health \& Physical Education 1
History ..... 33
Mathematics ..... 6
Philosophy ..... 6
Political Science ..... 6
Sociology ..... 3
Speech Communication ..... 3
Theology ..... 6
Free Electives ..... 3
Total Semester Hours ..... 139

## DEPARTMENT OF LANGUAGES

Language is the gatekeeper and conveyor of culture. Recognizing this essential relationship between language and culture, the Department of Languages seeks to infuse its courses with significant cultural information.

The Department of Languages contributes to a heightened sense of world citizenship and global community within the Xavier family and assists in the development of the language and cultural skills necessary for graduates to function effectively in intercultural and international work environments. The curriculum is proficiencybased (the acquisition of the four primary skills in the target language: comprehension, speaking or signing, reading, and writing), and emphasizes an understanding of the target culture. The language curriculum affirms the crucial role of literature in developing critical thinking skills and in providing insight into culture and the transmission of societal values.

Students receive instruction in the diverse cultures expressed by their languages of choice. The Department of Languages is committed to teaching the international significance of French, Spanish, and German and stresses their importance as bases for communication by peoples of color.

The Core Curriculum requires that most students earn six semester hours in one language other than English. Since the choice of a language is closely tied to personal career goals and inclinations, the language faculty is prepared upon request to assist in the selection of that language. Students who have prior preparation in a language and who wish to continue study of the same language have several placement options: (1) Advanced Placement (AP) credit from high school (3-6 hours); and (2) CLEP credit (6 hours). Students with six hours of AP or CLEP credits may use these credits as electives or to meet the core requirement as well as for placement in upper level language courses. Students with three or more years of a language in high school may enroll in the 1010-1020 sequence of that language for credit only with permission of the discipline chair and the language chair or may enroll in the 1010-1020 sequence in a different language.

Instructors in the Department of Languages are committed to the incorporation of instructional technology, experiential learning, and inter-departmental collaboration. Increasing use of the Internet, both in the classroom and in laboratory assignments, makes available the world-wide resources of technology. By taking advantage of the many cultural resources of New Orleans and south Louisiana, students can participate in multicultural learning experiences involving language practice.

Language majors and minors have access to summer, semester, and year-abroad international study through the Center for International and Intercultural Programs (CIIP). Most upper-level students in the department earn part of their required credits through immersion study in a country where their language of choice is spoken. These students return to Xavier with advanced-level language skills, as determined by the Oral Proficiency Interview (OPI) examination developed by the American Council of Teachers of Foreign Languages (ACTFL).

The Department of Languages offers majors and minors in French and Spanish, and a minor in German. The major requires 30 semester credit hours in the target language beyond 1010-1020 and two credit hours of Language Seminar, all with a grade of "C" or higher. Coursework may be taken through study abroad. Eighteen hours of major courses and 12 hours of minor courses must be completed at Xavier, unless the student obtains permission from the department chair and the Dean of the College of Arts and Sciences. Majors are required to pass a comprehensive examination in the target language and attend all departmental meetings. Minors are required to complete 18 hours of courses in one language, six hours of which must be at the 3000 level or above. Students desiring a double concentration in languages may complete 12 hours
each in two languages. Students may opt to select French or Spanish as a second or double major; German is an option for a minor or concentration.

Instruction is also available at Xavier in American Sign Language, and Latin. Through the consortium arrangement with Loyola, students may enroll in Japanese courses. Study abroad programs are available to students through the Center for International and Intercultural Studies.

Careers entered by language alumni are interdisciplinary in scope and include teaching languages at every level, the Foreign Service, law, international relations, translation and interpretation, tourism and travel.

## PLACEMENT POLICY

A student who has completed three or more years of language study from the ninth through the twelfth grades may enroll in the 1020 level of the same language. After satisfactorily completing 1020 with a grade of "C" or better, the student will receive credit for the 1010 course as well. If the student wishes to request placement in 2010, the department chair will make this decision in consultation with another faculty member who teaches the language in question.

In some cases, a student with extensive previous training in the target language may be placed directly in the 2010 level. This student will receive credit for 1020, rather than 1010 , after completing 2010 with a grade of " C " or better. The decision to place a student with previous training in 2010, rather than the 1020 level, will be made during the week prior to registration by the department chair in consultation with the instructor responsible for the 2010 class. Some students who have more extensive backgrounds or short-term study abroad may enroll in 2020 and receive placement credit for 2010.

In very rare cases, a student may be qualified to enroll directly in the 3000 level. This student is usually either a native speaker or one with study abroad experience. In such cases, if the student completes the 3000 level course with a grade of " C " or better, credit will be given for the 2020 class.

The Department of Languages recognizes that a student may be capable of entering the 1020 level after having studied his/her target language for two years. Any student considering this option will be encouraged to consult with the chair of the department, who will arrange for an evaluation interview in order to make the placement decision. If the student is admitted directly to the 1020 level, credit for 1010 would be granted after successful completion of 1020 with a grade of "C" or better.

\author{

PROGRAM IN FRENCH OR SPANISH FRESHMAN YEAR <br> | Semester Hours |  |
| :---: | :---: |
| $\mathbf{1}^{\text {st }}$ | $\mathbf{2}^{\text {nd }}$ |
| Semester | Semester |

}

Language $\begin{gathered}\text { 1010-1020 } \\ \text { 2010-2020 }\end{gathered}$
English 1010-1020
Mathematics Electives
Social Sciences
Speech Communication 1010
Physical Education
Theology
Computer Competency Exam
University 1010-1020

| 3 | 3 | Elementary or Intermediate |
| :---: | :---: | :--- |
| 3 | 3 | Comp \& Rhetoric/Comp \& Lit. |
| 3 | 3 | Core Requirement/Elective |
| 3 | 3 | Core Requirement |
| 3 |  | Fundamentals of Public Speaking <br> Activity Course or Test |
|  | 1 | Core Requirement |
| 0 | 3 | A\&S Requirement |
| 0 | 0 | Freshman Orientation |
| 15 | 16 |  |

## SOPHOMORE YEAR

Language 2010-2020 or 3001-3002
African American Studies
English 2010-2020
Fine Arts
Natural Science
Philosophy
Theology
Minor
Student Competency Exams

Language 3001-3002
or 3011-3012
Language 3011-3012
or Free Elective
History 1030-1040
Philosophy
Minor
Free Electives

Language 4053
Language 4050 or Language Elective
Language Elective
Language 4999
Minor
Free Electives
SENIOR YEAR

| 3 |  | I |
| :---: | :---: | :---: |
| 3 | 3 | I |
|  | 3 | L |
| 3 | 3 | S |
| 7 | 3 |  |
| 16 | 12 |  |

## SUMMARY

## Semester Hours

## African American Studies <br> 3

English 12
Fine Arts 3
Language 30/36
History
Mathematics 6
Natural Sciences 6
Philosophy
6

## Semester Hours

# PROGRAM IN FOREIGN LANGUAGE EDUCATION (FRENCH OR SPANISH EDUCATION) 

French or Spanish Education majors should note that certification requirements are established by the Louisiana Department of Education and are subject to change. Students should consult their advisors each semester. Education majors should consult the Division of Education section in this catalog for requirements to be formally admitted into Xavier's Teacher Education Program.

Language 1010-1020, 1020-2010, or 2010-2020
Education (EDUC) 1100
English 1010-1020
Biology 1030/1030L-1040/1040L
Physical Education
FRESHMAN YEAR

Mathematics 1010-1020
Speech Communication 1010
Social Sciences
Computer Competency Exam
University 1010-1020

| Semester Hours |  |  |
| :---: | :---: | :---: |
| $1^{\text {st }} \quad 2^{\text {nd }}$ |  |  |
| Semester | Semester |  |
| 3 | 3 | Elementary or Intermediate (French/Spanish) |
| 3 |  | Instructional Technology |
| 3 | 3 | Comp \& Rhet. /Comp Lit. |
| 3 | 3 | General Biology |
| 1 |  | Core Requirement |
| 3 | 3 | Modern Math/Basic Statistics |
|  | 3 | Fundamentals of Public Speaking |
|  | 3 | Core Requirement |
| 0 |  | A\&S Requirement |
| 0 | 0 | Freshman Orientation |
| 16 | 18 |  |

## SOPHOMORE YEAR

Language 2010-2020, 3010-3020, or 2020-3 hr. 3000-level course
Education (EDUC) 2005R
33 Interm. (Fren/Span), Gram-Comp, or Interm II-3000-level course

Education (EDUC) 2005W
0 Praxis PPST Reading
Education (EDUC) 2005M
$0 \quad$ Praxis PPST Writing
Education (EDSP) 2040
3
African American Studies
English 2010-2020
Intro. to Exceptional Children

History 1030-1040
Requirement
3
Integrated Physical Science 2010
Philosophy
Theology
Student Competency Exam

| 3 | 3 | Interm. (Fren/Span), Gram-Comp, or <br> Interm II-3000-level course |
| :--- | :--- | :--- |
|  | 0 | Praxis PPST Reading |
|  | 0 | Praxis PPST Writing |
| 3 | 0 | Praxis PPST Math |
|  | 3 | Intro. to Exceptional Children |
| 3 | 3 | Core Requirement |
| 3 | 3 | World Literature |
|  | 3 | Western Civilizations |
| 3 | 3 | Core Requirement |
|  | 0 | Core Requirement |
|  | 18 |  |

JUNIOR YEAR
All majors must have passed all parts of Praxis I and should have been accepted into the Teacher Education Program before taking junior-level education courses.

THE FOLLOWING JUNIOR YEAR CURRICULUM IS REQUIRED FOR ALL FRENCH EDUCATION MAJORS. SPANISH EDUCATION MAJORS MAY ALSO OPT FOR THIS JUNIOR YEAR CURRICULUM.

| Language (See Advisor) | 12 |  |
| :--- | :---: | :---: |
| Language 4050 or 4051 |  | 3 |
| Education (EDUC) 3005L |  | 0 |
| Education (EDUC) 3040 |  | 3 |
| Fine Arts |  | 3 |
| Integrated Physical Science 2020 |  | 3 |
| Philosophy | 3 |  |
| Theology |  | 3 |
| Free Elective | 3 |  |

Study Abroad
Internship or Special Topics
Praxis II: Princ. of Lear. \& Teach.
Educational Psychology
Core Requirement
Earth Science
Core Requirement
Core Requirement
Core Requirement

THE FOLLOWING JUNIOR YEAR CURRICULUM IS FOR SPANISH EDUCATION MAJORS WHO DO NOT ELECT THE STUDY ABROAD OPTION ABOVE.

| Language 3001-3002 or Elective | 3 | 3 | Grammar/Comp. Or Elective <br> Language 3011-3012 or Elective |
| :--- | :---: | :---: | :--- |
| Language 4051 or 4052 |  |  |  |

Language 4080
Language 4052 or 4033
Language Elective
Language 4999
Education (EDUC) 2044
Education (EDUC) 4061T
Education (EDUC) 4060S
Education (EDUC) 4090
Education (EDUC) 4200
Education (EDUC) 4999
Social Sciences

## SENIOR YEAR

| 3 |  | Language Teaching Methodology |
| :---: | :--- | :--- |
| 3 |  | Special Topics or Directed Rdngs |
| 3 |  | Language Elective |
| 0 |  | Senior Comprehensives <br> Classroom Org. \& Management |
| 3 | 9 | Student Teaching <br> Student Teaching Seminar |
| 3 | 0 | Adolescent Psychology <br> Multicultural Education <br> Senior Comprehensives <br> Core Requirement |
| 18 | 0 |  |

## SUMMARY

## Semester Hours

## Semester Hours

African American Studies 3
Biology 6
Education 27
English 12
Fine Arts 3
Physical Education 1
History 6
Integrated Physical Science 6

Languages 36
Mathematics 6
Philosophy 6
Social Sciences 6
Speech Communication 3
Theology 6
Free Electives $\quad 3$
Total Semester Hours 130

## DEPARTMENT OF MATHEMATICS

The Department of Mathematics offers three majors:

Mathematics<br>Mathematics Education<br>Statistics

The Mathematics major has been designed to accommodate a wide variety of career options and to encourage students to pursue a second area of interest by means of a double major, a double minor, or a combination of concentrations. A major in Mathematics coupled with a strong minor in accounting, biology, business, chemistry, computer science, economics, physics, psychology, or sociology fits one for a number of career choices as well as for graduate school. Mathematics majors take 42 semester hours of mathematics, 3 semester hours of statistics, and 6 semester hours of computer science.

The Mathematics Education degree fulfills all the requirements for a state teaching certificate in addition to providing a strong background in mathematics. Students who choose this major are well-prepared either to enter the teaching field immediately upon graduation or to go to graduate school. Mathematics Education majors take 31 semester hours of mathematics, 33 semester hours of education, 3 semester hours of statistics, and 3 semester hours of computer science. In addition, the program provides graduates with certification in one of the following secondary teaching areas: Biology, Chemistry, or Physics.

The Statistics degree is offered in cooperation with the Louisiana State University Health Science Center in New Orleans (LSUHSC). The Statistics program offers Xavier students the opportunity to obtain both a B.S. degree from Xavier in Statistics and an M.S. degree in biostatistics from LSUHSC in five years. This program contains 27 semester hours of mathematics, 59 semester hours of statistics, and 3 semester hours of computer science. Forty-four (44) of these 59 hours in statistics are taken at LSUHSC and are credited toward both the B.S. degree in statistics at Xavier and the M.S. degree from LSUHSC (See the policies for this program below.)

During the senior year, students in each major must pass a written comprehensive examination. For Mathematics and Mathematics Education majors, the examination covers mathematics courses required in the programs; for Statistics majors, the examination covers mathematics and statistics courses required by the program and taken on Xavier's campus.

In order for a mathematics or statistics course to be counted for degree credit, students must earn a " C " or better. Furthermore, all students in these programs are required to attend all departmental meetings.

Minor in Mathematics -- The minor in mathematics consists of eighteen (18) semester hours of mathematics of which at least 8 must be at the 2000 -level or above. The calculus sequence (MATH 1070-2070-2080) is strongly recommended as part of the minor program. Students planning to minor in mathematics should be advised by the mathematics chairperson or a faculty member whom the chair designates as well as by their primary academic advisor.

Honors in Mathematics -- For placement in the Honors in Mathematics Program, students should apply to the Mathematics Department. To receive the distinction "Honors in Mathematics," students must satisfy one of the following two criteria:
3. Students must take MATH 1070 H and MATH 2070 H and at least four (4) additional hours of mathematics or statistics at the 2000 level or above. Examples of additional course work that satisfy these requirements are third semester calculus (MATH 2080); basic statistics with a technology lab (STAT 2010 and STAT 2150L); MATH 2030 or MATH 2530 or MATH 2050 together with a technology lab (MATH 2160L), or the two semesters of seminar (MATH 2511S and MATH 2521S). Students must receive a cumulative grade point average of 3.3 or higher in all mathematics and statistics courses taken with no grade of "C" or below.
4. Students must take MATH 1070 (or MATH 1070H) and MATH 2070, and at least six (6) additional hours of mathematics or statistics at the 2000 level or above. Students must receive a cumulative grade point average of 3.3 or higher in all mathematics and statistics courses taken with no grade of " C " or below.

Policies for the Joint XU/ LSUHSC Statistics Program-- The following policies apply to the statistics major:

1. Xavier students having at least a 3.0 GPA in mathematics and statistics courses listed in the first three years of the program and having an overall GPA of at least 2.5 are eligible, upon approval of the LSUHSC Department of Biometry and Genetics, for admission at LSUHSC to those courses listed in the fourth year of the program.
2. During the fourth year of the program, students will register at both LSUHSC and Xavier. In addition to their Xavier courses,
a. In the fall semester, students will register at Xavier for 9 semester hours of courses to be taken at LSUHSC, and
b. In the spring semester, students will register at Xavier for 6 semester hours of courses to be taken at LSUHSC. These students will be considered fulltime students at Xavier and pay full Xavier tuition. At LSUHSC, the students will be considered special students and pay no additional tuition. (LSUHSC will bill Xavier directly for the LSUHSC courses in which the students are enrolled.)
3. To graduate from Xavier at the end of the fourth year of this program with a B.S. in Statistics, students must:
a. Maintain at least a "C" grade in each of the courses taken at LSUHSC;
b. Pass a comprehensive examination covering mathematics and statistics courses taken at Xavier; and,
c. Satisfy all other Xavier University general degree requirements.
4. Admission as a regular graduate student at LSUHSC in the fifth year of this program is contingent upon approval of the Department of Biometry and Genetics at LSUHSC.
5. To graduate from LSUHSC with an M.S. degree from the Department of Biometry and Genetics, students must:
a. Maintain at least a "B" average at LSUHSC;
b. Make an acceptable score on the Graduate Record Examination which must be taken prior to the fifth year of the program; and,
c. Satisfy all other regular requirements of the LSUHSC School of Graduate Studies and the Department of Biometry and Genetics.

# PROGRAM IN MATHEMATICS 

FRESHMAN YEAR
Semester Hours
$1^{\text {st }} \quad 2^{\text {nd }}$
Semester Semester
Mathematics 1070-2070
Mathematics 2550
Computer Science 1710/1710D 1720/1720D
English 1010-1020
Philosophy 2040
Speech Communication 1010
Physical Education
Social Science
Computer Competency Exam
University 1010-1020

Mathematics 2080
Mathematics 2030
Mathematics 2530
Mathematics 2560
Statistics 2010
African American Studies
English 2010
Foreign Language
Social Science
$4 \quad 4 \quad$ Intro. Calculus/Calculus II 3 Discrete Structures I

3/0 $\quad 3 / 0 \quad$ Computer Science I \& II
33 Comp and Rhetoric/Comp \& Lit.
3 Logic
3 Fundamentals of Public Speaking
1 Activity Course or Test
Core Requirement

| 3 |  | Core Requirement |
| :---: | :---: | :---: |
| 0 |  | A\&S Requirement |
| 0 | 0 | Freshman Orientation |
| 16 | 17 |  |

## SOPHOMORE YEAR

| 4 |  | Calculus III |
| :---: | :---: | :---: |
| 3 |  | Linear Algebra |
|  | 3 | Differential Equations |
| 3 |  | Discrete Structures II |
|  | 3 | Statistical Methods I |
|  | 3 | Core Requirement |
| 3 |  | World Literature I |
| 3 | 3 | Core Requirement |
|  | 3 | Core Requirement |
|  | 3 |  |
|  | 0 | University Requirement |
| 16 | 18 |  |
| JUNIOR |  |  |
|  | 1 | Math/Stat Technology Lab |
| 3 | 3 | Advanced Calculus |
|  | 3 |  |
| 3 | 3 | World Civilizations |
|  | 3 | Recommended: Bus. Ethics or Philosophy of Science |
| 3 | 3 | Core Requirement |
| 3 |  | Core Requirement |
| 6 | 2 |  |
| 18 | 18 |  |

## SENIOR YEAR

Mathematics 4095/4095D
Mathematics Elective

| $3 / 0$ |  |
| :---: | :---: |
| 1 | 3 |
| 3 | 0 |
|  | 3 |
| 6 | 3 |
| 3 | 3 |
| 16 | 13 |

## Abstract Algebra

Colloquium
Senior Comprehensives
Core Requirement
Core Requirement
Mathematics 4511-4521
Mathematics 4999
Fine Arts
Theology
Minor
Free Electives

[^17]| African American Studies | 3 | Philosophy | 6 |
| :--- | ---: | :--- | ---: |
| Computer Science | 6 | Physical Education | 1 |
| English | 9 | Social Sciences | 6 |
| Fine Arts | 3 | Speech Communication | 3 |
| Foreign Language | 6 | Statistics | 3 |
| History | 6 | Theology | 6 |
| Mathematics | 42 | Minor | $18^{*}$ |
| Natural Science | 6 | Free Electives | 8 |
|  |  | Total Semester Hours | 132 |

*These hours are to be used by the student to help fulfill the requirement for a minor. For some choices of a minor, like Computer Science, only 12 of these 18 hours will be needed since 6 hours are already listed as a requirement. In such a case, the other 6 hours will be free electives.

Mathematics 1070-2070
Mathematics 2550
Computer Science 1710/1710D
English 1010-1020
Philosophy 2040
Physical Education
Social Science
Speech Communication 1010
Theology
Computer Competency Exam
University 1010-1020

Statistics 2010-2020
Mathematics 2080
Mathematics 2030
Mathematics 2530
Mathematics 2560
African American Studies
Biology 1230/1230L 1240/1240L
English 2010
Student Competency Exams

Statistics 2150L
Statistics 3010
Statistics 3051-3061
Statistics 4511-4521
Mathematics 3040
Fine Arts
Foreign Language
History 1030-1040
Social Science
Free Elective

## PROGRAM IN STATISTICS

FRESHMAN YEAR
Semester Hours $\mathbf{1}^{\text {st }} \quad$ 2nd

Semester Semester
$4 \quad 4 \quad$ Intro. Calculus/ Calculus II
3 Discrete Structures I
$3 / 0 \quad 3 \quad$ Computer Science I
33 Comp and Rhetoric/Comp \& Lit
3 Logic
1 Activity Course or Test
3 Core Requirement
3 Fundamentals of Public Speaking
3 Core Requirement
A\&S Requirement

| 0 |  | A\&S Requirement <br> 0 |
| :---: | :---: | :---: |
| 17 | 16 | Freshman Orientation |

## SOPHOMORE YEAR

| 3 | 3 | Statistical Methods I \& II <br> 4 |
| :--- | :---: | :--- |
| 3 | 3 | Calculus III <br> Linear Algebra <br> Differential Equations |
| 4 | 3 | Discrete Structures II <br> Core Requirement |
| 3 | 4 | General Biology <br> World Literature I <br> University Requirement |
| 17 | 16 |  |

## JUNIOR YEAR

|  | 1 | Statistics Technology Lab <br> 3 |
| :---: | :---: | :--- |
| 3 | 3 | Biostatistics |
| Mathematical Statistics |  |  |
| 1 | 1 | Colloquium |
| 3 | 3 | Numerical Analysis |
| 3 |  | Core Requirement |
| 3 | 3 | Core Requirement |
|  | 3 | World Civilizations |
| 2 |  |  |
| 18 | 17 |  |

Statistics 4999
Philosophy 2400
Theology
LSUHSC: BIOS 6221-6222
LSUHSC: BIOS 6223-6224
LSUHSC: BIOS 6264
LSUHSC: EPID 6210
LSUHSC: INT 220
LSUHSC: INT 260
Free Electives

SENIOR YEAR
0 Senior Comprehensives Health Ethics
3 Core Requirement
3 Biostatistical Methods I \& II
3 Probability and Math. Stat. I \& II
3 Clinical Trials and Sequential Meth. Principles of Epidemiology Ethics in Biomedical Sciences Responsible Conduct of Research

## SUMMARY of B.S. PROGRAM AT XAVIER Semester Hours

## African American Studies 3

Biology 8
Computer Science 3
English 9
Epidemiology 3
Ethics 2
Fine Arts 3
Foreign Language 6
History 6
Mathematics 27
Philosophy 6
Physical Education 1
Social Sciences 6
Speech Communication 3
Statistics 33
Theology 6
$\begin{array}{lr}\text { Free Electives } & 8 \\ \end{array}$

FIFTH YEAR AT LSUHSC
LSUHSC: BIOS 6298
LSUHSC: BIOS 6244
LSUHSC: BIOS 6281
1 Seminar in Biostatistics

LSUHSC: BIOS 6296
LSUHSC: BIOS 6241
LSUHSC: BIOS6250
LSUHSC: Related Elective
LSUHSC: Thesis Research
Total Semester Hours $\quad 133$

| 1 | 1 | Seminar in Biostatistics |
| :---: | :---: | :--- |
| 3 |  | Analysis of Categorical Data |
| 3 |  | Survival Analysis |
| 1 | 1 | Statistical Consulting |
|  | 3 | Sampling Methods |
|  | 3 | Mulitvariate Methods |
| 2 | 3 |  |
| 13 | 11 |  |

## SUMMARY OF M.S. PROGRAM AT LSUHSC

Biostatistical Methods and Theory 29
Biostatistics Seminar 2
Epidemiology 3
Ethics 2
Related Electives 2
Thesis Research $\quad 6$
Total Semester Hours $\quad 4$

# PROGRAM IN MATH EDUCATION -- GRADES 7-12 <br> (Secondary Teaching Area: Biology, Chemistry, or Physics) 

Mathematics Education majors should note that certification requirements are established by the Louisiana Department of Education and are subject to change. Students should consult their advisors each semester. Education majors should consult the Division of Education section in this catalog for requirements to be formally admitted into Xavier's Teacher Education Program.

| FRESHMAN YEAR <br> Semester Hours $1^{\text {st }} \quad 2^{\text {nd }}$ <br> Semester Semester |  |  |  |
| :---: | :---: | :---: | :---: |
| Mathematics 1070-2070 | 4 | 4 | Intro to Calculus/Calculus II |
| Mathematics 2550 |  | 3 | Discrete Structures I |
| Education 1000 | 0 |  | Teacher Prep |
| English 1010-1020 | 3 | 3 | Comp \& Rhet. /Comp Lit. |
| History 1030-1040 | 3 | 3 | World Civilizations |
| Philosophy 2040 | 3 |  | Logic |
| Physical Education |  | 1 | Core Requirement |
| Social Sciences | 3 |  | Core Requirement |
| Speech Communication 1010 |  | 3 | Fundamentals of Public Speaking |
| Computer Competency Exam | 0 |  | A\&S Requirement |
| University 1010-1020 | 0 | 0 | Freshman Orientation |
|  | 16 | 17 |  |
| SOPHOMORE YEAR |  |  |  |
| Mathematics 2030 |  | 3 | Linear Algebra |
| Mathematics 2080 | 4 |  | Calculus III |
| Mathematics 2560 | 3 |  | Discrete Structures II |
| Statistics |  | 3 | Statistical Methods |
| Education (EDUC) 2005R |  | 0 | Praxis PPST Reading |
| Education (EDUC) 2005W |  | 0 | Praxis PPST Writing |
| Education (EDUC) 2005M |  | 0 | Praxis PPST Math |
| Education (EDSP) 2040 | 3 |  | Intro. To Exceptional Children |
| Education (EDUC) 2044 |  | 3 | Classroom Management |
| African American Studies |  | 3 | Core Requirement |
| English 2010 | 3 |  | World Literature I |
| Natural Science* | 3 | 3 | Core Requirement |
| Theology |  | 3 | Core Requirement |
| Free Electives | 2 |  | Core Requirement |
| Student Competency Exam |  | 0 | University Requirement |
|  | 18 | 18 |  |

JUNIOR YEAR
All majors must have passed all parts of Praxis I and should have been accepted into the Teacher Education Program before taking junior-level education courses.

| Mathematics 2160L |  | 1 | Mathematics Technology Lab |
| :---: | :---: | :---: | :---: |
| Mathematics 4010 | 3 |  | Modern Geometry |
| Mathematics 4030 |  | 3 | History of Mathematics |
| Mathematics 4095/4095D | 3/0 |  | Abstract Algebra |
| Education (EDUC) 3005L | 0 |  | Praxis II: Princ. of Learn. \& Teach. |
| Education (EDSC) 3023-3023M | 3 | 3 | Special Methods I |
| Education (EDUC) 3040 | 3 |  | Educational Psychology |
| Education (EDUC) 4090 |  | 3 | Adolescent Psychology |
| Computer Science elective | 3 |  |  |
| Fine Arts |  | 3 | Core Requirement |
| Natural Science* |  | 3 |  |
| Secondary Teaching Area* | 3 |  |  |
|  | 18 | 16 |  |

## SENIOR YEAR

| Mathematics 4999 | 0 | Senior Comprehen | Senior Comprehensives |
| :---: | :---: | :---: | :---: |
| Education (EDUC) 3005L |  | Praxis: Content Area |  |
| Education (EDUC) 4060S |  | Student Teaching Seminar |  |
| Education (EDSC) 4061T | 3 | Student Teaching |  |
| Education (EDSC) 4150 |  | Teaching Reading in the Content Area |  |
| Education (EDUC) 4200 |  | Multicultural Education |  |
| Philosophy 3250 | 3 | Philosophy of Science |  |
| Secondary Teaching Area* | 7 | Core Requirement |  |
| Theology | 3 |  |  |
| Free Electives | 1 |  |  |
|  | 17 | 12 |  |
|  |  |  |  |
| Semester Hours SUMMARY Semester Hours |  |  |  |
| African American Studies | 3 | Philosophy | 6 |
| Computer Science | 3 | Physical Education | - 1 |
| Education | 33 | Secondary Teaching Area* | * 10 |
| English | 9 | Social Sciences | 3 |
| Fine Arts | 3 | Speech Communication | 3 |
| History | 6 | Statistics | 3 |
| Mathematics | 31 | Theology | 6 |
| Natural Sciences | 9 | Free Electives | 3 |
|  |  | Total Semester Hours | 132 |

[^18]
## DEPARTMENT OF MUSIC

The programs in the Department of Music have as their objective the preparation of qualified students to make effective and meaningful contributions to the discipline of music performance, and/or the teaching of music, and/or music scholarship. This preparation is accomplished through training in the classroom, the studio, through music technology and through actual performance venues. The objective of each program is to provide a foundation for further study and to help develop the musical skills required for a career as a musician - musician teacher, musician-artist, and the liberally educated musician.

## Courses of Study

The Music Department offers two degrees: Bachelor of Arts (B.A.) and Bachelor of Music (B.M.). There are three courses of study. One leads to the B.A. and two lead to the B.M.

Bachelor of Arts - In the course of study leading to the Bachelor of Arts Degree, there is a broad coverage of the discipline of music that is designed to foster crossdisciplinary thinking and creativity. Emphasis is placed on the literature and theory of music, the ability to perform well in a major applied medium, and a strong intellectual grasp of the art of music and its relationship to other disciplines.

Performance - The Bachelor of Music degree is available to those students who demonstrate the musicianship and technical proficiency necessary for a concentration in vocal or instrumental performance. Students will be officially admitted into this degree program only after they have successfully passed an audition for the music faculty, normally at the end of the sophomore year.

Music Education - A major in Music Education is offered in a program designed to prepare teachers of school music and leads to a Bachelor of Music degree. Observation and teaching experiences are required and are made possible with the assistance of cooperating teachers in local public and private schools. Official admission to the Teacher Education Program is granted according to the procedures outlined by the Division of Education (See Education Section).

## General Regulations

1. All potential Music majors must pass an audition by members of the Music faculty before being officially accepted into the Department.
2. All Music majors must see their academic advisor or the Music chairperson at the opening of each semester to obtain approval of their proposed course schedules.
3. Music majors must maintain an average grade of not less than a " B " in their major applied area, and not less than a " C " in all other music courses required for the completion of their specific degree program. Students who do not satisfy these requirements may be dismissed from the department by vote of the Music faculty.
4. Students taking the freshman year Music Theory Lecture and Lab courses (MUST 1030 and 1040) must pass them with a grade of no less than a "C." Students achieving a lower grade in either of these courses will be required to take the course over.
5. Sophomore Proficiency Exams in Music: All Music majors must pass a sophomore level music reading/theory proficiency examination before enrolling in 3000 and 4000 level music theory courses. This exam is administered at the end of each spring semester.
6. Functional Piano Exam: All Music majors who are not majoring in piano are required to take 3 consecutive semesters of applied piano study. Following this series of studies, non-piano Music majors will be required to pass a departmental Functional Piano Exam to determine functional proficiency in the use of the piano within their musical study and chosen careers.
7. Conducting/Piano Proficiency Exam: Music Education majors must pass a piano proficiency test and a conducting proficiency examination before they will be permitted to do their teaching internship (Student Teaching).
8. All Music Majors must past a Music Technology Exam before being allowed to register for senior level coursework. This exam will be administered in the spring of the junior year to determine the student's proficiency in using music-related hardware and software.
9. Music Department Senior Comprehensive Exams: All Music Liberal Arts majors must take the Music Department Senior Comprehensive Exam. This is an extensive examination which consists of three sections:

- Section I is a written comprehensive on Music History and Theory. (All Music Liberal Arts majors are required to take this portion of the Exam. It will be administered at the beginning of each spring semester.
- Section II is an oral examination. For students giving a recital in fulfillment of Section II, this exam is given during the Recital Jury on the music and historical aspects of the proposed program. Other Music Liberal Arts majors will be assigned a topic for oral examination. The questions in this section will be pre-assigned by 5 members of the full-time faculty.
- Section III of the Music Comprehensive Exam involves an option where the Music Liberal Arts major may choose to either give a Senior Recital or give a seminar/document presentation on a topic that has been supervised by a music faculty member. The study for the seminar/document presentation must have been pre-approved by the department chair. Approval for the final presentation will be given by the chair after consultation with the supervising faculty member.
- National Teachers Exam: Music Education majors must pass the music portion of the National Teachers Exam or pass the Music Department Senior Comprehensive Exam before becoming eligible for graduation.


## Ensemble Participation Requirements

1. Every full-time music major is required to participate in one of the primary performing ensembles each semester he/she is in residence even if he/she has obtained the required hours in ensembles necessary to graduate.
2. Music scholarship recipients are required to participate in at least two ensembles each semester.
3. The University Chorus and the Symphonic Band are the primary vocal and instrumental ensembles. All instrumental majors must satisfy their prescribed ensemble requirement in the Symphonic Band and all Vocal and Piano majors must satisfy their prescribed ensemble requirement in the University Chorus.
4. All instrumental and piano majors are required to have experience in a vocal ensemble. It is strongly urged that all instrumental majors participate for two semesters in the University Chorus. However, approval may be given by the chair to allow a student to participate in other vocal ensembles or to take private or class voice lessons.
5. Since ensemble participation is a departmental, rather than a University requirement, the music department reserves the right to waive the required number of ensemble hours in special cases and to approve substitutions for primary ensemble requirements.

## Recitals

1. All students in the Music Performance program must present both a Junior Recital and a Senior Recital. Other majors are encouraged to give Junior and Senior recitals if they are deemed capable to do so.
2. Students in Music Education are not required to present a recital for graduation. However, all who can present a recital are urged to do so.
3. Four to six weeks prior to the date chosen for a departmentally-sponsored recital, the student must perform the proposed program before a jury of the faculty. The quality of the performance should convince the jury that the recital will be representative of the student's degree program. Only with the approval of the jury may the recital be presented.

## Recital Class

1. Every music major is required to perform in Recital Class at least once each semester on their major applied instrument; therefore, every full-time music major must register for recital class each semester of matriculation.
2. At the discretion of the major applied music teacher, freshmen and transfer students may be exempt from the above requirement only in their first semester of study.
3. Additional performance requirements for recital class may be established by the individual applied music instructor.

## Applied Music Studies

1. All music majors are required to take at least one hour of applied music in their major applied area each semester that they are in matriculation as full-time music students. This requirement holds even if the student has completed the number of applied hours prescribed in his/her individual program.
2. Students are expected to make continuous progress in their major applied area in order to reach a level of proficiency that will be monitored by the entire music faculty, area juries, and the individual instructor. Failure to reach and/or maintain a level of applied performance proficiency, as determined by the music faculty, could result in dismissal from the Music Department.

## Minor in Music

A minor in music consists of no less than 18 hours in the music discipline. Fourteen of these hours are central to the minor and are therefore prescribed. The required courses for the minor are:

| MUST 1030 \& 1030L | 4 semester hours |
| :--- | :---: |
| MUSH 1050 \& 1070 | 6 semester hours |
| Major Applied Study* | 2 semester hours |
| Ensemble Membership** | 2 semester hours |
| *Applied voice or instrument must be taken for one semester hour credit |  |
| in two different semesters. |  |
| **Membership in a major ensemble must be taken for one semester hour |  |
| credit in two different semesters. |  |

A minimum of four additional hours in the discipline of music are required in order to constitute a specific minor concentration. These additional hours must be obtained from the following:

- Music History (MUSH)
- Music Theory (MUST)
- Applied Voice or Instrument (MUAP)
- Membership in an Ensemble


## Honors in Music Theory

1. To be eligible for this honor, the student should be a music major who has completed 20 hours in music theory with a minimum GPA in theory of 3.5 by the first half of the senior year.
2. The student who elects to complete this program must apply to the departmental chair who will review that student's record, give final approval for admission in the music theory honors program, and assist the student in obtaining a faculty person to supervise a final project.
3. The student must register for MUST 4500 H in the final semester of the senior year. This course is a faculty supervised and approved music theory project (see course description).
4. Upon completion of one of the three honors theory projects prescribed for this course, a "pass" grade must be obtained from a majority of the Music Theory faculty.
5. The Music Theory faculty will also give a final evaluation of the student's Honors Project.

# PROGRAM IN MUSIC LIBERAL ARTS (B.A.) FRESHMAN YEAR 

Music (MUAP) Applied
Music (MUEN) Ensemble
Music (MURE) 1070A-1070B
Music (MUSH) 1050
Music (MUST) 1030-1040
Music (MUST) 1030L-1040L
English 1010-1020
Foreign Language or Computer Science
Mathematics 1010 or 1020
Physical Education Computer Competency Exam
University 1010-1020

Music (MUAP) Applied
Music (MUEN) Ensemble
Music (MURE) 2070A-2070B
Music (MUSH) 1070
Music (MUSM) 2180
Music (MUST) 2030-2040
Music (MUST) 2030L-2040L
African American Studies
Natural Science
History 1030
Speech Communication 1010
Student Competency Exams

2 Piano, Voice, or Instrument
1 Ensemble: Vocl/Instrmntl Req.
0 Recital Class
3 Intro. Music History \& Lit. I
3 Music Theory Lecture I-II
1 Music Theory Lab I-II
3 Comp \& Rhetoric/Comp \& Lit.
3 Core Requirement
Modern Math or Basic Statistics
Activity Course or Test
A\&S Requirement
Freshman Orientation

## SOPHOMORE YEAR

| 2 | 2 | Piano, Voice, or Instrument |
| :--- | :--- | :--- |
| 1 | 1 | Ensemble: Vocl/Instrmntl Req. |
| 0 | 0 | Recital Class |
| 3 |  | Intro. Music History \& Lit. II |
| 2 |  | Elementary Conducting |
| 3 | 3 | Music Theory Lecture III-IV |
| 1 | 1 | Music Theory Lab III-IV |
| 3 | 3 | Core Requirement |
| 3 | 3 | Core Requirement |
| 3 | 3 | World Civilizations |
|  | 0 | Fundamentals of Public Speaking |
| 18 | 16 |  |


|  | JUNIOR YEAR |  |  |
| :--- | :---: | ---: | :--- |
| Music (MUAP) Applied | 2 | 2 | Piano, Voice, or Instrument |
| Music (MUEN) Ensemble | 1 | 1 | Ensemble: Vocl/Instrmntl Req. <br> Rusic (MURE) 3070A-3070B |
| Music (MUSH) 2050 or 3050 | 0 | 0 | Recital Class <br> Music History I or III <br> Music (MUST) 3090 |
| Music (MUSM) 4010 <br> English 2010 <br> Philosophy | 3 | 2 | Orchestration <br> Social Sciences <br> Theology |
| Minor | 0 | 1 | Found. in Funct. Musc. IV <br> World Literature |
|  | 3 |  | Core Requirement <br> Core Requirement |
| Music (MUAP) Applied | 3 | 3 | Core Requirement |

## SUMMARY

Semester Hours
Semester Hours
African American Studies 3
Natural Science 6
English 9
Foreign Language or
Computer Science
History 3
Mathematics 3
Music (Applied) 16
Music (Ensembles) 8
Music (History) 12

# PROGRAM IN MUSIC PERFORMANCE ${ }^{\sim}$ INSTRUMENTAL (MAJOR APPLIED) FRESHMAN YEAR 

| Semester Hours |  |
| :---: | :---: |
| $\begin{gathered} 1^{\text {st }} \\ \text { Semester } \end{gathered}$ | $2^{\text {nd }}$ |
|  | Semester |
| 2 | 2 App |
| 1 | 1 App |
| 1 | 1 En |
|  | 3 In |
| 0 | 0 Re |
| 3 | 3 M |
| 1 | 1 M |
| 3 | 3 Co |
| 3 | 3 Fr |
| 3 | M |
|  | 1 Act |
| 0 | A |
| 0 | 0 Fr |
| 17 | 18 |

Music (Musicianship) 27
Philosophy 6
Physical Education 1
Social Sciences 6
Speech Communication 3
Theology 6
Minor 18
Free Electives $\quad \frac{2}{135}$
Total Semester Hours $\quad \underset{135}{ }$
Music (MUAP) 1632-1642
Music (MUAP) 1531P-1541P
Music (MUEN) 1910S-1920S
Music (MUSH) 1050
Music (MURE) 1070A-1070B
Music (MUST) 1030-1040
Music (MUST) 1030L-1040L
English 1010-1020
Foreign Language
Mathematics 1010 or 1020
Physical Education
Computer Competency Exam
University 1010-1020

Music (MUAP) 1632-1642
Music (MUAP) $1531 \mathrm{P}-1541 \mathrm{P}$
Music (MUEN) 1910S-1920S
Music (MUSH) 1050
Music (MUST) 1030-1040
Music (MUST) 1030L-1040L
Foreign Languge
Mathematics 1010 or 1020
Computer Competency Exam
University 1010-1020
Applied Major Instrument Applied Piano (Secondary) Ensemble: Symphonic Band
Intro. Music History \& Lit. I Recital Class
Music Theory Lecture I-II
Music Theory Lab I-II
Comp \& Rhetoric/Comp \& Lit.
French, German, or Spanish Modern Math or Basic Statistics
Activity Course or Test
A\&S Requirement Freshman Orientation

## SOPHOMORE YEAR

Music (MUAP) 2632-2642
Music (MUAP) 2531P-2541P
Music (MUEN) Ensemble
Music (MURE) 2070A-2070B
Music (MUSH) 1070
Music (MUSM) 2180-3180
Music (MUST) 2030-2040
Music (MUST) 2030L-2040L
African American Studies History 1030
Speech Communication 1010
Social Sciences
Student Competency Exams

Music (MUAP) 3733-3743
Music (MUEN) Ensemble
Music (MURE) 3070A-3070B
Music (MURE) 3000
Music (MUSH) 2050 or 3050 or 2060
or 3060
Music (MUSM) 4250-4260
Music (MUSM) 4010
Music (MUST) 3030
Music (MUST) 3090
English 2010
Integrated Physical Science
Philosophy
Physics 2060/2060L

Music (MUAP) 4834-4844
Music (MUEN) 4910S-4920S
Music (MURE) 4070A-4070B
Music (MURE) 4000
Music (MUST) 4030-4040
Music (MUST) 3111
Social Sciences
Philosophy
Theology
Free Elective

| 2 | 2 | Applied Major Instrument |
| :--- | :--- | :--- |
| 1 | 0 | Applied Piano (Secondary) |
| 1 | 1 | Ensemble: Symphonic Band |
| 0 | 0 | Recital Class |
| 3 |  | Intro. Music History II |
| 2 | 2 | Elem. Condtng./Adv. Condtng. |
| 3 | 3 | Music Theory Lecture III-IV |
| 1 | 1 | Music Theory Lab III-IV |
|  | 3 | Core Requirement |
|  | 3 | World Civilizations |
| 3 | 3 | Fundamentals of Public Speaking |
|  | 0 | Core Requirement |
|  |  |  |
| 16 | 18 |  |

## JUNIOR YEAR

|  | 3 | Applied Major Instrument |
| :---: | :---: | :---: |
| 1 | 1 | Ensemble: Symphonic Band |
| 0 | 0 | Recital Class |
|  | 0 | Junior Recital |
| 2 | 3 | Music History II or IV or I \& III |
|  | 2 | Applied Major Instrument- |
|  |  | Pedagogy \& Literature |
| 0 | 1 | Found. in Funct. Musc. IV |
| 2 |  | Counterpoint |
|  | 2 | Orchestration |
| 3 |  | World Literature |
| 3 |  | Elective |
| 3 |  | Core Requirement |
|  | 3 | Physics of Music |
| 17 | 15 |  |

## SENIOR YEAR

| 4 | 4 | Applied Major Instrument |
| :---: | :---: | :--- |
| 1 | 1 | Ensemble: Symphonic Band |
| 0 | 0 | Recital Class |
|  | 0 | Senior Recital |
| 2 | 0 | Analytical Techniques |
| 0 | 2 | Composition I |
| 3 | 3 | Core Requirement |
| 3 | 3 | Core Requirement |
| 4 | 4 | Core Requirement |
| 17 | 17 |  |

Ensemble: Symphonic Band
Recital Class
Senior Recital
Analytical Techniques
mposition I

Core Requirement Core Requirement

## SUMMARY

## Semester Hours

African American Studies 3
English 9
Foreign Language 6
History 3
Integrated Physical Science 3
Mathematics 3
Music (Applied) 25
Music (Ensembles) 8
Music (History) 9

## Semester Hours

Music (Musicianship) 33
Philosophy 6
Physical Education 1
Physics 3
Social Sciences 6
Speech Communication 3
Theology 6
Free Electives $\quad 8$
Total Semester Hours $\quad \overline{135}$

# PROGRAM IN MUSIC PERFORMANCE PIANO 

FRESHMAN YEAR
$\begin{array}{cc}\text { Semester Hours } \\ \mathbf{1}^{\text {st }} & \mathbf{2}^{\text {nd }} \\ \text { Sider }\end{array}$
Music (MUAP) 1733P-1743P
Music (MUEN) 1310U-1320U
Music (MURE) 1070A-1070B
Music (MUSH) 1050
Music (MUST) 1030-1040
Music (MUST) 1030L-1040L
English 1010-1020
Foreign Language
Mathematics 1010 or 1020
Physical Education Computer Competency Exam
University 1010-1020

Music (MUAP) 2733P-2743P
Music (MUEN) 2310U-2320U
Music (MURE) 2070A-2070B
Music (MUSH) 1070
Music (MUSM) 2180-3180
Music (MUST) 2030-2040
Music (MUST) 2030L-2040L
African American Studies History 1030
Speech Communication 1010
Student Competency Exams

Music (MUAP) 3733P-3743P
Music (MUEN) Elective
Music (MURE) 3070A-3070B
Music (MURE) 3000
Music (MUSH) 2050 or 3050
or 2060 or 3060
Music (MUSM) 4270-4280
Music (MUST) 3030
Music (MUSM) 4010
Music (MUST) 3090
English 2010
Integrated Physical Science
Physics 2060/2060L
Philosophy
Social Sciences
Music (MUAP) 4834P-4844P
Music (MUEN) Elective
Music (MURE) 4070A-4070B
Music (MURE) 4000
Music (MUST) 4030
Music (MUST) 3111
Philosophy
Social Sciences
Theology
Free Elective

## JUNIOR YEAR

| 3 | 3 | Applied Piano |
| :--- | :---: | :--- |
| 1 | 1 | Ensemble: Student's Choice |
| 0 | 0 | Recital Class |
| 0 | 0 | Junior Recital |
| 2 | 3 | Music History I, III, II, or IV <br> 2 |
| 0 | 1 | Piano Pedagogy \& Literature <br> Counterpoint <br> Found. in Funct. Musc. IV <br> Orchestration |
| 3 | 2 | World Literature |
| 3 | 3 | Elective <br> Physics of Music <br> Core Requirement <br> Core Requirement |
| 3 | 3 | 18 |

## SENIOR YEAR

| 4 | 4 | Applied Piano |
| :--- | :--- | :--- |
| 1 | 1 | Ensemble: Student's Choice |
| 0 | 0 | Recital Class |
|  | 0 | Senior Recital |
| 2 | 0 | Analytical Techniques |
| 0 | 2 | Composition I |
| 3 |  | Core Requirement |
|  | 3 | Core Requirement |
| 3 | 3 | Core Requirement |
| 3 | 5 |  |
| 16 | 18 |  |


| African American Studies | SU |
| :--- | ---: |
| English | 9 |
| Foreign Language | 6 |
| History | 3 |
| Integrated Physical Science | 3 |
| Mathematics | 3 |
| Music (Applied) | 26 |
| Music (Ensembles) | 8 |
| Music (History) | 9 |

UMMARY9633
Mathematics26
Music (Ensembles) ..... 8
Music (History) ..... 9
Music (Musicianship) ..... 33
Philosophy ..... 6
Physical Education ..... 1
Physics ..... 3
Social Sciences ..... 6
Speech Communication ..... 3
Theology ..... 6
Free Electives ..... 8
Total Semester Hours ..... 136

# PROGRAM IN MUSIC PERFORMANCE VOICE (MAJOR APPLIED) 

## FRESHMAN YEAR

| Semester Hours |  |
| :---: | :---: |
| $\mathbf{1}^{\text {st }}$ | $\mathbf{2}^{\text {nd }}$ |
| Semester | Semester |

Music (MUAP) 1632V-1642V
Music (MUAP) 1531P-1541P
Music (MUEN) 1310U-1320U
Music (MURE) 1070A-1070B
Music (MUSH) 1050
Music (MUST) 1030-1040
Music (MUST) 1030L-1040L
English 1010-1020
Foreign Language
Mathematics 1010 or 1020
Physical Education
Computer Competency Exam
University 1010-1020

Music (MUAP) 2632V-2642V
Music (MUAP) 2531P-2541P
Music (MUEN) 2310U-2320U
Music (MURE) 2070A-2070B
Music (MUSM) 2180
Music (MUST) 2030-2040
Music (MUST) 2030L-2040L
Music (MUSH) 1070
African American Studies
English 2010
Foreign Language
Student Competency Exams

SOPHOMORE YEAR

| 2 | 2 | Applied Voice |
| :--- | :--- | :--- |
| 1 | 0 | Applied Piano (Secondary) |
| 1 | 1 | Ensemble: University Chorus |
| 0 | 0 | Recital Class |
| 2 |  | Elementary Conducting |
| 3 | 3 | Music Theory Lecture III-IV |
| 1 | 1 | Music Theory Lab III-IV |
| 3 |  | Intro. Music History \& Lit. II |
|  | 3 | Core Requirement |
|  | 3 | World Literature |
| 3 | 3 | Second Year of First Language |
|  | 0 |  |
| 16 | 16 |  |

## JUNIOR YEAR

Music (MUAP) 3733V-3743V
Music (MUEN) 3910U-3920U
$3 \quad 3 \quad$ Applied Voice
Music (MURE) 3070A-3070B
$0 \quad 0 \quad$ Recital Class
Music (MURE) 3000 0 0 Junior Recital
Music (MUSH) 2050 or 3050 or 2060 or 3060

3 Music History I, III, II or IV
Music (MUSM) 3180
Music (MUSM) 1200 or 2200 or 3200
2 Advanced Conducting Ital., Fr., or Ger. Diction
Music (MUSM) 4010
1 Found. in Funct. Musc. IV
Music (MUST) 3030
Counterpoint
World Civilizations
Elective
3 Physics of Music
Core Requirement Core Requirement
Integrated Physical Science
3
Physics 2060/2060L
Philosophy
Social Sciences*

|  | 3 |
| :---: | :---: |
| 16 | 18 |

## SENIOR YEAR

Music (MUAP) 4733V-4744V
Music (MUEN) 4910U-4920U
Music (MURE) 4070A-4070B
Music (MURE) 4000
Music (MUSM) 4210-4220
Music (MUST) 4030-4040
Music (MUST) 3111
Philosophy

| 3 | 4 | Applied Voice |
| :--- | :--- | :--- |
| 1 | 1 | Ensemble: University Chorus |
| 0 | 0 | Recital Class |

Psychology 1010
Theology
Free Elective

Semester Hours
African American Studies
English 9
Foreign Language 12
History 3
Integrated Physical Science 3
Mathematics 3
Music (Applied) 24
Music (Ensembles) 8
8
Music (History) 9

## SUMMARY

|  | SUMMARY |  |  |
| :--- | ---: | :--- | ---: |
|  | Semester Hours |  | Semester Hours |
| African American Studies | 3 |  | 32 |
| English | 9 | Music (Musicianship) | 6 |
| Foreign Language | 12 | Philosophy | 1 |
| History | 3 | Physical Education | 3 |
| Integrated Physical Science | 3 | Physics | 3 |
| Mathematics | 3 | Psychology | 3 |
| Music (Applied) | 24 | Social Sciences* | 6 |
| Music (Ensembles) | 8 | Theology | 5 |
| Music (History) | 9 | Free Electives |  |
|  |  | Total Semester Hours | 133 |

[^19]
# PROGRAM IN MUSIC EDUCATION <br> INSTRUMENTAL OR VOCAL SUPERVISION 

Music Education majors should note that certification requirements are established by the Louisiana Department of Education and are subject to change. Students should consult their advisors each semester. Education majors should consult the Division of Education section in this catalog for requirements to be formally admitted into Xavier's Teacher Education Program.

Music (MUAP) Applied
Music (MUEN) 1910S-1920S or
Music (MUEN) 1310U-1320U
Music (MUAP) Applied Piano
Music (MUST) 1030-1040
Music (MUST) 1030L-1040L
Music (MUSH 1050-1070
Music (MURE) 1070A-1070B
Education (EDUC) 1000
English 1010-1020
Mathematics 1010-1020
Physical Education 1070
Computer Competency Exam
University 1010-1020

## FRESHMAN YEAR

Semester Hours

| $\mathbf{1}^{\text {st }}$ | $2^{\text {nd }}$ |
| :--- | :---: |
| Semester | Semester |


| 2 | 2 | Major Applied Study |
| :--- | :---: | :--- |
| 1 | 1 | Ensemble: Symphonic Band <br> Ensemble: University Chorus |
| 1 | 1 |  |
| 3 | 3 | Music Theory Lecture I - II |
| 1 | 1 | Music Theory Lab I, II |
| 3 | 3 | Intro. To Music History \& Lit. |
| 0 | 0 | Recital Class |
|  | 0 | Teacher Prep |
| 3 | 3 | Comp \& Rhet. /Comp Lit. |
| 3 | 3 | Modern Math/Basic Stat. |
| 0 | 1 | Folk Dancing |
| 0 |  | A\&S Requirement |
| 0 | 0 | Freshman Orientation |
| 17 | 18 |  |

## SUMMER

Natural Science
History 1030

| 3 3 Core Requirement <br> 3 <br> 6 3  |  |
| :--- | :--- | :--- |

## SOPHOMORE YEAR

Music (MUAP) Applied
Music (MUEN) 2910S-2920S or

| 2 | 2 | Major Applied Study <br> Ensemble: Symphonic Band <br> Ensemble: University Chorus <br> 1 |
| :--- | :--- | :--- |
| 0 | 0 | Recital Class |
| 1 | 0 | Secondary Piano |
| 3 | 3 | Music Theory Lecture III-IV |
| 1 | 1 | Music Theory Lab III-IV |
| 1 | 1 | Found. In Funct. Musicianship I-II <br> 3 |
|  | 3 | Classroom Org. \& Management <br> Intro. to Exceptional Children |
|  | 0 | Praxis PPST Reading |
|  | 0 | Praxis PPST Writing <br> Praxis PPST Math |
| 3 | 3 | World Literature <br> 3 |
| 18 | 14 | U. S. History |
| University Requirement |  |  |

## SUMMER

African Am. Studies
Integrated Physical Science 2010-2020
$\qquad$ Core Requirement Integrated Physical Sci./Earth Sci.

JUNIOR YEAR
All majors must have passed all parts of Praxis I and should have been accepted into the Teacher Education Program before taking junior-level education courses.

| Music (MUAP) Applied | 2 | 3 | Major Applied Study <br> Secondary Applied Study <br> Music (MUAP) Applied <br> Music (MUSM) 3010-4010 |
| :--- | :---: | :--- | :--- |
| Music (MUEN) 3910S-3920S or |  | 2 | 1 | | Found. In Funct. Muscnship III-IV |
| :--- |
| Music (MUEN) 3310U-3330U |$\quad 1$| Ensemble: Symphonic Band |
| :--- |
| Music (MURE) 3070A-3070B |

## SUMMER

| Theology | 3 | Core Requirement |
| :--- | :---: | :---: | :---: |
| Social Sciences | 3 |  |
|  | Core Requirement |  |

## SENIOR YEAR

All majors must have passed a piano proficiency test and a conducting examination before they are permitted to so the student teaching internship.

| Music (MUAP) Applied | 3 | 2 | Major Applied Study <br> Secondary Applied Study <br> Music (MUAP) Applied |
| :--- | :---: | :---: | :--- |
| Music (MUEN) 4910S-4920S or | 1 |  | 1 | | Ensemble: Symphonic Band |
| :--- |
| Ensemble: University Chorus |

## SUMMARY

## Semester Hours

| Semester Hours |  |  | Semester Hours |
| :---: | :---: | :---: | :---: |
| African American Studies | 3 | Music (History) | 6 |
| English | 12 | Music (Musicianship) | 26 |
| Education | 29 | Natural Science | 6 |
| History | 6 | Philosophy | 6 |
| Integrated Physical Science | 6 | Physical Education | 1 |
| Mathematics | 6 | Social Sciences | 3 |
| Music (Applied) | 25 | Theology | 6 |
| Music (Ensembles) | 8 | Total Semester Hours | 149 |

## DEPARTMENT OF PHILOSOPHY

The philosophy program is designed for students who plan to take an active leadership role in shaping a more humane society. Completing the philosophy major will (1) provide the student with knowledge of the philosophical themes and thinkers that have been influential in shaping contemporary culture; (2) increase the student's ability to think, speak, read, and write critically and effectively; and (3) increase the student's ability to approach value questions in a rational manner. These abilities will prepare the student for success in any career that requires rational thought and expression (teaching, law, business, management, public policy, etc.).

In order to accommodate a number of different career options, the curriculum has been designed to encourage students to pursue a second area of interest by means of a double major, a double minor, or a combination of related courses.

The requirements for majors in philosophy are: three courses in the history of philosophy (2011, 2021, and 2031), one course in logic (2040), one course in ethics (2045, 2400, or 2410), a course in directed readings (philosophical author or topic of students' choice in consultation with the instructor), one senior seminar, and four other courses in philosophy. Majors are required to pass a comprehensive examination and regular attendance at all Philosophy departmental meetings is required. In order for a philosophy course to be counted for degree credit, a student must earn a "C" or better.

For those students who major in philosophy in preparation for graduate work in THEOLOGY, the course in Philosophy of Religion (2270) is highly recommended.

For those students who are interested in LAW SCHOOL or are interested in learning more about the law, Legal Reasoning (3190), Philosophy of Law (3260), and the Law and Humanities Seminar (4500) are highly recommended.

For those students who are interested in PUBLIC POLICY or CIVIL SERVICE employment, the department offers great flexibility for pursuing a minor in Public Administration while at the same time enjoying 16 hours of free electives to help them improve their quantitative skills.

For those students interested in an MBA program (Master of Business Administration), the department offers courses for the development of a critical mind, problem solving skills, and a mature understanding of values. These students can minor in Business Administration and still take 16 hours of free electives to improve their quantitative skills.

Students interested in medical or dental school should begin work in the freshmen year on a chemistry minor and the other courses required by medical and dental schools. The required courses are described in the Special Programs section of this catalog.

Minor in Philosophy - The requirements for a minor in philosophy are: three courses in the history of philosophy (2011, 2021, 2031), one course in logic (2040), one course in ethics $(2045,2400$, or 2410$)$ and one 3 -hour course in philosophy.

The philosophy department participates in the interdisciplinary minor in Law and Humanities and Environmental Studies/Science. For further information, see the description of the minor in the Special Programs section in this catalog.

## PROGRAM IN PHILOSOPHY

FRESHMAN YEAR
$\underset{1^{\text {st }}}{\text { Semerter Hours }} \mathbf{2}^{\text {nd }}$
Semester Semester

Philosophy Elective
English 1010-1020
Foreign Language
History 1030-1040
Mathematics*
Speech Communication 1010
Physical Education
Computer Competency Exam
University 1010-1020

Philosophy 2011-2021
Philosophy 2040
Philosophy Elective
African American Studies
Natural Sciences
English 2010-2020
Fine Arts
Social Sciences
Free Electives/Minor
Student Competency Exams

Philosophy 2031
Philosophy 2045, 2400, or 2410
Philosophy Elective **
History
Social Sciences
Theology
Free Electives/Minor

Philosophy 4003
Philosophy Elective
Philosophy Seminar
Philosophy 4999
Theology
Free Electives/Minor

3
33 Comp \& Rhetoric/Comp \& Lit.
$3 \quad 3 \quad$ Core Requirement
33 World Civilizations
33 Core Requirement /Elective
3 Fundamentals of Public Speaking
Activity Course or Test
A\&S Requirement Freshman Orientation

## SOPHOMORE YEAR

33 History of Ancient \& Medieval Phil. History of Modern Philosophy
Logic
3
3 Core Requirement
3 Core Requirement
3 World Literature
Core Requirement
Core Requirement
3


JUNIOR YEAR
$3 \quad 19^{\text {th }} \& 20^{\text {th }}$ Century Philosophy Ethics: General Principles, Health Ethics, or Business Ethics
3
3 Elective
3
3

| 3 | 9 |
| :---: | :---: |
| 18 | 15 |

SENIOR YEAR
3

Special Topics Seminar
Senior Comprehensives
Core Requirement
Semester Hours

|  | Semester Hours |  | Semester Hours |
| :--- | ---: | :--- | ---: |
| African American Studies | 3 |  |  |
| English | 12 | Physical Education | 1 |
| Fine Arts | 3 | Social Sciences | 6 |
| Foreign Language | 6 | Speech Communication | 3 |
| History | 9 | Theology | 6 |
| Mathematics | 6 | Free Electives | 16 |
| Natural Sciences | 6 | Minor | 18 |
| Philosophy | 33 | Total Semester Hours | 128 |

[^20]
## Philosophy and an Accelerated Pre-Law Program

A student majoring in Philosophy may participate in a 3-3 course of study with any accredited three-year law school program. In a 3-3 plan, the student can complete all of his/her core curriculum and major and minor requirements in three years at Xavier and then apply 30 credit hours earned in law school as his/her electives for the Xavier B.A. program. The procedure used to transfer the law credit hours is the same as the one used for transferring courses taken at another university. The student must, however, take and pass the philosophy comprehensives before entering law school in order to earn the B.A. degree.

Thus at the end of four years, the student will have completed all of his/her requirements for graduation from Xavier with a B.A. degree, and he/she will have completed one year of law school.


Philosophy 2045, 2400, or 2410
Philosophy 4003
Philosophy 3260
Philosophy 2031
Philosophy Electives
Philosophy 4999
Social Sciences
Theology
Minor

## JUNIOR YEAR

3
Ethics: General Principles, Health
Ethics, or Business Ethics
Directed Readings in Philosophy
Philosophy of Law
$19^{\text {th }} \& 20^{\text {th }}$ Century Philosophy Legal Reasoning recommended Senior Comprehensives Elective Core Requirement

## Credits Accepted from Law School: <br> Free electives <br> 25

## SUMMARY

## Semester Hours

Semester Hours
African American Studies 3
English 9
Fine Arts 3
Foreign Language 6
History 6
Mathematics 6
Natural Sciences 6
Philosophy 30
Physical Education ..... 1
Social Sciences ..... 6
Speech Communication ..... 3
Theology ..... 6
Free Electives ..... 25
Minor ..... 18
Total Semester Hours ..... 128
*MATH 1020 recommended.

## DEPARTMENT OF PHYSICS AND DUAL DEGREE ENGINEERING

## Programs in Physics

Students electing physics as a major have the option of pursuing a program leading to either a bachelor of science (B.S.) or a bachelor of arts (B.A.) degree. The B.S. program is designed for the student who plans a career as a physicist. The B.A. program is pursued by students as preparation for further study and work in such fields as medicine, law, physical chemistry, biophysics, business administration, psychology, education, and many others.

The objective of the B.S. curriculum in physics is to equip the student with those skills (logical reasoning, problem analysis and solution, techniques in experimentation) and knowledge (fundamental concepts) necessary for entry into either graduate study in physics or the work force at the B.S. level. The B.S. curriculum requires the student to take a total of 138 semester hours, with at least 51 in physics and 22 in mathematics. The following courses are required for the B.S. degree:

PHYSICS: $\quad 1121,2111,2121,2630,3010,3011,3020,3030,3040,3050,3210$, 3310L, 3320L, 3510S, 4050, 4200, 4210, 4530. Physics 3210 may be replaced with a Special Topics course in Classical Mechanics, when offered.

MATHEMATICS: 1030, 1070, 2030, 2070, 2080, 2530.
The objective of the B.A. curriculum in physics is to enable the student to develop patterns of analytical reasoning and problem-solving which would be useful in the student's chosen area outside of physics -- medicine, law, etc. It is also intended that this curriculum will enable the student to acquire experiences that will serve as a foundation for later study in the chosen area of specialization. The student in the B.A. curriculum takes a total of 132 semester hours, with at least 24 in physics, 19 in mathematics and 24 in the area of specialization. The following courses are required for the B.A. degree:

PHYSICS: $\quad 1121,2111,2121,3030,3210,3310 L, 3510 \mathrm{~S}, 3520 \mathrm{~S}$. Physics 3210 may be replaced with a Special Topics course in Classical Mechanics, when offered.

MATHEMATICS: 1030, 1070, 2030, 2070, 2080.
All majors must take a written comprehensive examination during the senior year dealing with the fundamentals of the various fields of physics and attend all departmental meetings. In order for a physics or mathematics course to be counted for degree credit, a student must have a " C " or better in it.

Minor in Physics: A minor in Physics consists of 18 hours of designated physics courses. There are two possibilities:

1. Students can complete the introductory calculus-based physics sequence (Physics 1121,2111 , and 2121) and 6 hours of any combination of upper level physics courses (upper level courses include PHYS 2630 as well as any 3000 and above courses); or
2. Students can complete the introductory non-calculus based sequence (PHYS 2010/2010L and 2020/2020L) and 10 hours of upper level courses from the following: 3030 (Optics), 3040 (Thermodynamics), 3050 (Modern Physics), 3310L, 3320L, 3310 or 3320 (Seminar), and 4530 (Special Topics) (Please note that Physics 4530 requires the permission of the instructor.) Other upper level courses may be possible with permission of the chair and the instructor and the proper prerequisites.

| $1^{\text {st }}$ | $2^{\text {nd }}$ |
| :---: | :---: |
| Semester | Semester |

Physics 1121
English 1010/1020
Computer Science elective
Mathematics 1030/1070
Social Science
Speech Communication 1010
Physical Education
Computer Competency Exam
University 1010-1020

Physics 2111/2121
African American Studies
Fine Arts
History 1030-1040
Mathematics 2070-2080
Mathematics 2030
Other Electives
Student Competency Exams

Physics 3030/Physics Elective
Physics 3510S/3520S
Chemistry 1010/1010L 1020/1020L
English 2010
Philosophy
Theology
Free Electives
JUNIOR YEAR

| 3 | 3 | Optics/Physics Elective <br> 1 |
| :---: | :---: | :--- |
|  | 1 | Seminar |
| 4 | 4 | General Chemistry |
|  | 3 | World Literature I |
|  | 3 | Core Requirement |
| 3 |  | Core Requirement |
| 6 | 2 |  |
| 17 | 16 |  |

SENIOR YEAR
Physics 3210
Physics 3310L

|  | 3 | Mechanics-Statics |
| :---: | :---: | :--- |
|  | 1 | Advanced Physics Lab <br>  <br> 3 |
| 3 | 3 | Senior Comprehensives |
|  |  | Core Requirement |
|  | 3 | Core Requirement |
| 12 | 6 |  |
| 18 | 16 |  |

## SUMMARY <br> Semester Hours <br> Semester Hours

African American Studies

## SOPHOMORE YEAR

| 4 | 4 | General Physics with Calculus |
| :---: | :---: | :--- |
|  | 3 | Core Requirement |
| 3 | 3 | Core Requirement |
| 4 | 4 | World Civilizations |
| 3 |  | Calculus II/ Calculus III |
| 3 |  | Linear Algebra |
|  | 0 | University Requirement |
| 17 | 17 |  |

# PROGRAM: B.S. in PHYSICS 

FRESHMAN YEAR

| Semester Hours |  |
| :--- | :---: |
| $\mathbf{1}^{\text {st }}$ | $\mathbf{2}^{\text {nd }}$ |
| Semester | Semester |

Physics 1121
Computer Science elective
English 1010/1020
History 1030
Mathematics 1030/1070
Social Science
Speech Communication 1010
Physical Education
Computer Competency Exam
University 1010-1020

Physics 2111/2121
Physics 2630
Chemistry 1010/1010L 1020/1020L
History 1040

| 4 | 4 | General Chemistry |
| :--- | :---: | :--- |
| 3 |  | World Civilizations <br> 4 |
| 3 | 4 | Calculus II/ Calculus III <br> Linear Algebra |
|  | 3 | Differential Equations <br>  |
| 18 | 18 | University Requirement |

## JUNIOR YEAR

Physics 3030/3040
Physics 3210/3020
Physics 3310L/3320L
Physics 3010/3011
Physics 3510S
Physics 4530
African American Studies
English 2010
Fine Arts

| 3 | 3 | Optics/Thermodynamics |
| :--- | :---: | :--- |
| 3 | 3 | Mech. Statics/Mech. Dynamics |
| 1 | 1 | Advanced Physics Lab |
| 3 | 3 | Electricity \& Magnetism <br> 1 |
| 3 |  | Seminar <br> Special Topics <br> Core Requirement <br> 3 |
| 17 | 3 | World Literature I <br> Core Requirement |
| 16 |  |  |

Physics 3050/4050
Physics 4200/4210
Physics 4530
$\begin{array}{ccc}\text { SENIOR } & 3 & 3 \\ \text { YEAR } & \text { Modern Physics/Quantum Phys. }\end{array}$

Physics 4999
Foreign Language
Philosophy
Theology
Free Electives

## SOPHOMORE YEAR

| 4 | 4 | General Physics with Calculus <br> Analytical Methods for Physics and <br> Engineering |
| :--- | :--- | :--- |
|  | 3 |  |

Mathematics 2070/2080
Mathematics 2030
Mathematics 2530
Student Competency Exams

3
33 Mech. Statics/Mech. Dynamics
$1 \quad 1 \quad$ Advanced Physics Lab

- 3 Electricity \& Magnetism

1 Seminar Special Topics
ment Core Requirement

## SENIOR YEAR

| 1 | 2 | Physics Projects <br> 3 |
| :---: | :---: | :--- |
| Special Topics |  |  |
| 3 | 0 | Senior Comprehensives <br> 3 |
| 3 | 3 | Core Requirement |
| 3 | 3 | Core Requirement |
| 2 | 3 |  |
| 18 | 17 |  |

## SUMMARY

## Semester Hours

## Semester Hours

|  | Semester Hours |  | Semester Hours |
| :--- | ---: | :--- | ---: |
| African American Studies | 3 | Philosophy | 6 |
| Chemistry | 8 | Physics | 51 |
| Computer Science | 3 | Physical Education | 1 |
| English | 9 | Social Sciences | 6 |
| Fine Arts | 3 | Speech Communication | 3 |
| Foreign Language | 6 | Theology | 6 |
| History | 6 | Free Electives | 5 |
| Mathematics | 22 | Total Semester Hours | 138 |

## Programs in Engineering

The Xavier University Dual Degree Engineering Program is designed to give a solid academic background in the sciences and mathematics that are essential to persons who are interested in becoming engineers. At Xavier, students take three years of basic science, mathematics, engineering, and liberal arts courses. The Dual Degree Engineering curriculum consists of six options. For the number of hours in each option, see the specific program listings on the following pages. The total number of hours to be completed will be less for students who by-pass a mathematics course. When the three-year program is completed successfully, students transfer to an Engineering School of their choice to complete training in a specialized area of engineering. It is expected that students will, with normal course loads, be able to complete their undergraduate training in two years at the Engineering School. Xavier currently has agreements with the following Engineering Schools: Georgia Institute of Technology, Morgan State University, Southern University at Baton Rouge, Tulane University, University of Detroit Mercy, North Carolina A\&T State University, University of Maryland, University of New Orleans, and University of Wisconsin. These agreements do not, however, preclude students from choosing and attending other Engineering Schools.

There are two degree options available to students in the Dual Degree Program. The first option provides that upon successfully completing degree requirements of the Engineering School, students become candidates for a B.A. Degree in Physics from Xavier. The second option allows for students to receive a B.S. degree in Physics or Chemistry (ACS certified) upon successfully completing degree requirements of the Engineering School.

Students in the Dual Degree Program should submit the application for a degree from Xavier at least one semester prior to their graduation from the Engineering school. In instances where the engineering degree program is not completed, Xavier will, upon petition by the individual student, evaluate this student's total academic record for consideration of this student's eligibility for a B.A. or B.S. Degree in Physics or Chemistry from Xavier.

The objectives of the Dual Degree Engineering Program (DDEP) are:

1. to provide all students admitted to the program with the counseling, academic and other support services that will maximize their opportunity for completion of the first three years of the program;
2. to offer a curriculum that will provide students with the optimum set of courses essential to the pursuit of a selection of engineering programs they might choose upon entry into an Engineering School;
3. to provide the academic preparation in essential engineering background courses to ensure that students will be maximally prepared to successfully complete the last two years of the dual degree program at the engineering school of their choice; and
4. to assist students in the identification of financial assistance (e.g., scholarships, internships, etc.) during their matriculation at Xavier and during their transition to engineering school.

# PROGRAM: DUAL DEGREE BIOMEDICAL ENGINEERING 

Physics 1121
Chemistry 1010/1010D/1011L 1020/1020D/1021L
English 1010-1020
Mathematics 1070-2070
FRESHMAN YEAR
$\begin{array}{lc}\text { Semester Hours } \\ \mathbf{1 1}^{\text {st }} & \mathbf{2}^{\text {nd }} \\ \text { Semester } & \text { Semester }\end{array}$
4 General Physics with Calculus

Social Science or Foreign Language
Speech Communication 1010
Computer Competency Exam
University 1010-1020

Physics 2111/2121
Biology 1230/1230L - 1240/1240L
Chemistry 2210/2210D/2230L -
2220/2220D/2240L
Fine Arts
Mathematics 2080/2030
Physical Education
Student Competency Exams
$4 \quad 4$ General Chemistry

| 4 | 4 | General Chemistry |
| :---: | :---: | :--- |
| 3 | 3 | Comp \& Rhetoric/Comp \& Lit. |
| 4 | 4 | Intro. Calculus, Calculus II |
| 3 | 3 | Core Requirement |
| 3 |  | Fundamentals of Public Speaking |
| 0 |  | A\&S Requirement |
| 0 | 0 | Freshman Orientation |
| 17 | 18 |  |

## SOPHOMORE YEAR

## JUNIOR YEAR

Engineering 2210/2020
Engineering 2120
33 Mech. Statics/Dynamics
Engineering 2630
3 Network Analysis
Chemistry 4130
3 Analytical Methods
Computer Science 1760
History 1030 or 1040
Mathematics 2530
Philosophy 2040/xxxx Theology

3 Biochemistry I
3
3
Introduction to C Programming
World Civilizations
Differential Equations

## SUMMARY

Semester Hours

## Semester Hours

| Biology | Semester Hours |
| :--- | ---: |
| Chemistry | 8 |
| Computer Science | 19 |
| Engineering | 32 |
| English | 6 |
| Fine Arts | 3 |
| Foreign Language or | 6 |
| Social Sciences |  |

History
3
Mathematics 18
Philosophy 6
Physics 12
Physical Education 1
Speech Communication 3
Theology $\quad 6$
Total Semester Hours $\quad \overline{106}$

# Note: Biomedical Engineering students who wish to receive a B.A. or a B.S. degree in Physics from Xavier University of LA must satisfy the following requirements in addition to the above: 

## B. A. Degree in Physics

| Physics 3510S or 3520S | 1 |
| :--- | ---: |
| Physics 3310L or 3320L |  |
| Courses taken in |  |
| $\quad$ Engineering School | 1 |
|  | 26 |
|  | 28 |
| B. S. Degree in Physics |  |
| Physics 3510S or 3520S | 1 |
| Physics 3310L or 3320L | 1 |
| Physics 3030-3040 | 6 |
| Physics 3050-4050 | 6 |
| Courses taken in |  |
| $\quad$ Engineering School | 14 |
| Total hours |  |

## PROGRAM: DUAL DEGREE CHEMICAL ENGINEERING

Physics 1121
Engineering 1061
Chemistry 1010/1010D/1011L 1020/1020D/1021L
English 1010-1020
Mathematics 1070-2070
Speech Communication 1010
Physical Education
Computer Competency Exam
University 1010-1020

Physics 2111/2121
Chemistry 2210/2210D/2230L 2220/2220D/2240L
History 1030-1040
Mathematics 2080/2030
Social Science or Foreign Language
Student Competency Exams

FRESHMAN YEAR
Semester Hours
$\begin{array}{cc}\mathbf{1}^{\text {st }} & \mathbf{2}^{\text {nd }} \\ \text { Semester } & \text { Semester }\end{array}$
4 General Physics with Calculus
3 Engineering Graphics

| 4 | 4 | General Chemistry |
| :---: | :---: | :--- |
| 3 | 3 | Comp \& Rhetoric/Comp \& Lit. |
| 4 | 4 | Intro. Calculus, Calculus II |
| 3 |  | Fundamentals of Public Speaking |
| 1 |  | Activity Course or Test |
| 0 |  | A\&S Requirement |
| 0 | 0 | Freshman Orientation |
| 15 | 18 |  |

## SOPHOMORE YEAR

44 General Physics with Calculus
$4 \quad 4 \quad$ Organic Chemistry
33 World Civilizations
43 Calculus III/Linear Algebra
33 Core Requirement
$\begin{array}{ccc} & 0 & \text { University Requirement }\end{array}$

## JUNIOR YEAR

Engineering 2210
Physics 3510 S or 3520 S
Chemistry 3030
Chemistry 3210/3210L
Computer Science 1760
English 2010
Fine Arts
Mathematics 2530
Philosophy 2040/xxxx
Theology

Mech. Statics
Seminar
3 Physical Chemistry
Quantitative Analysis \& Lab
Introduction to C Programming
World Literature I
Core Requirement
Differential Equations
Logic/Philosophy Core Req. Core Requirement

## SUMMARY

|  | Semester Hours | Semester Hours |  |
| :--- | ---: | :--- | ---: |
| Chemistry | 23 | History | 6 |
| Computer Science | 3 | Mathematics | 18 |
| Engineering | 6 | Philosophy | 6 |
| English | 9 | Physics | 13 |
| Fine Arts | 3 | Physical Education | 1 |
| Foreign Language or |  | Speech Communication <br> Social Sciences | 6 |

Note: Chemical Engineering students who wish to receive a B.A. or a B.S. degree in Physics, or a B.S. degree in Chemistry, ACS Certified, from Xavier University of LA must satisfy the following requirements in addition to the above:

## B. A. Degree in Physics

Physics 3050 or Chemistry 30403
Courses taken in
Engineering School $\quad 28$
Total hours

## B. S. Degree in Physics

Physics 3030-3040 6
Physics 30503
Physics 4050 or Chemistry 30403
Courses taken in
$\begin{array}{lr}\text { Engineering School } & 19 \\ \end{array}$

## B. S. Degree in Chemistry (ACS Certified)

Chemistry 3030L
Chemistry 3040/3040L 4
Chemistry 4010/4011 6
Chemistry 41303
Chemistry 4240/4240L 4
Chemistry 4083
Chemistry 4310L 2
Chemistry 4999 0
Chemistry Elective 3
Free Electives - Transferred from
Engineering School
6
-32

# PROGRAM: DUAL DEGREE CIVIL ENGINEERING 

Physics 1121
Engineering 1061
Chemistry 1010/1010D/1011L 1020/1020D/1021L
English 1010-1020
FRESHMAN YEAR
Semester Hours
$1^{\text {st }} \quad 2^{\text {nd }}$
Semester Semester
4 General Physics with Calculus
3 Engineering Graphics

Mathematics 1070-2070
Speech Communication 1010
Physical Education
Computer Competency Exam
University 1010-1020

Physics 2111/2121
Computer Science 1760
English 2010
Fine Arts
History 1030-1040
Mathematics 2080/2530
Mathematics 2030
Student Competency Exams

## SOPHOMORE YEAR

| 4 | 4 | General Physics with Calculus |
| :--- | :--- | :--- |
| 3 | 3 | Intro to C Programming |
| 3 |  | World Literature I |
| 3 | 3 | Core Requirement |
| 4 | 3 | World Civilizations |
| 4 | 3 | Calculus III/Differential Eqns. |
|  | 0 | University Reqra |
|  | 16 |  |

## JUNIOR YEAR

Engineering 2210/2020
Engineering 2120
Engineering 2630
Physics 3310L or 3320L
Physics 3510S or 3520S
Physics Elective*
Philosophy 2040/xxxx
Social Science or Foreign Language
Theology
Mech. Statics/Dynamics
3 Network Analysis
3 Analytical Methods

| 1 |  | Advanced Physics Lab <br> 1 |
| :---: | :--- | :--- |
| 3 |  | Seminar |
| Physics 3xxx or 4xxx |  |  |
| 3 | 3 | Logic/Philosophy Core Req. |
| 3 | 3 | Core Requirement |
| 3 | 3 | Core Requirement |
| 17 | 18 |  |

## SUMMARY

## Semester Hours

Chemistry ..... 8
Computer Science ..... 3
Engineering ..... 15
English ..... 9
Fine Arts ..... 3Foreign Language orSocial Sciences6
History ..... 6
Mathematics ..... 18
Philosophy ..... 6
Physics ..... 17
Physical Education ..... 1
Speech Communication ..... 3
Theology ..... 101

Note: Civil Engineering students who wish to receive a B.S. degree in Physics from Xavier University of LA must satisfy the following requirements in addition to the above:

## B. S. Degree in Physics

Physics 3030-3040 6
Physics 3050-4050 6
Courses taken in
$\begin{array}{ll}\text { Engineering School } & 16 \\ \end{array}$
Total hours
*For students pursuing the B.S. degree in Physics, the Physics Elective mist be a 3000- or 4000level Physics course, and it cannot be one of the above courses listed as a requirement of the B.S. degree in Physics.

## PROGRAM: DUAL DEGREE ELECTRICAL ENGINEERING

Physics 1121-2111
Chemistry 1010/1010D/1011L 1020/1020D/1021L
English 1010-1020
Mathematics 1070-2070
FRESHMAN YEAR

| Semester |
| :---: |
| $\mathbf{1}^{\text {st }}$ |
| Hours <br> Semester <br> 4 |
| $\mathbf{2}^{\text {nd }}$ |
| Semester |
| 4 |

4
4
4

## SOPHOMORE YEAR

Engineering 2630
Engineering 2020

Physics 2121
4
English 20103
Fine Arts
History 1030-1040
Mathematics 2080/2530
Mathematics 2030
Student Competency Exams

Engineering 2120
Physics 3010-3011
Physics 3310L or 3320L
Physics 3510S or 3520S
Physics Elective*
Computer Science 1760
Philosophy 2040/xxxx
Social Science or Foreign Language Theology

3 Analytical Methods
3 Dynamics General Physics with Calculus World Literature I Core Requirement
3 World Civilizations
3 Calculus III/Differential Eqns.
3 Linear Algebra
0 University Requirement

JUNIOR YEAR

|  | 3 | Network Analysis |
| :---: | :---: | :--- |
| 3 | 3 | Electricity \& Magnetism I \& II <br> 1 |
| 1 |  | Advanced Physics Lab <br> Seminar |
| 3 |  | Physics 3xxx or 4xxx <br>  <br> 3 |
| 3 | 3 | Intro to C Programming |
| 3 | 3 | Logic/Philosophy Core Req. |
| Core Requirement |  |  |
| 17 | 18 |  |


| Chemistry | 8 |
| :--- | ---: |
| Computer Science | 3 |
| Engineering | 9 |
| English | 9 |
| Fine Arts | 3 |
| Foreign Language or |  |
| Social Sciences | 6 |

History
Mathematics 18
Philosophy
Physics 23
Physical Education
Speech Communication 3
Theology
6
Total Semester Hours

Note: Electrical Engineering students who wish to receive a B.S. degree in Physics from Xavier University of LA must satisfy the following requirements in addition to the above:

## B. S. Degree in Physics

| Physics 3030-3040 | 6 |
| :--- | ---: |
| Physics 3050-4050 | 6 |
| Courses taken in |  |
| $\quad$ Engineering School | 16 |
|  | 28 |

*For students pursuing the B.S. degree in Physics, the Physics Elective mist be a 3000- or 4000level Physics course, and it cannot be one of the above courses listed as a requirement of the B.S. degree in Physics.

## PROGRAM: DUAL DEGREE ENVIRONMENTAL ENGINEERING

|  | FRESHMAN YEAR <br> Semester Hours |  |
| :--- | :---: | :---: | :--- |
|  | $\mathbf{1}^{\text {st }}$ <br> Semester | $\mathbf{2}^{\text {nd }}$ <br> Semester |
| Physics 1121 |  |  |

Engineering 2210/2020
Engineering 2630
Physics 3310L or 3320L
Physics 3510S or 3520S
Computer Science 1760
English 2010
Fine Arts
Mathematics 2530
Philosophy 2040/xxxx
Theology

JUNIOR YEAR

| 3 | 3 | Mech. Statics/Dynamics <br> Analytical Methods |
| :---: | :---: | :--- |
| 1 | 3 | Advanced Physics Lab <br> 1 |
| 3 | 3 | Seminar <br> Intro to C Programming |
| 3 | 3 | World Literature I <br> Core Requirement <br> Differential Equations <br> 3 |
| 3 | 3 | Logic/Philosophy Core Req. <br> Core Requirement |
| 17 | 18 |  |

## SUMMARY

Semester Hours Semester Hours
Chemistry
Computer Science
Engineering
English
Fine Arts
Foreign Language or
Social Sciences

History 6
Mathematics 18
Philosophy 6
Physics 14
Physical Education 1
Speech Communication 3
Theology $\quad 6$
Total Semester Hours $\quad 103$

Note: Environmental Engineering students who wish to receive a B.S. degree in Physics from Xavier University of LA must satisfy the following requirements in addition to the above:

## B. S. Degree in Physics

Physics 3030-3040 6
Physics 3050-4050 6
Courses taken in $\begin{array}{ll}\text { Engineering School } & 16 \\ \end{array}$

## PROGRAM: DUAL DEGREE MECHANICAL ENGINEERING

Physics 1121
Engineering 1061
Chemistry 1010/1010D/1011L 1020/1020D/1021L
English 1010-1020
Mathematics 1070-2070
Speech Communication 1010
Physical Education
Computer Competency Exam
University 1010-1020

FRESHMAN YEAR
Semester Hours


Semester Semester
4 General Physics with Calculus
3 Engineering Graphics

| 4 | 4 | General Chemistry |
| :---: | :---: | :--- |
| 3 | 3 | Comp \& Rhetoric/Comp \& Lit. |
| 4 | 4 | Intro. Calculus, Calculus II |
| 3 |  | Fundamentals of Public Speaking |
| 1 |  | Activity Course or Test |
| 0 |  | A\&S Requirement |
| 0 | 0 | Freshman Orientation |
| 15 | 18 |  |

Physics 2111/2121
Computer Science 1760
English 2010
Fine Arts
History 1030-1040
Mathematics 2080/2530
Mathematics 2030
Student Competency Exams

## SOPHOMORE YEAR

| 4 | 4 | General Physics with Calculus |
| :--- | :---: | :--- |
| 3 | 3 | Intro to C Programming |
| 3 |  | World Literature I |
| 3 |  | Core Requirement |
| 4 | 3 | World Civilizations |
|  | 3 | Calculus III/Differential Eqns. |
|  | 3 | Linear Algebra |
| 17 | 0 | University Requirement |
| 16 |  |  |

## JUNIOR YEAR

Engineering 2210/2020
Engineering 2120
Engineering 2630
Physics 3310L or 3320L
Physics 3510S or 3520S
Physics Elective*
Philosophy 2040/xxxx
Social Science or Foreign Language
Theology

Mech. Statics/Dynamics
Network Analysis
Analytical Methods
Advanced Physics Lab
Seminar Physics 3xxx or 4xxx
3 Logic/Philosophy Core Req.
3 Core Requirement 3 Core Requirement

## SUMMARY

## Semester Hours

## Semester Hours

|  | Semester Hours | Semester Hours |  |
| :--- | ---: | :--- | ---: |
| Chemistry | 8 | History | 6 |
| Computer Science | 3 | Mathematics | 18 |
| Engineering | 15 | Philosophy | 6 |
| English | 9 | Physics | 17 |
| Fine Arts | 3 | Physical Education | 1 |
| Foreign Language or |  | Speech Communication | 3 |
| Social Sciences | 6 | Theology | 6 |
|  |  | Total Semester Hours | 101 |

## Note: Mechanical Engineering students who wish to receive a B.S. degree in Physics from Xavier University of LA must satisfy the following requirements in addition to the above:

## B. S. Degree in Physics

| Physics 3030-3040 | 6 |
| :--- | ---: |
| Physics 3050-4050 | 6 |
| Courses taken in |  |
| $\quad$ Engineering School | 16 |
|  | 28 |

*For students pursuing the B.S. degree in Physics, the Physics Elective mist be a 3000- or 4000level Physics course, and it cannot be one of the above courses listed as a requirement of the B.S. degree in Physics.

## PROGRAM IN COMPUTER ENGINEERING See Department of Computer Sciences and Computer Engineering

## DEPARTMENT OF POLITICAL SCIENCE

The Political Science program is designed for students who aspire to active leadership roles in promoting a more just society. Completing the political science major will: 1) increase student competence in the understanding of the principles of government and political thought; 2) develop student awareness and understanding of global political and economic issues; 3) enhance student skills in statistical research and quantitative analysis; 4) maximize student abilities to read critically, speak effectively, write clearly and think analytically; and, 5) facilitate student abilities to apply moral and ethical analysis to political issues.

The Political Science program is designed to prepare students for a variety of career opportunities in the local, national, and international political arena. The educational outcomes and career orientations students can expect to pursue are: 1) graduate study in political science, public administration, political economy, international and public affairs, urban planning, or other social sciences; 2) professional study in law, mass communications, social work, management, or other professions; 3) employment with government or non-profit organizations; 4) foreign service; 5) partisan political activity; 6) classroom teaching and educational administration; and, 7) grassroots organization within the African American community.

Students are exposed to a variety of activities including seminars, guest speakers, field trips, internships, and newsletters as well as social and professional club activities. Besides meeting the required credit hours for the major, minor, core curriculum, and free electives, students must pass a comprehensive examination. In order for a departmental offering to be counted for credit in the major or minor, a student must earn a "C" or better.

Requirements for the major in Political Science include 42 hours of Political Science courses. Of these, the following courses are required: PSCI 1010, 1020, 2010, 2040, $2050,2511,3010,3250$ or 3270,4100 . Only three of the 42 hours may be taken in independent study courses and internships (PSCI 4901, 4911, 4953, 4963); additional hours in independent study courses may be taken as free electives outside of the major.

Majors and minors have the flexibility to acquire concentrations in the following areas:

$$
\begin{array}{ll}
\text { AMERICAN NATIONAL INSTITUTIONS: } \quad \begin{array}{c}
\text { PSCI 2050, 2120, 2390, 3100, } \\
3360,3380, ~ a n d ~ 3460, ~
\end{array}
\end{array}
$$

INTERNATIONAL AFFAIRS: PSCI 2040, 3010, 3040, 3640, 4100, 4640, and 4650

PUBLIC LAW: PSCI 2060, 2100, 2120, 3100, 3110 and 3133
URBAN POLITICS: PSCI 2440, 3360, 3390, 3400, and 4920
Minor in Political Science - Minors must complete 18 hours of political science, including Political Science 1010. No more than three hours may be taken in independent study courses and internships (PSCI 4901, 4911, 4953, 4963). Nonmajors must have PSCI 1020 or 2040 as a prerequisite for advanced courses, but this requirement may be waived by the department chairperson.

Minor in Pre-Law - The minor in pre-law consists of specialized courses within the Political Science program of study. This minor is available to non-Political Science majors who are considering entrance into the legal profession, including law school, criminal justice programs, public service, and political office.

The Minor in pre-law requires 18 hours in the following courses: PSCI 2120, Judicial Process; PSCI 2100, Law, Politics and Society; PSCI 3133, Mock Trial and Debate; PSCI 2060, International Law; PSCI 3100, Constitutional Law; and PSCI 4963, Legal Internship.

Minor in International Affairs - The minor in International Affairs prepares students for careers in the international arena. This program of study specifically prepares students for:

1. Careers in government service, particularly the Foreign Service of the United States, the Department of State, or any of the various federal agencies, which function in the international areas.
2. Careers in international business in the private sector.
3. Careers in the international civil service, serving with intergovernmental organizations, such as the United Nations, as well as with private international nongovernmental organizations.
The Minor in International Affairs requires 18 hours in the following courses: PSCI 2040, International Relations; PSCI 2060, International Law and Politics; PSCI 3040, International Organization; PSCI 3640, American Foreign Policy; PSCI 4100, International Political Economy; and PSCI 4640, Politics of Developing Nations. Of these, PSCI 2040, PSCI 4100 and PSCI 4640 are required. The remaining nine hours may be taken as electives from the courses listed above as well as from the other international courses offered in the department, namely PSCI 3240, 4050, and 4953/4956. Further, it is recommended that students pursuing a Minor in International Affairs also take a course in Economics, twelve (12) credit hours in a foreign language, and participate in a Study Abroad program for at least one semester.

Minor in Public Administration- The Public Administration minor consists of specialized Public Administration courses within the Political Science program of study. Such a minor can be used to complement majors in fields such as Business, Sociology, Education, History, Communications, Psychology, and allied health fields. Thus it offers majors in the liberal arts and humanities an opportunity to enhance their employability.

The Public Administration minor consists of 18 hours in courses pertaining to public administration, of which PADM 2050, 3500 or $3510,4530,4953$, and 3370 are required. In addition, no more than three hours may be taken in independent study courses (such as PADM 4903 or 4913).

Minor in International Studies -- See Interdisciplinary Minors.
Minor in Law and Humanities -- See Interdisciplinary Minors.
Recommended Pre-Law Preparation for Political Science Majors -- In its Pre-Law Handbook, the Law School Admission Council (LSAC) does not recommend a particular course of study for the pre-law student. Rather it encourages students to pursue a broadly-based program that trains them to understand the variety of ideas, forces, and institutions that have shaped society.

The Pre-Law advisor does, however, suggest specific courses which pre-law students may find helpful. Thus, Pre-Law preparation for political science majors consists of an individually tailored program based on faculty suggestions. It is recommended that a student use his/her Core Curriculum requirements, minor, and free electives to take courses from among the following courses. Writing, critical thinking and logical reasoning are enhanced through: 1) English 2020, 3275, or 3400, 2) History 3001, and 3) Philosophy 2040 , 3190 , or 3260 . Within the major, Political Science 2100, 3100, 3250 or 3270 are suggested.

Pre-Law students eligible for honors English and History courses are strongly advised to take advantage of these opportunities.

See also the Political Science Accelerated "Pre-Law" Program described immediately after the general program discussed below.

# PROGRAM IN POLITICAL SCIENCE FRESHMAN YEAR 

| Semester Hours |  |
| :---: | :---: |
| $\mathbf{1}^{\text {st }}$ | $\mathbf{2}^{\text {nd }}$ |
| Semester | Semest |

Political Science 1010/1020
English 1010-1020
Foreign Language
History 1030
Mathematics
Speech Communication 1010
Social Sciences*
Physical Education
Computer Competency Exam
University $1010 / 1020$

Political Science 2010/2040
Political Science 2050
Political Science 2511
African American Studies
English 2010
History 1040
Natural Science
Philosophy
emester
3 Intro to PSCI/American Govt.
3 Comp \& Rhetoric/Comp \& Lit.
3 Core Requirement
3 World Civilizations
Core Requirement
Fundamentals of Public Speaking
3 Core Requirement
Activity Course or Test
A\&S Requirement
Freshman Orientation

## SOPHOMORE YEAR

3 Research Methods/Int'l Relations
3 Intro. to Public Administration
3 Quantitative Analysis
3 Core Requirement
World Literature
Core Requirement
3 Core Requirement
Core Requirement
Core Requirement

Theology
Student Competency Exams

Political Science

Fine Arts
Philosophy
Social Science*
Minor
Free electives


JUNIOR YEAR

Incl. Political Thought or Modern Political Thought and Comparative Politics
Core Requirement
Core Requirement
Core Requirement

|  | SENIOR YEAR |  |  |
| :--- | :---: | :---: | :--- |
| Political Science | 9 | 6 | Electives |
| PSCI 4100 | 3 |  | Int'l Political Economy |
| Political Science 4999 |  | 0 | Senior comprehensives |
| Minor | 6 | 3 |  |
| Free Electives |  | 6 |  |
|  | 18 | 15 |  |

*The Social Sciences requirement must include 3 hours of economics. Students must take either ECON 1030, 2010 or 2020 plus either PSYC 1010 or SOCI 1010.

## SUMMARY

## Semester Hours

Semester Hours

| African American Studies | 3 | Physical Education | 1 |
| :--- | :--- | :--- | ---: |
| English | 9 | Political Science | 42 |
| Fine Arts | 3 | Social Science | 6 |
| Foreign Language | 6 | Speech Communication | 3 |
| History | 6 | Theology | 6 |
| Mathematics | 3 | Free Electives | 12 |
| Natural Sciences | 6 | Minor | 18 |
| Philosophy | 6 | Total Semester Hours | 130 |

## Political Science Accelerated "Pre-Law" Program

The Political Science Department offers an accelerated "pre-law" program for political science majors. All students complete a three-year liberal arts education program at Xavier (103 hours). In their senior year, students enroll at an American Bar Association accredited law school. After successfully completing 27 hours at law school, the student receives a B.A. degree from Xavier.

To participate in the program, a student must maintain a cumulative average of 3.0 and register with the Pre-Law Advisor throughout his/her three years at Xavier. The proposed course of study and transfer hours must be approved by the department. A student's minor should be any subject which 1) develops analytical skills, 2) develops writing skills, and/or 3) relates to the student's proposed law specialty. For example, another social science discipline, history, English, philosophy, business administration, mathematics, physical science, foreign language, computer science, or public administration may be selected as a minor, or an interdisciplinary program such as the Law \& Humanities Minor may be chosen. The student should delay taking free electives and the electives in the major to be eligible for the accelerated program.

The program does not assure a student's entry into law school. Admission to an accredited law school is the responsibility of the student. Several law schools in the United States allow admission to the exceptional student without an undergraduate degree. The student interested in Pre-Law should see the Pre-Law Advisor at his or her first Xavier registration.

# POLITICAL SCIENCE ACCELERATED <br> "PRE-LAW" PROGRAM 

FRESHMAN YEAR
Semester Hours


Political Science 1010/1020
English 1010-1020
Semester Semester
33 Intro. to PSCI./American Govt.
Foreign Language
History 1030
Mathematics
Speech Communication 1010
Social Sciences
Physical Education
Computer Competency Exam
University 1010-1020

Political Science 2010/2040
Political Science 2050
Political Science 2511
English 2010
History 1040
3
3
Social Sciences 3
Natural Science 3
Theology 3
Minor
Student Competency Exams

## SOPHOMORE YEAR

$3 \quad 3$ Research Met./Int'l Relations
3 Intro. to Public Administration
3 Quantitative Analysis
World Literature I Core Requirement Core Requirement
3 Biology recommended
$3 \quad 3 \quad$ Core Requirement
3

|  | 0 |
| :---: | :---: |
| 18 | 18 |

JUNIOR YEAR
Political Science
63
Incl. Political Thought or
Modern Pol. Thought, Comparative. Politics, Int'l. Pol. Economy, Public
Admin
Political Science 4999
African American Studies
0 Senior Comprehensives
Core Requirement
Philosophy
Logic recommended
Fine Arts
3
Minor

| 6 | 9 |
| :---: | :---: |
| 18 | 18 |

Credits Accepted from Law School:

Towards Political Science Major $\quad 15 \quad$| (usually Con. Law, Crim. Law, |
| :---: |
| Jurisprudence, and Legal Sys.) |

|  | SUMMMARY |  |  |
| :--- | ---: | :--- | ---: |
|  | Semester Hours |  | Semester Hours |
| African American Studies | 3 | Physical Education | 1 |
| English | 9 | Political Science | 42 |
| Fine Arts | 3 | Social Sciences | 6 |
| Foreign Language | 6 | Speech Communication | 3 |
| History | 6 | Theology | 6 |
| Mathematics | 3 | Free Electives | 12 |
| Natural Sciences | 6 | Minor | 18 |
| Philosophy | 6 | Total Semester Hours | 130 |

## Political Science Accelerated "Public Affairs" Program

The Political Science Department offers an accelerated public affairs program for political science majors. In three years, students must complete 103 hours toward a liberal arts educational program. Students will satisfy the requirements of the core curriculum ( 55 hours), minor ( 18 hours), and major ( 30 hours). Students enroll in a graduate program of public affairs during the senior year. After successfully completing 25 hours of graduate school courses, the student receives a B.A. degree from Xavier.

In order to be eligible for this program, a student must average 17 hours a semester for three years (summer school courses may supplement this average), maintain a 3.0 grade point average, and register an intent to pursue the accelerated program with the Public Affairs Advisor in the Political Science Department. Students must avoid taking free electives as well as electives in the major to fulfill the objectives of the accelerated program. Although a student may select any minor that will enhance a public affairs specialization, the Public Administration minor is highly recommended for successful completion of a graduate program in public affairs.

This program does not guarantee entry into a public affairs program. The admissions process and financial assistance are solely the responsibility of the student. The student interested in schools that accept applicants on an accelerated basis should see the Public Affairs Advisor.

Students pursue careers in public affairs with the idea of becoming effective leaders and managers in public, non-profit, and private organizations. These include city, state, and federal government agencies; companies and faith based organizations providing social services; and charities and philanthropies. Typically, students pursue master's degrees in public administration, public policy, urban and regional planning, and non-profit management.

# POLITICAL SCIENCE ACCELERATED "PUBLIC AFFAIRS" PROGRAM 

 FRESHMAN YEARPolitical Science 1010/1020
Political Science 1020
English 1010-1020
Fine Arts
History 1030-1040
Mathematics
Speech Communication 1010
Philosophy
Computer Competency Exam
University 1010-1020

| Semester Hours |  |
| :---: | :---: |
| $1{ }^{\text {st }}$ | $2^{\text {nd }}$ |
| Semester | Semester |
| 3 | 3 In |
| 3 | A |
| 3 | 3 Co |
|  | 3 |
| 3 | 3 W |
| 3 | C |
|  | 3 F |
|  |  |
| 0 | A |
| 0 | 0 Fr |
| 15 | 18 |

Intro. to PSCI./Comp. Politics American Government
Political Science 1020
3 Comp \& Rhetoric/Comp \& Lit.
Fine Arts
History 1030-1040
3 World Civilizations
Core Requirement
Speech Communication 1010
Philosophy
University 1010-1020

## SOPHOMORE YEAR

Political Science 2010/2511
Political Science 2040/2050
English 2010

| 3 | 3 | Research Met./Quant. Analysis |
| :---: | :---: | :---: |
| 3 | 3 | Inter. Relations/Public Admin. |
| 3 |  | World Literature I |
| 3 | 3 | Core Requirement |
| 3 | 3 | Core Requirement |
| 3 | 6 |  |
|  | 0 |  |
| 18 | 18 |  |

Political Science 3250 or 3270
Political Science 4100/3360
Political Science 4999
African American Studies
Philosophy Physical Education 1
Social Sciences
Theology
Minor

## JUNIOR YEAR

3 Political Thought or Mod. Pol. Thght
33 Int'l. Pol. Economy/Public Policy
0 Senior Comprehensives
3 Core Requirement
3 Core Requirement Core Requirement
Core Requirement
3 Core Requirement - Economics
3 Core Requirement

## Credits Accepted from Public Affairs Graduate School:

Towards Political Science Major
12
Free electives
Total Transfer Credits
Total Credits Earned at Xavier
Total
13
25
103
128
SUMMARY
Semester Hours

| African American Studies | 3 | Physical Education | 1 |
| :--- | :--- | :--- | ---: |
| English | 9 | Political Science | 42 |
| Fine Arts | 3 | Social Sciences | 3 |
| Foreign Language | 6 | Speech Communication | 3 |
| History | 6 | Theology | 6 |
| Mathematics | 3 | Free Electives | 13 |
| Natural Sciences | 6 | Minor | 18 |
| Philosophy | 6 | Total Semester Hours | 128 |

## DEPARTMENT OF PSYCHOLOGY

The Psychology Program strives to provide its students with a thorough foundation in the methodology of contemporary psychology. Students successfully completing the four-year program are awarded the degree of Bachelor of Science and are prepared both for graduate study in psychology and related fields, as well as for a limited number of career opportunities in psychology at the bachelor's degree level. Primary emphasis is placed on preparing students for graduate study. In addition to satisfying the goals of the core curriculum, the program of study in psychology is designed to:

1. prepare students majoring in psychology for either professional employment or further graduate training; and
2. offer courses to students from other disciplines whose curriculum requires them to take special courses in psychology.

Students majoring in psychology are offered a well-balanced program that has a central core, plus a sufficient number of electives that permit them to enter a variety of graduate programs in psychology at a competitive level. The rigorous preparation of students majoring in psychology is consistent with the American Psychological Association's Model Curriculum and with the overall University philosophy of academic excellence. The major in psychology consists of a minimum of 42 semester hours of psychology coursework with a " C " or better in each course.

Additionally, Clinical Practicum (two semesters required) is strongly recommended for those majors with a 3.0 grade point average in psychology who are interested in entering a graduate program in Clinical or Counseling Psychology: PSYC 4398 and 4399.

SENIOR COMPREHENSIVES: It is suggested that all majors take the advanced (subject) portion of the Graduate Record Examination (GRE) during the semester BEFORE the one in which they graduate. Majors who score better than 560 on the advanced GRE are exempt from taking the Departmental Senior Comprehensives, which consist of intensive examinations across all subject areas in psychology.

Students in the Psychology Program are expected to acquire and exhibit the following academic and professional characteristics:

1. Competence in subject matter,
2. Competence in written and oral communication skills,
3. Familiarity with computers, and
4. Poise, self-confidence, and a commitment to ethics in science.

Minor in Psychology -- Students selecting a minor in psychology must complete a minimum of 18 semester hours of courses offered within the Psychology Department at Xavier. PSYC 1010 (Introductory Psychology) is required. Students who elect to take upper level courses must meet the prerequisites for those courses, if they are required.

## GENERAL PSYCHOLOGY PROGRAM:

Students will take a minimum of 42 credit hours of psychology as offered within the Psychology Department, from five different categories of offerings:

CATEGORY 1: Introduction and Basic Sciences: Students must take the following four specific courses (12 hours).
hours

| PSYC 1010 | 3 | Introductory Psychology (prerequisite for all courses) |
| :--- | :--- | :--- |
| PSYC 2020 | 3 | Experimental Psychology (prerequisite for 2512) |
| PSYC 2511 | 3 | Analytic Research (prerequisite for 2512) |
| PSYC 2512 | 3 | Introduction to Research |

CATEGORY 2: Basic Research (Theoretical): Students must take a minimum of 9 hours from among the following:

| PSYC 1012 | 3 | Human Development |
| :--- | :--- | :--- |
| PSYC 2070 | 3 | Comparative Psychology |
| PSYC 2110 | 3 | Human Sexuality |
| PSYC 3010 | 3 | Social Psychology |
| PSYC 3030 | 3 | Cognitive Psychology |
| PSYC 3050 | 3 | Physiological Psychology |
| PSYC 3100 | 3 | Psychology of Learning |
| PSYC 4010 | 3 | Theories of Personality |

CATEGORY 3: Applied Research and Clinical: Students must take a minimum of 9 hours from among the following:

|  | hours |  |
| :--- | :---: | :--- |
| PSYC 3025 | 3 | Adult Development and Aging |
| PSYC 3045 | 3 | Industrial/Organizational |
| PSYC 3080 | 3 | Abnormal Psychology |
| PSYC 3090 | 3 | Forensic Psychology |
| PSYC 3110 | 3 | Psychotherapies |
| PSYC 3120 | 3 | Tests and Measurements |
| PSYC 4050 | 3 | Psychopharmacology |
| PSYC 4080 | 3 | Community Psychology |

CATEGORY 4: Special and Advanced Topics: Students must take a minimum of 3 hours from among the following:

|  | hours |  |
| :--- | :---: | :--- |
| PSYC 2080 | 3 | Writing in Psychology |
| PSYC 3041 | 3 | Black Psychology |
| PSYC 3200L | 1 | Psychology Laboratory |
| PSYC 4000S | 3 | Seminar (Offered rarely) |
| PSYC 4030 | 3 | The Psychology of Group Dynamics |
| PSYC 4040 | 3 | Psychology of Gender |
| PSYC 4398 | 3 | Clinical Practicum I |
| PSYC 4399 | 3 | Clinical Practicum II |
| PSYC 4011 | 1 | Independent Study (Offered only as needed) |
| PSYC 4012 | 2 | Independent Study (Offered only as needed) |
| PSYC 4013 | 3 | Independent Study (Offered only as needed) |

CATEGORY 5: Capstone Experience: Students take 3 hours.
hours
PSYC 49963 Historical and Applied Perspectives in Psychology

IN ADDITION to the hours indicated above, students must take 6 more hours of "general psychology electives" selected from CATEGORIES 2, 3, or 4. UNLESS TRANSFERRED IN FROM ANOTHER INSTITUTION, THESE GENERAL PSYCHOLOGY ELECTIVES MUST BE TAUGHT BY THE PSYCHOLOGY DEPARTMENT.

## PSYCHOLOGY PREMEDICAL PROGRAM:

Students will take a minimum of 33 credit hours of psychology, from five different categories of offerings within the Psychology Department,:

CATEGORY 1: Introduction and Basic Sciences: Students must take the following three specific courses (9 hours).
hours
PSYC 10103 Introductory Psychology (prerequisite for all courses)
PSYC $2020 \quad 3 \quad$ Experimental Psychology (prerequisite for 2512)
PSYC 25123 Introduction to Research

CATEGORY 2: Basic Research (Theoretical): Students must take 9 hours from among the following:

CATEGORY 3: Applied Research and Clinical: Students must take 9 hours from among the following:

| PSYC 3025 | 3 | Adult Development and Aging |
| :--- | :--- | :--- |
| PSYC 3045 | 3 | Industrial/Organizational |
| PSYC 3080 | 3 | Abnormal Psychology |
| PSYC 3090 | 3 | Forensic Psychology |
| PSYC 3110 | 3 | Psychotherapies |
| PSYC 3120 | 3 | Tests and Measurements |
| PSYC 4050 | 3 | Psychopharmacology |
| PSYC 4080 | 3 | Community Psychology |

CATEGORY 4: Special and Advanced Topics: Students must take 3 hours from among the following:

|  | hours |  |
| :--- | :---: | :--- |
| PSYC 2080 | 3 | Writing in Psychology |
| PSYC 3041 | 3 | Black Psychology |
| PSYC 3200L | 1 | Psychology Laboratory |
| PSYC 4000S | 3 | Seminar (Offered rarely) |
| PSYC 4030 | 3 | The Psychology of Group Dynamics |
| PSYC 4040 | 3 | Psychology of Gender |
| PSYC 4398 | 3 | Clinical Practicum I |
| PSYC 4399 | 3 | Clinical Practicum II |
| PSYC 4011 | 1 | Independent Study (Offered only as needed) |
| PSYC 4012 | 2 | Independent Study (Offered only as needed) |
| PSYC 4013 | 3 | Independent Study (Offered only as needed) |

CATEGORY 5: Capstone Experience: Students take 3 hours. hours
PSYC 49963 Historical and Applied Perspectives in Psychology

NOTE: Psychology premedical students are not required to take any "general psychology electives".

## PROGRAM IN PSYCHOLOGY

FRESHMAN YEAR
$\underset{\mathbf{1}^{\text {st }}}{\text { Semester Hours }} \mathbf{2}^{\text {nd }}$

Psychology 1010-2020
Psychology 2511
English 1010-1020
Computer Science 1005
History 1030-1040
Mathematics
Philosophy
Speech Communication 1010
Physical Education
Computer Competency Exam
University 1010-1020

Psychology 2512
Psychology Choice*
Semester Semester



* PSYCHOLOGY CHOICE: 3 hours from among the following classes: hours
PSYC 10123 Human Development
PSYC $2070 \quad 3 \quad$ Comparative Psychology
PSYC 21103 Human Sexuality
PSYC $3010 \quad 3 \quad$ Social Psychology
PSYC $3030 \quad 3 \quad$ Cognitive Psychology
PSYC $3050 \quad 3 \quad$ Physiological Psychology
PSYC $3100 \quad 3 \quad$ Psychology of Learning
PSYC $40103 \quad$ Theories of Personality
** PSYCHOLOGY CHOICE: 3 hours from among the following classes:
hours
PSYC 30253 Adult Development and Aging
PSYC 30453 Industrial/Organizational
PSYC $3080 \quad 3 \quad$ Abnormal Psychology
PSYC $3090 \quad 3 \quad$ Forensic Psychology
PSYC $3110 \quad 3 \quad$ Psychotherapies
PSYC $3120 \quad 3 \quad$ Tests and Measurements
PSYC $4050 \quad 3 \quad$ Psychopharmacology
PSYC $4080 \quad 3$ Community Psychology
PSYC $2080 \quad 3 \quad$ Writing in Psychology

PSYC $3041 \quad 3 \quad$ Black Psychology
PSYC 3200L 1 Psychology Laboratory
PSYC 4000S $3 \quad$ Seminar (Offered rarely)
PSYC $4030 \quad 3 \quad$ The Psychology of Group Dynamics
PSYC $4040 \quad 3 \quad$ Psychology of Gender
PSYC $4398 \quad 3 \quad$ Clinical Practicum I
PSYC $4399 \quad 3 \quad$ Clinical Practicum II
PSYC $4011 \quad 1 \quad$ Independent Study (Offered only as needed)
PSYC $4012 \quad 2 \quad$ Independent Study (Offered only as needed)
PSYC $4013 \quad 3 \quad$ Independent Study (Offered only as needed)
NO ASTERISK PSYCHOLOGY CHOICE is a "Free Elective in Psychology." UNLESS
TRANSFERRED IN FROM ANOTHER INSTITUTION, THESE GENERAL PSYCHOLOGY ELECTIVES MUST BE TAUGHT BY THE PSYCHOLOGY DEPARTMENT.

|  | SUMMARY |  |  |
| :--- | ---: | :--- | ---: |
|  | Semester Hours | Semester Hours |  |
| African American Studies | 3 | Philosophy | 6 |
| Fine Arts | 3 | Physical Education | 1 |
| Computer Science | 3 | Psychology | 42 |
| English | 9 | Social Sciences | 3 |
| Foreign Language | 6 | Spech Communication | 3 |
| History | 6 | Theology | 6 |
| Mathematics | 3 | Free Electives | 10 |
| Natural Sciences\# | $6(8)$ | Minor | 18 |
|  |  | Total Semester Hours | 128 |

\#Eight hours of natural sciences are recommended instead of six.
Note: Clinical Practicum is recommended for those majors with a 3.0 grade point average in psychology. Hours taken as Clinical Practicum also count as elective hours.

## Psychology Pre-Medical Program

The discipline of psychology, in conjunction with the Pre-Medical program at Xavier University, offers its students an alternative route to careers via medical school or the health professions. This is the Psychology Pre-Medical Program. This program is recommended for those students who want to major in psychology but then attend medical school, generally in pursuit of a psychiatric degree, or who are interested in graduate programs in Biological Psychology or Neuroscience. The program is similar to the general psychology curriculum but involves heavier emphasis in the natural sciences. It also requires nine (9) fewer hours of psychology than does the general program.

SENIOR COMPREHENSIVES: For their senior comprehensives, students may choose to take the advanced (subject) portion of the Graduate Record Examination (GRE) during the semester before the one in which they graduate, or they can take the departmental comprehensives only. Majors who score better than 560 on the advanced GRE are exempt from taking the Departmental Senior Comprehensives, which consist of intensive examinations across all subject areas in psychology.

# PROGRAM IN PSYCHOLOGY (PRE-MEDICAL) 

FRESHMAN YEAR
Semester Hours
$\begin{array}{cc}1^{\text {st }} & 2^{\text {nd }} \\ \text { Semester } & \text { Semester }\end{array}$
Psychology 1010-2020
Chemistry 1010/1010D/1011L 1020/1020D/1021L
English 1010-1020
$4 \quad 4 \quad$ General Chemistry I - II
Mathematics 1020
33 Comp \& Rhetoric/Comp \& Lit.
Mathematics 1030 or 1070
Speech Communication 1010
Philosophy
3
Basic Statistics
4 Precalculus or Calculus I
3 Fundamentals of Public Speaking
Physical Education
1
0
Core Requirement
Activity Course or Test
Computer Competency Exam
University 1010-1020

## SOPHOMORE YEAR

Psychology 2512
Psychology Choice*
African American Studies
Biology 1230/1230L 1240/1240L
Chemistry 2210/2210D/2230L 2220/2220D/2240L
English 2010
History 1030-1040
Student Competency Exams

| 3 | 3 | Intro. to Research <br> See Listings Below <br> Core Requirement |
| :---: | :---: | :--- |
| 4 | 4 | General Biology I - II |
| 4 | 4 | Organic Chemistry I - II |
|  | 3 | World Literature I |
| 3 | 3 | World Civilizations |
|  | 0 |  |
| 17 | 17 |  |

JUNIOR YEAR

## Students should take the MCAT for the first time

 during the spring of the junior year.Psychology Choice*
Psychology Choice*
Psychology Choice**
Psychology Choice**
Chemistry 4130
Fine Arts
Philosophy 3
Physics 2010/2010L -
2020/2020L
Free Electives

Psychology Choice**
Psychology Choice***
Psychology 4996
Psychology 4999
Biology 4111/4111L or
Biology 3350/3350L
Biology 4091/4091L or
Biology 3161/3161L
Foreign Language
Social Sciences
Theology

3
See Listings Below
3 See Listings Below
3
See Listings Below
See Listings Below
3 Biochemistry Lecture
3 Core Requirement
Core Requirement
4
4 General Physics I - II

## SENIOR YEAR

3 See Listings Below
3 See Listings Below
3 Hist. \& App. Persp in Psyc.
0 Senior Comprehensives
Histology and Lab
Anatomy and Physiology and Lab
Comparative Anatomy and Lab
4 Embryology and Lab
3 Core Requirement
3 Core Requirement, other than PSYC 1010
Core Requirement

* PSYCHOLOGY CHOICE: 3 hours from among the following classes:

|  | hours |  |
| :--- | :---: | :--- |
| PSYC 1012 | 3 | Human Development |
| PSYC 2070 | 3 | Comparative Psychology |
| PSYC 2110 | 3 | Human Sexuality |
| PSYC 3010 | 3 | Social Psychology |
| PSYC 3030 | 3 | Cognitive Psychology |
| PSYC 3050 | 3 | Physiological Psychology |
| PSYC 3100 | 3 | Psychology of Learning |
| PSYC 4010 | 3 | Theories of Personality |

** PSYCHOLOGY CHOICE: 3 hours from among the following classes: hours
PSYC $3025 \quad 3 \quad$ Adult Development and Aging
PSYC $3045 \quad 3$ Industrial/Organizational
PSYC $3080 \quad 3 \quad$ Abnormal Psychology
PSYC $3090 \quad 3 \quad$ Forensic Psychology
PSYC $3110 \quad 3 \quad$ Psychotherapies
PSYC $3120 \quad 3 \quad$ Tests and Measurements
PSYC $4050 \quad 3 \quad$ Psychopharmacology
PSYC 40803 Community Psychology
*** PSYCHOLOGY CHOICE: 3 hours from among the following classes: hours
PSYC $2080 \quad 3 \quad$ Writing in Psychology
PSYC $3041 \quad 3 \quad$ Black Psychology
PSYC 3200L 1 Psychology Laboratory
PSYC 4000S $3 \quad$ Seminar (Offered rarely)
PSYC $4030 \quad 3 \quad$ The Psychology of Group Dynamics
PSYC $4040 \quad 3 \quad$ Psychology of Gender
PSYC $4398 \quad 3 \quad$ Clinical Practicum I
PSYC $4399 \quad 3 \quad$ Clinical Practicum II
PSYC $4011 \quad 1 \quad$ Independent Study (Offered only as needed)
PSYC $4012 \quad 2 \quad$ Independent Study (Offered only as needed)
PSYC $4013 \quad 3 \quad$ Independent Study (Offered only as needed)

NO ASTERISK PSYCHOLOGY CHOICE is a "Free Elective in Psychology." UNLESS
TRANSFERRED IN FROM ANOTHER INSTITUTION, THESE GENERAL PSYCHOLOGY ELECTIVES MUST BE TAUGHT BY THE PSYCHOLOGY DEPARTMENT.

|  | SUMMARY |  |  |
| :--- | ---: | :--- | ---: |
|  | Semester Hours | Semester Hours |  |
| African American Studies | 3 | Philosophy | 6 |
| Biology | 16 | Physical Education | 1 |
| Chemistry (minor) | 19 | Physics | 8 |
| English | 9 | Psychology | 33 |
| Fine Arts | 3 | Social Sciences | 3 |
| Foreign Language | 6 | Speech Communication | 3 |
| History | 6 | Theology | 6 |
| Mathematics | 7 | Free Electives | 5 |
|  |  | Total Semester Hours | 134 |

## DEPARTMENT OF SOCIOLOGY

The Department of Sociology provides a program of study leading to the Bachelor of Arts Degree. Students are expected to meet the requirements of the Sociology Department and the College of Arts and Sciences. The department is simultaneously committed to the Mission Statement of Xavier and the discipline of Sociology.

The goals of the department are:

1. To prepare majors for graduate study in sociology leading to the terminal degree;
2. To prepare majors for graduate and professional study in fields related to sociology;
3. To prepare students for employment in business and industry, education, government, media, and public and social service;
4. To provide students with a global perspective of society, cultures, and institutions; and
5. To develop critical and analytical reasoning skills of students most especially through the use of sociological research methods.

Students electing the major in sociology must earn 39 hours in sociology. In order for a major course to be counted for degree credit, a student must earn a "C" or better. SOCI 1010 is a prerequisite for all other sociology courses. The following courses are required for the B. A. in sociology: SOCI 1010, 2010, 2510, 2520, 3030, 3042, 3080, 4020, 4045, 4050, and three Sociology electives. Social Psychology, BHSC 3010, is also required.

In addition to offering the major in sociology, the department offers an accelerated major in the Sociology of Public Service, and three different programs for students who elect to minor in sociology. In order for a course to be counted for a minor, a student must earn a " $C$ " or better.

Minor in Applied Sociology-- This minor is suggested for students majoring in the program in Psychology (non-Pre-Med), Political Science, and other appropriate programs. This minor will assist students in their preparation for employment in public or social service, and graduate education in Social Work, Public Administration, Public Health, etc. The prerequisite of SOCI 1010 for all other courses is waived for students who choose this minor. This course of study requires 18 hours of course work including: nine (9) hours of specified courses which are: SOCI 1020, 3050, and 4100; and nine (9) hours to be chosen from the following:

1. Any three hours chosen from the following courses: SOCI 2000, 2010, 2050, 2055,2510 , or 2520 ; and
2. Any six hours chosen from the following courses: SOCI 3060, 3070, 3100, $3250,3300,4000,4010,4020,4040,4042,4045$, or 4050.

Minor in Social Policy -- This program is suggested for students majoring in political science, history or other areas with a focus on social policy. This course of study requires 18 hours of coursework including SOCI 1010, 2010, 2510 or 2520, 3030, 3080, and a Sociology elective.

Minor in Sociology -- This program requires 18 hours of coursework including SOCI 1010, 2010, 3030, 3042, 4020 and one Sociology elective.

## Sociology Department Concentrations

The Sociology Department also offers two concentrations each requiring a minimum of 12 hours in Sociology beyond Introduction to Sociology. These concentrations are Legal Sociology and Social Stratification. Each concentration gives students a more focused understanding of two of the major areas in Sociology, and allows students to move more comfortably into graduate school or the professional world. Students must earn a "C" or better in all required concentration courses.

Concentration in Legal Sociology - Students interested in the fields of Criminal Justice, Criminology, or Deviance or the profession of law and public policy would greatly benefit from this concentration. Required courses include: SOCI 2042, Introduction to Criminal Justice; SOCI 3042, Deviance; SOCI 3044, Criminology; and SOCI 4042, Sociology and Law.

Concentration in Social Stratification - This concentration is suggested for students majoring/minoring in African American Studies, Political Science, Psychology, Business, the Natural Sciences, and those interested in social policy development, public service, public health, criminal justice, and medicine. Required courses are: SOCI 2060, Race and Ethnicity; SOCI 3080, Social Stratification; SOCI 3085, Sociology of the African American Experience, and SOCI 4950S, Sociology of Women.

Sociology 1010-2010
English 1010-1020
History 1030-1040
Mathematics 1010
Physical Education
Political Science 1010 or 1020
Psychology 1010
Speech Communication 1010
Computer Competency Exam
University 1010-1020

Sociology 2510
Sociology 2520
Sociology
African American Studies
English 2010
Foreign Language
Natural Science
Philosophy
Theology
Student Competency Exams

## PROGRAM IN SOCIOLOGY

FRESHMAN YEAR
Semester Hours

| $1^{\text {st }}$ | $2^{\text {nd }}$ |
| :---: | :---: |
| Semester | Semester |

$3 \quad 3 \quad$ Intro to Sociology/Social Problems
33 Comp \& Rhetoric/Comp \& Lit.
33 World Civilizations
3 Modern Mathematics
1 Activity Course or Test
3 Intro to Pol. Sci or Amer. Govern.
3 Introduction to Psychology

3 Fundamentals of Public Speaking | 0 |  | $\begin{array}{c}\text { A\&S Requirement } \\ 0\end{array}$ |
| :---: | :---: | :--- |
| 15 | 0 | Freshman Orientation |

## SOPHOMORE YEAR

| 3 |  | Quant. Res. Meth. \& Soc. Statistics <br> Qualitative Research Methods |
| :--- | :--- | :--- |
|  | 3 | Sociology 2000-level Elective |
|  | 3 | Core Requirement |
| 3 | 3 | World Literature I |
| 3 | 3 | Core Requirement |
| 3 |  | Core Requirement |
| 3 |  | Core Requirement |
|  | 0 | Core Requirement |
| 15 | 15 |  |

Sociology 3030
Sociology 3042/3080
Sociology Electives
Behavioral Science 3010
Fine Arts
Natural Science
Philosophy
Theology
Minor

Sociology 4050/4045
Sociology 4020
Sociology 4999
Minor
Free electives

## JUNIOR YEAR

| 3 |  | Sociological Theory <br> 3 |
| :---: | :---: | :--- |
| 3 | 3 | Deviance/Social Stratification |
|  | 3 | Social Psychology |
|  | 3 | Core Requirement |
| 3 | 3 | Core Requirement |
| 3 | 3 | Core Requirement |
| 6 |  | Core Requirement |
| 18 | 18 |  |

## SENIOR YEAR

| 3 | 3 | Social Organ./Compar. Societies |
| :---: | :---: | :--- |
|  | 3 | Urban Sociology |
|  | 0 | Senior Comprehensives |
| 6 | 6 |  |
| 7 | 3 |  |
| 16 | 15 |  |

## SUMMARY

## Semester Hours

African American Studies 3
Behavioral Science 3
English 9
Fine Arts 3
Foreign Language 6
History 6
Mathematics 3
Natural Sciences 6
Philosophy 6
Semester Hours
Physical Education ..... 1
Social Sciences ..... 6
Sociology ..... 39
Speech Communication ..... 3
Theology ..... 6
Free Electives ..... 10
Minor ..... 18
Total Semester Hours ..... 128

# ACCELERATED PROGRAM IN SOCIOLOGY 

 OF PUBLIC SERVICE
## FRESHMAN YEAR

| Semester Hours <br> $\mathbf{1}^{\text {st }}$ <br> Semester | $\mathbf{2}^{\text {nd }}$ |
| :---: | :---: |
| Semeste |  |

Sociology 1010-2010
English 1010-1020
History 1030-1040
Mathematics 1010
Physical Education
Social Sciences
Speech Communication 1010
Computer Competency Exam
University 1010-1020

| Semer | 3 | Intro to Sociology/Social Problems |
| :---: | :---: | :--- |
| 3 | 3 | Comp \& Rhetoric/Comp \& Lit. |
| 3 | 3 | World Civilizations <br> 3 |
|  | 1 | Modern Mathematics <br> Activity Course or Test <br> 3 |
|  | 3 | Core Requirement (ECON 2010-2020 <br> STRONGLY Recommended) |
| 0 | 3 | Fundamentals of Public Speaking <br> A\&S Requirement |
| 0 | 0 | Freshman Orientation |

## SOPHOMORE YEAR

Sociology 2510
Sociology 2520
African American Studies
Biology 1050
English 2010
Fine Arts
Foreign Language
Philosophy
Theology
Student Competency Exams

Sociology 3020
Sociology 3030
Sociology 3080
Sociology 3085
Sociology 3100
Sociology 4020
Sociology 4040
Sociology 4999
Natural Science
Minor

3 Quant. Res. Meth. \& Soc. Statistics
3 Qualitative Research Methods
3 Core Requirement Environmental Biology
3 World Literature I
Core Requirement
Core Requirement
Core Requirement
Core Requirement
0
18
JUNIOR YEAR
3 Political Sociology
3 Sociological Theory
3 Social Stratification
Soc. of the African Amer. Experience
Social Policy
Urban Sociology
Social Change
Senior Comprehensives
Core Requirement

## Credits Accepted from Graduate School:

| Towards Sociology Major | 6 |
| :--- | :---: |
| Towards Minor | 6 |
| Free Electives | 13 |
|  | 25 |

## SUMMARY

## Semester Hours

Semester Hours

| African American Studies | 3 | Physical Education | 1 |
| :--- | :--- | :--- | ---: |
| English | 9 | Social Sciences | 6 |
| Fine Arts | 3 | Sociology | 39 |
| Foreign Language | 6 | Speech Communication | 3 |
| History | 6 | Theology | 6 |
| Mathematics | 3 | Free Electives | 13 |
| Natural Sciences | 6 | Minor | 18 |
| Philosophy | 6 | Total Semester Hours | 128 |

## DEPARTMENT OF THEOLOGY

The Theology Program promotes a more just and humane society within the context of faith and theological reflection. It enables students to understand the discourse of the human experience of God by means of an historical critical approach.

A major in Theology challenges our students to the universal call to actively engage in the transformation of society. Thus, students are prepared to assume positions of leadership in academia and/or professional life. In keeping with the call to transform society, the theology program prepares students for a variety of academic, professional and service opportunities.

The Theology program requires Theology majors to take 1100, 1120, 1170, 3010S, 3012S, 3020 S and 4999. In addition, majors must take 15 hours in any one of the following three areas: Fundamentals of Theology, Historical Theology, Biblical Studies. They must also take 15 hours of Theology electives and a minimum of 12 hours of 3000/4000 level Theology courses.

The Minor in Theology consists of 18 hours of Theology courses. The requirements for the minor are: 1120, one of 1100/1170, and any four (4) upper level theology courses. Students who wish to take electives in Theology after the Core requirement has been fulfilled may register for courses on any level.

Theology 1100
Theology 1120
Theology 1170
English 1010-1020
Foreign Language
History 1030-1040
Mathematics 1010-1020
Physical Education
Computer Competency Exam
University 1010-1020

Theology
English 2010-2020
Fine Arts
Foreign Language
Natural Sciences
Philosophy
Speech Communication 1010
Student Competency Exams

Theology
Theology 3010S-3012S
Philosophy
Social Sciences
Minor

PROGRAM IN THEOLOGY
FRESHMAN YEAR
Semester Hours

| $1^{\text {st }}$ | $\mathbf{2}^{\text {nd }}$ |
| :---: | :---: |
| Semester | Semester |

3 The Christian Faith
3 Intro. to Biblical Studies
3 Introduction to Theology
33 Comp \& Rhetoric/Comp \& Lit.
3 Core Requirement
33 World Civilizations
33 Modern Math/Basic Statistics
1 Activity Course or Test
$0 \quad$ A\&S Requirement

| 0 | 0 | Freshman Orientation |
| :---: | :---: | :---: |
| 16 | 15 |  |

## SOPHOMORE YEAR

| 6 | 6 | Theology courses |
| :---: | :---: | :--- |
| 3 | 3 | World Literature |
| 3 | 3 | Core Requirement |
| 3 | 3 | Core Requirement |
| 3 | 3 | Core Requirement |
| 3 | 3 | Core Requirement |
|  | 0 | Fundamentals of Public Speaking |
|  | University Requirement |  |

## JUNIOR YEAR

| 9 | 3 | Theology courses |
| :---: | :---: | :---: |
| 1 | 1 | Theology Seminar |
|  | 3 | Core Requirement |
| 3 | 3 | Core Requirement |
| 3 | 6 |  |
| 16 | 16 |  |

## SENIOR YEAR

Theology
Theology 3020S
Theology 4999
African American Studies Free Electives/Minor

3 3
1
-
Theology courses Theology Seminar
$0 \quad$ Senior Comprehensives Core Requirement
3
10
$17 \quad 12$

## SUMMARY

## Semester Hours

## Semester Hours

## African American Studies <br> 3

English ..... 12
Fine Arts ..... 3
Foreign Language ..... 6
History ..... 6
Mathematics ..... 6
Natural Sciences ..... 6
Philosophy ..... 6

## GENERAL INFORMATION

The Xavier University College of Pharmacy holds a place of distinction among the nation's colleges of pharmacy. The College is dedicated to bringing minority youth into the learned profession of pharmacy. For years, Xavier has enrolled more African Americans than any other college of pharmacy in the United States. Even with that commitment to minority education, the College remains open to all races.

Within the mission of Xavier University of Louisiana, the College of Pharmacy is dedicated to three goals:

1. Student development to prepare pharmacists who are competent to deliver pharmaceutical care as required in a dynamic health environment and to serve the profession and community by providing contemporary, innovative and quality patient-centered health care;
2. Collaborative scholarship to acquire and disseminate new knowledge; and
3. Service to promote a more just and humane society.

To achieve these goals, the curriculum provides:

1. Instruction in the physical, chemical, biological, behavioral sciences, and management, and in the humanities;
2. A clinical component designed to develop graduates skilled in:
a. Monitoring and evaluating drug therapy,
b. Providing drug distribution,
c. Providing drug information to other members of the health care team and to the public, and
d. Effectively relating to patients and to other health care professionals;
3. Motivation to increase competency after graduation through continuing education; and,
4. An opportunity to engage in meaningful scientific research as a preparation for further study in pharmaceutical and clinical sciences.

Xavier offers the Doctor of Pharmacy (Pharm. D.) degree obtainable through the entry-level six-year program (two years of pre-pharmacy and four years in the professional program). Students benefit from expert guest lecturers, and receive experiential training from preceptors in New Orleans' vast array of community pharmacies, hospitals and other health care facilities.

## ADMISSION TO THE COLLEGE OF PHARMACY

The two-year pre-pharmacy curriculum is offered in the College of Arts and Sciences. Upon completion of this curriculum the student should have 65 semester hours of credit. All conditions stipulated in the admissions notice and/or deficiency letter must be presented to the College of Pharmacy admissions office by August 1 prior to enrolling for the first year.

Applicants (including Xavier pre-pharmacy students) who have completed or who are about to complete pre-pharmacy requirements should submit: (1) application form for admission to the College of Pharmacy, (2) three letters of recommendation, (3) statement of interest, and (4) a transcript from each college (two and four year) previously attended. The deadline for applications to the College of Pharmacy is December $15^{\text {th }}$.

Xavier pre-pharmacy students must apply by October $15^{\text {th }}$ during the fall semester.
Students transferring from another College of Pharmacy of other professional school must submit a letter of good standing from the dean of that college. A personal interview is granted to selected applicants.

Transfer students will be processed for admission according to the following procedures:

- By December $15^{\text {th }}$, all applications and other official supporting documents must be in the Admissions Office.
- Non-refundable Acceptance deposits of $\$ 500$ are due as designated on the acceptance letter.

General ethics courses will not be considered in fulfillment of the health ethics requirements at Xavier University of Louisiana. Transfer credit for PHIL 2400 Health Ethics must be a comparable course in either bioethics, medical ethics or health ethics. Any course transferred from an institution other than Xavier shall be subject to review by the Department of Philosophy.

Students transferring to Xavier from another college or university must also comply with the requirements for admission to Xavier University. In addition, any required pre-pharmacy course that cannot be substituted with courses from the student's transcript must be completed. Only grades of "C" or better in acceptable courses will transfer to Xavier University of Louisiana.

## COLLEGE OF PHARMACY ACADEMIC POLICIES

The Pharmacy Academic Standing Committee evaluates all students' progress in the professional curriculum at the end of each academic year and/or each semester when necessary. Those students whose grade point averages fall below 2.0 are recommended by the committee to the Dean for probationary status. Probationary status may be removed when the student has achieved a College of Pharmacy grade point average of at least 2.0.

## REQUIREMENTS FOR THE DOCTOR OF PHARMACY DEGREE

To be eligible for the degree of Doctor of Pharmacy (Pharm. D.), a student must have pursued college level work for six years (four of these in the College of Pharmacy) and have completed 201 semester hours of work. The student must have a 2.00 grade point average for courses attempted in the four-year professional curriculum. The semester hours of work are to be distributed among the various fields and courses according to the program of study.

## LICENSURE

In addition to graduation from an accredited school of pharmacy, an applicant for examination and licensure in Louisiana must be a United States citizen or have permanent resident status and must have acquired 1500 hours of practical experience under the instruction and supervision of a registered pharmacist. These 1500 hours are to be acquired according to the guidelines of the Louisiana State Board of Pharmacy. Graduates are eligible to pursue licensure in states of their choice provided they meet the relevant requirements of those states.

# PRE-PHARMACY PROGRAM COLLEGE OF ARTS AND SCIENCES 

FRESHMAN YEAR
Semester Hours
1st 2nd
Semester Semester
4 General Biology
Biology 1230/1230L
Chemistry 1010/1010D/1011L 1020/1020D/1021L
English 1010-1020
$44 \quad$ General Chemistry I - II
33 Comp \& Rhetoric/Comp \& Lit.
4 Precalculus
Psychology 1010 or
Sociology 1010
3 Intro to Psych or Sociology
Speech Communication 1010

|  | 3 | Fundamentals of Public Speaking |
| :---: | :---: | :--- |
|  | 3 |  |
| 0 | 0 | Freshman Orientation |
| 14 | 17 |  |

## SOPHOMORE YEAR <br> \section*{4}

Biology 1240/1240L
Biology 2010
Chemistry 2210/2210D/2230L 2220/2220D/2240L
Physics 2030
4

Economics 1030
3
Mathematics 1070
3
4 General Biology
3 General Microbiology
Academic Elective*
University 1010-1020

4 Organic Chemistry I - II General Physics

Philosophy 3
Philosophy 2400
3 - 4 Phoductory Calculus
Philosophy Requirement
Theology
Student Competency Exams
3 Theology Requirement

|  | 0 |
| :---: | :---: |
| 17 | 17 |

## Semester Hours

| Biology | 11 |
| :--- | ---: |
| Chemistry | 16 |
| Economics | 3 |
| English | 6 |
| Mathematics | 8 |
| Philosophy | 6 |1

6
3
6
8
6
*This cannot be a pharmacy, mathematics, science, or physical education course.

## ENTRY-LEVEL PROFESSIONAL PROGRAM Doctor of Pharmacy

Pharmacy majors should note that health care is a rapidly changing field. To remain current with changes occurring in the practice of pharmacy, the academic program is subject to periodic revision of curricular content and requirements. Although overall program length will not be affected, students currently enrolled at the time of such revision will be held responsible for any new requirements. Opportunity to meet any new requirements will be provided within the constraints of the standard academic calendar. This policy is necessary to assure that graduates are well prepared to assume a progressive pharmacy practice in a dynamic health care environment. Students should consult with their advisors on a frequent basis to assure that current degree requirements are met.

PHCL 3350
PHCL 3450/3450L - 3460
PHCY 3030-3040
PHCY 3041
PHCY 3150
PHCY 4600/4600D
PHCT 4050/4050L
PHSC 3622
PHSC 3640
PHSC 4120
FIRST YEAR
Semester Hours
$1^{\text {st }} \quad$ 2nd

Semester Semester

| 2 |  | Biomedical Immunology |
| :---: | :---: | :---: |
| 4 | 3 | Human Anatomy/Human Phys. |
| 2 | 2 | Intro. To Pharmacy I - II |
|  | 1 | Pharmacy Skills Lab I |
| 2 |  | Pharmacy Calculations |
| 3 |  | Biostatistics/Biostatistics Drill |
|  | 4 | Pharmaceutics I |
|  | 2 | Principles of Drug Action |
|  | 3 | Molecular Biol. \& Biotechnology |
| 3 |  | Pharmaceutical Biochemistry |
| 6 | 15 |  |

## SECOND YEAR

PCLN 4660
PHAD 4450
PHCH 4450-4460
PHCL 4310
PHCL 4510-4520/4520L

|  | 4 | Disease State Management I <br> Behaviorial Pharmacy/ Comm. <br> 3 |
| :---: | :---: | :--- |
| 4 | 3 | Medicinal Chemistry I-II <br> Pathophysiology |
| 4 | 4 | Pharmacology I-II <br> 3 |
| 1 | 3 | Pharmaceutics II <br> Biopharm/Bsc Pharmacokinetics <br> Pharmacy Skills Lab 2-3 <br> Pharmaceutical Sciences Lab |
| 1 | 1 | 17 |

THIRD YEAR
PCLN 4370/4370L
PCLN 4590
PCLN 4670-4680
PHAD 4410
PHAD 4430
PHAD 4520
PHCY 4054-4055
PHCY 4310-4320
PHCY 4430
Pharmacy Elective

4
3
Applied Pharmacokinetics
$4 \quad 4$ Disease State Management II-III
3 Pharmacy Management
3 Practice Management /P'coecon.
2 Pharmacy Law
$1 \quad 1$ Pharmacy Skills Lab 4-5
11 Research \& Literature Eval. I-II
3 Basic and Clinical Nutrition
2(3) Pharmacy Elective

# FOURTH YEAR (Including Summer Session) <br> Ten 1-Month Rotations <br> (4 semester hours each) 

PCLN 5002-5003
PCLN 5102-5103
PCLN 5212, -22, -32, -42, -52, -62
PHCY 5500

Community Pharmacy Externships
Hospital Pharmacy Externships
Clinical Clerkships
Seminar

|  | SUMMARY |  |  |
| :--- | ---: | :--- | ---: |
|  | Semester Hours |  | Semester Hours |
| Biology | 7 |  | 6 |
| Chemistry | 3 | Pharmaceutical Sciences | 14 |
| Pharmacy Administration | 10 | Pharmacology | 20 |
| Pharmacy Clinical | 59 | Pharmacy (required) | $2(3)$ |
| Pharmaceutics | 10 | Pharmacy Elective | $137(138)$ |
| Pharmaceutical Chemistry | 6 | Total Semester Hours |  |

## COLLEGE OF PHARMACY COURSE SYMBOLS

Division of Clinical and Administrative Sciences:
PCLN -- Clinical Pharmacy
PHAD -- Pharmacy Administration
PHCY -- Pharmacy
Division of Basic Pharmaceutical Sciences:
PHCH -- Medicinal Chemistry
PHCT -- Pharmaceutics
PHCL --- Pharmacology
PHCY -- Pharmacy
PHSC -- Basic Pharmaceutical Sciences

# GRADUATE SCHOOL 

## PURPOSE

The Graduate School of Xavier University was opened in September 1933 in response to requests from persons in the New Orleans area who wished an opportunity to pursue graduate studies. While promoting respect for individual differences through a supportive and caring environment, the Graduate School seeks to foster the values of human concern and ethical practices consistent with the Judeo-Christian tradition. The purpose, therefore, is to educate men and women to advance the quality of human life through scholarship, teaching, and service.

Scholarship, teaching and service are integral to the student's educational experience beyond the classroom into the community at large. As part of the educational experience, the Graduate School encourages faculty-student and student-student relationships in an effort to cultivate respect for the individual and foster human development.

The Graduate School offers the Master of Arts, the Master of Arts in Teaching, and the Master of Theology degrees. The programs focus on the disciplines of education and theology.

## EDUCATION PROGRAMS

The Graduate School offers course work for the Master's Degree in administration and supervision, counseling, and curriculum and instruction. Areas of specialization are listed below. Add-on certification programs are offered in gifted education and educational technology. Programs are also offered for initial Louisiana teacher certification. The Practitioner Teacher Program is a fast track teacher certification program that can only be started during the summer session. It consists of graduate level coursework that can be used towards the Master of Arts in Teaching (MAT) degree. The MAT is a teacher certification program that can be completed at the candidate's own pace.

Both alternate routes in teacher certification require that potential candidates successfully pass all parts of Praxis I and the subject area Praxis II test. MAT candidates must also meet all graduate school admissions requirements.

## Master of Arts

2. Educational Administration and Supervision-Professional preparation in educational leadership is offered with specialization in the following areas:

- School Principalship
- Supervision of Instruction

3. Curriculum and Instruction - Professional preparation for leadership in curriculum and instruction is offered in the following specialized areas:

- Early Childhood Education
- Elementary Education
- Secondary Education
- Reading Specialist
- Special Education

4. Counseling - Professional preparation for counselors in school and post-secondary educational settings, as well as non-school agencies, is offered. Counseling programs meet all requirements for state certification.

- School Counseling
- Community Counseling


## Master of Arts in Teaching

- Elementary Education (Grades 1-5)
- Special Education (Mild/Moderate)
- Secondary Education (All secondary areas)


## Teacher Certification Program

Practitioner Teacher Programs

- Special Education (Mild/Moderate)
- Secondary Education (Mathematics and Science)

A Catholic School Principalship Development Program is also offered. This program is open only to professional educators employed by a Catholic School and nominated to the Division of Education by the Superintendent of the Archdiocese of New Orleans. Its purpose is to develop selected Catholic School teachers into effective Catholic School administrators. A certificate of achievement is issued upon successful completion of the program.

## THEOLOGY PROGRAM

## Master of Theology

This program is offered as an extension of the Institute for Black Catholic Studies (IBCS). The purpose of the IBCS is to provide a resource and research center for the study of the Black Catholic community in the United States.

## REQUIREMENTS

Applicants are admitted to the Graduate School on a full-time or part-time basis. Candidates for admission must submit a formal application to the Graduate School accompanied by an application fee; two confidential recommendations; official test results from either the Graduate Record Examination (GRE) or the Miller Analogies Test (MAT); and official transcripts from all undergraduate and, where applicable, all post-baccalaureate institutions at which courses were taken.

A degree from a regionally-accredited college or university which reflects an overall minimum undergraduate grade-point average of 2.5 is required. The minimum acceptance score from the GRE is 800 (the combined score from the verbal and quantitative sections); the minimum score required from the MAT is 30 . Test scores should not be older than five years.

All requirements for admission must be fulfilled and in the Graduate School before a decision regarding acceptance can be rendered. Applications must be made by the following dates:

- Fall semester - July 1
- Spring semester - December 1
- Summer Sessions - May 1

ALL INQUIRIES, REQUESTS FOR APPLICATION FORMS, AND COMPLETED FORMS SHOULD BE ADDRESSED TO:

THE GRADUATE SCHOOL XAVIER UNIVERSITY OF LOUISIANA<br>1 DREXEL DRIVE<br>NEW ORLEANS, LOUISIANA 70125

## FINANCIAL ARRANGEMENTS

Xavier University is a private institution and charges tuition accordingly. Inservice personnel in educational institutions receive a tuition discount that is subject to change without notice. The Graduate School does not administer any financial assistance. All inquiries about financial aid should be directed to the Office of Financial Aid.

## COURSE DESCRIPTIONS

## ACCOUNTING (ACCT)

1010-1020. Principles of Accounting I and II - Each usually offered fall and spring. Application of modern accounting principles of sole proprietorship, partnerships, and corporations. Prerequisite: Completion of all required developmental courses. Courses must be taken in sequence. (3-3)

2010-2020. Intermediate Accounting I and II - 2010 usually offered in fall; 2020 usually offered in spring. Nature and content of balance sheet accounts, principles of their determination. Interpretation of financial statements. Courses must be taken in sequence. Prerequisite: ACCT 1020. (3-3)

2030-2040. Managerial Accounting I and II - 2030 usually offered in fall; 2040 usually offered in spring. Familiarizes student with use of accounting data as a managerial decision making tool. Accounting statements and ratios pertaining to analyses of situations which students will encounter in the management of a firm. Courses must be taken in sequence. Prerequisite: ACCT 1020. (3-3)
3010. Advanced Accounting - Usually offered fall semester. Advanced phases of partnership and corporation accounting, consolidated balance sheets, profit and loss statements. Prerequisite: ACCT 2020. (3)
3030. Tax Accounting - Usually offered fall semester. Federal Income Tax provisions and procedures; problems of computing gross income, deductions, credits against net income, tax liability; preparation of tax returns; special taxes; commercial accounting practices and tax accounting provisions. Prerequisite: ACCT 1020. (3)
3040. Auditing - Usually offered spring semester. Accepted principles and practices of auditing that underlie balance sheets, detailed and continuous audits; auditor's certificate and audit reports; completion of practice and audit case. Prerequisite: ACCT 2020. (3)
3070. Elementary Cost Accounting- Usually offered fall semester. Accounting factors of manufacturing and distribution of cost, use of entries, books, records, reports in modern cost systems. Prerequisite: ACCT 2020. (3)
3080. Advanced Cost Accounting - Usually offered spring semester. Problems of cost control; estimation of cost systems; predetermined costs, flexible budgets, analysis and treatment of cost variances for managerial purposes. Prerequisite: 3070. (3)
3090. Governmental Accounting - Usually offered spring semester. Accounting principles and practices of governmental agencies and other not-for-profit organizations. Accounting for various governmental funds emphasized. Prerequisite: ACCT 2020. (3)
4000. Seminar - Usually offered spring semester. Selected topics in accounting. The use of personal computers in processing accounting data, management reports and financial decision making. Prerequisite: ACCT 3010 and senior standing. (3)
4040. Advanced Tax Accounting- Federal Income Tax provisions and procedures relative to partnerships, decedents, estates, trusts, corporations; securities; pensions, foreign income, selfemployment; estimated tax, audit; estate and gift taxes; tax research. Prerequisite: ACCT 3030. (3)

4501, 4502, 4503. Directed Readings in Accounting - Usually offered fall and spring semesters. Intensive individual readings in areas agreed upon by student, instructor, and chairperson. Prerequisite: Permission of instructor and chairperson. (1, 2, 3)

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4999.Senior Comprehensives - (0)
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## General Military Courses

1010/1010L-1020/1020L. Foundations of the United States Air Force I and II - Survey courses designed to introduce cadets to the United States Air Force and Air Force Reserve Officer Training Corps. Featured topics include: mission and organization of the Air Force, officership and professionalism, military customs and courtesies, Air Force officer opportunities, and an introduction to communication skills. Leadership Laboratory is mandatory for AFROTC cadets and complements this course by providing cadets with followership experiences. (1/0-1/0)

1210/1210L-1220/1220L. The Evolution of USAF Air and Space Power I and II -
Examines the general aspects of air and space power through a historical perspective. The course covers a time period from the first balloons and dirigibles to the $21^{\text {st }}$ century war on terrorism. Historical examples are provided to extrapolate the development of Air Force capabilities (competencies), and missions (functions) to demonstrate the evolution of air and space power. The course examines fundamentals associated with war in the third dimension: e.g., principles of war and tenets of air and space power. As a whole, this course provides cadets with a knowledge level understanding for the employment of air and space power, from a doctrinal and historical perspective. In addition, students continue discussing the importance of the Air Force Core Values, through operational examples and historical Air Force leaders, and continue to develop their communications skills. Leadership Laboratory is mandatory for AFROTC cadets and complements this course by providing cadets with followership experiences. (1/0-1/0)

## Professional Officer Courses

3010/3010L- 3020/3020L. Air Force Leadership Studies I and II- A study of leadership, management fundamentals, professional knowledge, Air Force personnel and evaluation systems, ethics, and the communication skills required of an Air Force junior officer. Case studies are used to examine Air Force leadership and management situations as a means of demonstrating and exercising practical application of the concepts being studied. A mandatory leadership laboratory complements this course by providing advanced leadership experiences in officer-type activities, giving students the opportunity to apply the leadership and management principles of this course. (3/0-3/0)

4010/4010L- 4020/4020L. National Security Affairs and Preparation for Active Duty I and II - Examines the national security process, regional studies, ethics, and Air Force doctrine. Special topics of interest focus on the military as a profession, officership, military justice, civilian control of the military, preparation for active duty, and current issues affecting military professionalism. Within this structure, continued emphasis is given to refining communication skills. A mandatory leadership laboratory complements this course by providing advanced leadership experiences, giving students the opportunity to apply the leadership and management principles of this course. (3/0-3/0)

## AFRICAN AMERICAN STUDIES (AFAM)

2000. Introduction to African American History and Culture - This course is an introductory survey of the history and culture of African Americans and a further examination of their philosophical and intellectual traditions. In the course, students are introduced to the African origins of African Americans, an interdisciplinary examination of their sociocultural development in the American context, and an investigation of their contributions to the development of United States history and culture. (3)
2001. Introduction to African American Social Sciences - This course will introduce students to a general conceptual framework for ordering the social/behavioral theories and methods that people of African descent have used to interpret and understand African American life experiences. In the course, students will be introduced to an interdisciplinary examination of areas of critical inquiry pertaining to the diversity and complexity of the African American experience as it relates to the social sciences. Particular emphasis will be placed on how variables associated with academic areas such as anthropology, communications, political economy, psychology, sociology, and popular culture interact with and impact African Americans. (3)
2002. Special Topics in African American Studies - This course is designed to more fully develop topics, genres, periods, and texts that are touched upon in the Introduction to African American History course (AFAM 2000). The course is taught from an interdisciplinary perspective that emphasizes methodologies and approaches from both the humanities and the social sciences. The course may be taken up to three times as long as the content differs in the three Topics courses selected by an individual student. (3)
2003. (SOCI 2030) Survey of Africa - Usually offered spring semester. Interdisciplinary course dealing with traditional (pre-European), colonial, and post-independence African political, social, and economic structures and institutions. Course also focuses on problems of social, political, and economic development facing contemporary African nations. (3)
2060.(SOCI 2060)Race and Ethnic Relations - Issues, problems, and research findings of race, ethnic, and minority group relations. Race differences; patterns of racial and ethnic migration; patterns of race and ethnic conflict; stages in racial and ethnic group contact; the distributive, social, psychological, and organizational dimensions of inequality; various types of resolutions to racial and ethnic group contact. Emphasis is on American black-white relations, American ethnic groups, religious conflict, and racial and ethnic group contacts in Europe, Asia, Africa, and Latin America. (3)
3025.(SOCI 3025) 20 ${ }^{\text {th }}$ Century African American Urban Life - This interdisciplinary course examines African Americans as agents in shaping the $20^{\text {th }}$ century urban experience in the United States. The central focus of the course will be the development of cultural, social, religious, economic, educational and political institutions. Examples will be drawn from among communities such as Harlem, NY, the Central Avenue district of Los Angeles, Chicago's south side, and the Auburn Avenue district of Atlanta as well as others. Prerequisite: AFAM 2000. (3)
2004. African American Inquiry- This course introduces students to ways in which scholars examine the African American experience. The theory component of the course is designed to introduce students to an interdisciplinary approach to framing inquiries about African American life, history, and sociocultural organization. The methods component of this course will examine various analytical and philosophical approaches central to study and research applicable to African American studies. Prerequisite: AFAM 2000. (3)
2005. (HIST 3050) Gandhi and King: Nonviolent Philosophy of Conflict Resolution This course examines the similarities and differences between Mahatma Gandhi and Martin Luther King, Jr. -- their leadership styles, personality traits, philosophical assumptions, the movements they led, and their tactics in particular campaigns. (3)
2006. (SOCI 3085) Sociology of the African American Experience - Through the application of sociological concepts, theory, and methods, this course will focus on the sociohistorical experience of African Americans as the social institutions in US society. Included will be a critical examination of the African Diaspora. Prerequisites: SOCI 2060 and AFAM 2000. (3)
2007. (ENGL 3290) 20th Century Survey of African American Writers - A study of major African American texts of the twentieth century, from the Harlem Renaissance to the contemporary period. (3)
2008. (HIST 3350)African American History I - Chronological and in-depth study of specific issues affecting African Americans from their West African beginnings to Civil War. Major themes to be announced each semester. (3)
2009. (HIST 3360)African American History II - Continuation of topical survey of main currents in African American life from the Civil War to the present. Major themes to be announced each semester. (3)
2010. African Americans, Africa, and Pan Africanism- This course presents an interdisciplinary examination of the concept of Pan Africanism as a multidimensional, realistic, authentic, and effective mechanism by which people of African descent in the United States have related historically and culturally to the African dimension of their identity. The course will employ methods germane to the disciplines of history, sociology, political science, and anthropology. Factual information and theoretical analyses relative to the establishment and development of a consciousness among African Americans of an African past will be presented and discussed. The course will address also the implications of African Americans identification with Africa on the process of globalization and the formation of the African Diaspora. (3)
2011. Seminar in African American Studies- Research and writing intensive seminar, exploring the critical issues and texts which define the interdisciplinary nature of African American Studies. Research is required that synthesizes knowledge gained from the concentration in African American Studies. It is recommended that students complete all core requirements in the African American Studies minor before enrolling in this course. (3)

## AMERICAN SIGN LANGUAGE (AMSL)

1010-1020. American Sign Language I and II - Introductory course designed to develop basic receptive and expressive language skills. Emphasis will be on natural language production and appropriate cultural interaction. Students will learn basic languages, structures, acquire a working vocabulary and knowledge of sentences, phrases, and appropriate non-manual behaviors. Instruction in AMSL without the use of voice. (3-3)

## ART (ART)

1010-1020. Design I a-b - Foundation course in art structure; theory and creative expression in a variety of materials and media, both two and three-dimensional. Prerequisite: ART 1010 is a prerequisite for ART 1020. (3-3)

1030-1040. Drawing I a-b - Introduction, traditional, experimental approaches; formal and expressive use of line, tone, modeling texture. Prerequisite: ART 1030 is a prerequisite for ART 1040. (3-3)
1050. Introduction to Ceramics - Form, procedures in pottery making, coil and slab building, throwing, glazing, firing. (3)
1060. Introduction to Painting - Transparent, opaque media, design and theory, application, and emphasis on color and sprays. (3)
1090. Art Appreciation - Overview of world of art; introductory course for non-majors. (3)
2011. Introduction to Black and White Photography- An introductory class to the traditional style of photography using a manual SLR camera with black and white film, process film, use chemicals, and develop prints as an art form. (3)
2020. (SMKT 2020)Introduction to Graphic and Advertising Design - Page composition, lay-out; typography; various problems involving design with letter forms. (3)

2030-2040. Drawing II a-b- Exploration of formal and expressive potentials of human figure; traditional and experimental techniques. (3-3)
2070. Introduction to Sculpture - Experience with traditional and modern sculptural materials and techniques with concentration on the human figure. (3)
2080. Introduction to Printmaking - Relief, intaglio, planographic, and stencil processes. (3)
2090. Art Essentials for Teachers - Art education for elementary education majors; theory, practice; experience with materials, techniques. (3)

2110-2120. History of Art I a-b - Survey from prehistoric times through Italian Renaissance. (3-3)

2130-2140. Contemporary Art History - Lectures, discussions on art ideas; developments since impressionism; gallery visits, reading, related activities. Prerequisite: ART 2130 is a prerequisite for ART 2140. (3-3)
2500. Developing Community Programs through the Arts - The intern seminar is intended to cultivate basic competencies in areas relevant to effective community organization and program development. Through active participation, students will become efficient resources to the Community Arts Partnership Initiative and to the community at large. Students will develop through the seminar a vocabulary for problem solving within the community context in the arts. Prerequisite: Second semester sophomore, or junior or senior status. (1)
3000. Trends in Art Education - An intensive study of the major issues in art education with an emphasis on the literature since 1950. (3)
3011. Advanced Black and White Photography - This class will build on the techniques studied in the introductory class using traditional techniques with a manual SLR camera. Prerequisite: ART 2011. (3)
3022. Digital Color Photography - This class will focus on using the computer as a tool in the creation of color prints. Students will be required to use either a film camera or a highresolution digital camera. The emphasis will be the idea of color, the usage and power in color. (3)

3030-3040. Drawing III a-b - Continuation of Drawing II. Prerequisite: ART 2040 is a prerequisite for ART 3030 and ART 3030 for ART 3040. (3-3)

3050-3060. Painting II a-b - Visual awareness in use of environment; oils, acrylics; familiarity with supports, media, brushes, etc. Prerequisite: ART 1060 is a prerequisite for ART 3050 and ART 3050 for ART 3060. (3-3)

3070-3080. Sculpture II a-b - Sculpture understanding, skills; modeling, casting, other techniques; emphasis on figure. Prerequisite: ART 2070 is a prerequisite for ART 3070 and ART 3070 for ART 3080. (3-3)

3090-3100. Printmaking II a-b - Lithography, etching other processes; personal approach within discipline imposed by media. Prerequisite: ART 2080 is a prerequisite for ART 3090 and ART 3090 for ART 4100. (3-3)

3110-3120. Ceramics II a-b - Creative exploration in pottery making; making clay bodies, glazes; wheel-throwing, varied procedures in hand building. Prerequisite: ART 1050 is a prerequisite for ART 3110 and ART 3110 for ART 3120. (3-3)
3150. Creative Crafts - Art quality including creative use of various materials such as fiber, metal, leather, wood, etc. (3)
3170. Calligraphy - Knowledge, skills in letter structure, work and word-group design, calligraphic and built-up letter forms. (3)
3200. Art Trends and Policy - This course will use lectures, discussions, visits and directed readings from texts and articles. This course is designed to bring students up to date information on current artists, theories, practices and policies. Prerequisite: ART 1090. (3)

4010-4020. Graphic and Advertising Design II a-b - From roughs to finished work for reproduction, stress on design; various techniques. Prerequisite: ART 2020 is a prerequisite for ART 4010 and ART 4010 for ART 4020. (3-3)

4030-4040. Drawing IV a-b - Advanced work from human figure; various creative approaches in many media. Prerequisite: ART 3030 is a prerequisite for ART 4030 and ART 4030 for ART 4040. (3-3)

4050-4060. Painting III a-b - Continuation of painting II. Advancement in visual consciousness, technical skills as means to significant work. Prerequisite: ART 3060 is a prerequisite for ART 4050 and ART 4050 for ART 4060. (3-3)

4070-4080. Sculpture III a-b - Continuation of ART 3070-3080. Carving, modeling, casting construction; welding, brazing soldering, etc. Prerequisite: ART 3070 is a prerequisite for ART 4070 and ART 4070 for ART 4080. (3-3)

4090-4100. Printmaking III a-b - Experimental prints, various methods/ processes; advanced lithography, etching, serigraphy, woodcut, calligraphy. Prerequisite: ART 3090 is a prerequisite for ART 4090 and ART 4090 for ART 4100. (3-3)

4110-4120. Ceramics III a-b - Continuation of ART 3110-3120; development of skills in pottery making; creative design, exploration of techniques. Prerequisite: ART 3110 is a prerequisite for ART 4110 and ART 4110 for ART 4120. (3-3)
4130. African Art - This course is a survey if the major cultures and objects as art form of Sub Saharan Africa. Traditional material and conceptual African development will be discussed through examination of art objects. (3)
4140. Art of the African Diaspora - This course is a discussion of the trends and stylistic changes in the art of African descended peoples around the world after slavery. (3)

4150-4160. Painting IV a-b - Continuation of ART 4050-4060. Prerequisite: ART 3090 is a prerequisite for ART 4090 and ART 4090 for ART 4100. (3-3)

4170-4180. Sculpture IV a-b - Continuation of ART 4070-4080. Prerequisite: ART 4080 is a prerequisite for ART 4170 and ART 4170 for ART 4180. (3-3)

4190-4200. Printmaking IV a-b - Continuation of ART 4090-4100. Prerequisite: ART 4090 is a prerequisite for ART 4190 and ART 4190 for ART 4200. (3-3)

4210-4220. Graphic and Advertising Design III a-b - Continuation of ART 4010-4020. Prerequisite: ART 4020 is a prerequisite for ART 4210 and ART 4210 for ART 4220. (3-3)

4310-4320. Ceramics IV a-b - Continuation of ART 4110-4120. Prerequisite: ART 4110 is a prerequisite for ART 4310 and ART 4310 for ART 4320. (3-3)

4410-4420. Graphics and Advertising Design IV a-b- Continuation of ART 4210-4220. Prerequisite: ART 4210 is a prerequisite for ART 4410 and ART 4410 for ART 4420. (3-3)

4501, 4502, 4503. Directed Readings in Art- Students work under the direction of faculty members to fulfill their needs and interests. $(\mathbf{1 , 2 , 3})$
4999. Senior Comprehensives - (0)

## BEHAVIORAL SCIENCE (BHSC)

2511. (PSYC 2511) Analytic Research I- Usually offered fall and spring semester. A calculational survey of introductory statistics. Examines both descriptive and inferential statistical processes. Prerequisite: PSYC 1010 and completion of all developmental mathematics requirements. (3)
3010.(PSYC 3010) Social Psychology - Usually offered fall semester. Survey of social influences on behavior. Includes affiliation and interpersonal attraction; person perception; conformity; attitude formation, assessment, and change; prejudice; aggression; social learning; and group dynamics. Prerequisites: PSYC 1010, PSYC 2020, and PSYC 2512, or permission of the instructor. (3)
2512. (PADM 3370UV) Administrative Behavior - Usually offered spring semester. Concepts of administrative behavior in public organizations, including decision-making, leadership, small group behavior, and analysis of such organizations as social systems. (3)
2513. Analytic Research II - Usually offered spring semester. Focus on use of factorial ANOVA and multiple regression as well as non-parametric and contingency-table techniques for analysis. Intermediate issues in research design are covered, with intermediate SPSS programming and beginning BMDP programming. Each student will design a significant research project. Prerequisite: BHSC 2511. (3)
2514. Analytic Research III - Usually offered fall semester. Intended for students specializing in research or aspiring to graduate studies. Advanced statistical techniques as well as advanced issues in research applications and statistical programming. Students will complete a significant research project. (3)
2515. (PSCI 4800) Advanced Research in the Behavioral Sciences - Intended for students preparing for a research-oriented career or planning on pursuing graduate study in their discipline. Focus on quantitative analysis of data using mainframe computers and SPSS and the presentation of reports and hypothesis testing. Students will complete a significant research project within a general topic area and using a large data set selected by the instructor. Prerequisites: BHSC 2511 (PSYC 2511) and either PSYC 2512 or PSCI 2010, or consent of instructor. (3)
2516. (PCLN 4830, PHAD 4830) Drug and Substance Abuse Education - Usually offered spring semester. The terminology of drug use and abuse; the physiological, psychological, sociological, and legal implications of drug abuse; techniques of providing innovative education in drug and substance abuse. Student participation and group interaction. (3)

## BIOLOGY (BIOL)

1030/1030L-1040/1040L.General Biology- Modern concepts in biology for the nonscience major. Lecture and laboratory should be taken concurrently. NOT APPLICABLE TO MAJOR OR MINOR IN BIOLOGY. (2/1-2/1)
1050.Environmental Biology - The biological and social implications of the relationship between the environment and human society. NOT APPLICABLE AS A BIOLOGY ELECTIVE FOR STUDENTS MAJORING OR MINORING IN BIOLOGY. (3)

1230/1230L - 1240/1240L.General Biology- Science Majors. Basic biological principles and concepts as they apply to all levels of organization. BIOL 1230 is a prerequisite for 1240 . (3/1-3/1)

> BIOL 1240 IS A PREREQUISITE FOR ALL HIGHER-NUMBERED COURSES IN BIOLOGY.

2000/2000L. Biodiversity - Survey of biological diversity, basic principles and concepts of biological systematics, taxonomy, evolutionary theory, and ecology. (3/1)

2010/2010L. General Microbiology- Study of microorganisms. Laboratory emphasizes principles of bacteriological technique, microscopic study, and environmental influences affecting microorganisms. (3/1)
2340. (SPTH 2340) Anatomy and Physiology of Speech and Hearing Mechanism -

Identification and function of structures pertinent to the processes of speech and hearing. FOR SPEECH PATHOLOGY MAJORS AND MINORS ONLY. (3)
2400. (EDEL 2400) Nutrition - Basic concepts of human nutrition, including importance of food to the body; the nature and composition of foods; release and utilization of nutrients; planning the daily diet and the process of digestion and absorption. FOR EDUCATION MAJORS ONLY. (3)

3070/3070L. Immunology - Basic concepts of immunology and immunological disorders. Laboratory includes discussions and application of the basic principles of serology. Prerequisite: BIOL 2010 or permission of instructor. (3/1)

3081/3081L. Medical Microbiology - Study of various human pathogens, with emphasis on basic biology and the host-pathogen interaction. Laboratory consists of selected exercises relevant to the culture and manipulation of bacterial pathogens and other microorganisms. Prerequisite: BIOL 2010/2010L and CHEM 2210 or permission of instructor. (3/1)

3091/3091L. Cell Biology - Molecular basis of eucaryotic cell structure and function. Laboratory introduces techniques used in the study of cells. Prerequisite: CHEM 1020/1020L. (3/1)

3110/3110L. Genetics - Fundamental principles of classical and molecular genetics. Prerequisite: CHEM 1020/1020L. (3/1)

3141/3141L. General Zoology - Structure and function of vertebrate and invertebrate animals in an evolutionary context. (3/1)

3151/3151L. General Botany - Basic principles of the biology of plants. (3/1)
3150. Virology- General properties of viruses, their isolation and chemical composition. Special emphasis placed on molecular biology of bacterial and animal viruses. Prerequisite: BIOL 2010 or permission of instructor. (3)

3162/3162L. Introduction to Embryology - Analytical approach to major aspects of development. Laboratory stresses morphological development of selected vertebrates. Prerequisite: CHEM 1020/1021L. LECTURE AND LABORATORY MUST BE TAKEN CONCURRENTLY. (4/0)

3210/3210L. Ecology - The relationship between organisms and their environment. (3/1)
3350/3350L. Anatomy and Physiology- Basic structural and functional aspects of the human body. Laboratory includes histological and macroscopic anatomy together with exercises emphasizing the functional aspects of the systems. NOT OPEN TO PHARMACY STUDENTS. (3/1)

3360/3360L. Parasitology- Key aspects of the biology of parasitic animals. Special emphasis placed on those parasites of medical importance. Laboratory stresses microscopic study of parasites. (3/1)

3450/3450L-3460. (PHCL 3450/3450L-3460) Human Physiology and Anatomy -
Comprehensive view of the human body emphasizing individual systems and their interactions with each other and exogenous materials. LIMITED TO PHARMACY STUDENTS. (3/1-3)

4011S-4020S. Honors Seminar - Presentation and discussion of current biological problems and research interests as presented by faculty, students, and guest speakers. Takes the place of the BIOL 4210 requirement for seniors in the honors program. Prerequisite: 20 hours in biology and ADMISSION TO THE "HONORS IN BIOLOGY" PROGRAM. Prerequisite: Completion of BIOL 4011S. (0/1)

4050/4050L. Animal Physiology- Coordinated functional relationships of different taxa of animals with respect to adaptation to varied habitats and changing environment. (3/1)

4091/4091L. Comparative Vertebrate Anatomy - Evolutionary approach to the study of structural and functional relationships between several vertebrate taxa. Laboratory work requires extensive dissection. LECTURE AND LABORATORY MUST BE TAKEN CONCURRENTLY. (4/0)

4111/4111L. Histology - Structure and function of cells, tissues, and organ systems. Laboratory stresses microscopic study of cells and tissues. LECTURE AND LABORATORY MUST BE TAKEN CONCURRENTLY. Prerequisite: CHEM 1020/1020L. (4/0)
4210. Introduction to Scientific Literature - Types of biological articles are discussed and reviewed. Students will give both oral and written critiques and summaries of assigned articles. Required of and limited to biology seniors. Pre-requisite: Completion of all required biology courses. (1)
4220. Applied and Environmental Microbiology- Study of microorganisms as related to food, water, agricultural, and industrial processes. Prerequisites: BIOL 2010/2010L. (3)
4240. Microbial Physiology- Structure-function relationships in the microbial world, with emphasis on the biochemistry and metabolism of bacteria and selected other forms. Prerequisites: BIOL 2010, CHEM 2210 or permission of instructor (3)

4250/4250L. Molecular Genetics - Molecular biology of the gene. Special emphasis placed on comparison of gene expression in procaryotes and eucaryotes. Prerequisites: BIOL 2010/2010L and CHEM 2210/2230L. (3/1)

4300, 4301, 4302, 4303. Advanced Topics in Biology - Designed to permit a student to pursue an in-depth treatment of a topic. Students work independently under the direction of the instructor. Specific topics are announced when the course is offered. Prerequisites: 16 hours of biology AND permission of instructor. ( $\mathbf{1 , 2 ,}$, or $\mathbf{3}$ )
4320. Organic Evolution - Modern synthetic theory of evolution with emphasis on the mechanisms involved in this process. Strongly recommended: BIOL 3110/3110L
4350. Epidemiology- Study of the distribution and determinants of diseases and injuries in human populations. Prerequisite: Completion of all required Biology courses in the major or permission of the instructor. The course includes lectures, class discussion, independent module work, and assigned readings and projects. (3)

4402L.Techniques of Research in Biology - Theory and practice of various modern biological research techniques. Modular, team taught. Prerequisite: Junior standing in biology. May be repeated once for credit. (2)
4450. Introduction to Mammalian Tissue Culture - Theory and techniques of mammalian tissue culture with an emphasis on application in basic and clinical research. Prerequisite: BIOL 2010 and 2010L and junior or senior standing. In addition, instructor's approval is needed since enrollment is restricted. (3)
4520. Undergraduate Research- Research participation for biology majors. May be repeated once for credit. Prerequisites: Sophomore standing in Biology and permission of the instructor. (2)
4550. Advanced Readings in Biology - This course is designed to provide students with an introduction to the literature of the biological sciences at an advanced level. Specific topics and reading selections will vary from year to year. Primarily intended for biology education majors. Offered as needed, as a Directed Readings course. Prerequisites: Senior standing in Biology and 24 semester hours of biology. (3)

## 4999. Senior Comprehensives - (0)

Courses offered through the Gulf Coast Research Laboratory
Not all courses listed are offered each year. Interested students should consult the GCRL Summer Announcement for courses offered each summer.

| MAR | -300 | Marine Science I: Oceanography |
| :--- | :--- | :--- |
| MAR | -300 L | Marine Science I: Oceanography Lab |
| MAR | $-\mathbf{3 0 1}$ | Marine Science II: Marine Biology |
| MAR | -301 L | Marine Science II: Marine Biology Lab |
| MAR | -403 | Marine Invertebrate Zoology |
| MAR | -403 L | Marine Invertebrate Zoology Lab |
| MAR | -404 | Parasites of Marine Animals |
| MAR | -404 L | Parasites of Marine Animals Lab |
| MAR | -405 | Marine Ecology |
| MAR | -405 | Marine Ecology Lab |
| MAR | -406 | Fauna/Faunistic Ecology Tidal Marshes |
| MAR | -406 L | Fauna/Faunistic Ecology Tidal Marshes Lab |
| MAR | -407 | Marine Aquaculture |
| MAR | -407 L | Marine Aquaculture Lab |
| MAR | -408 | Marine Ichthyology |
| MAR | -408 L | Marine Ichthyology Lab |
| MAR | -409 | Marine Microbiology |
| MAR | -409 L | Marine Microbiology Lab |
| MAR | -410 | Marine Fisheries Management |
| MAR | -410 L | Marine Fisheries Management Lab |
| MAR | -420 | Marine Phycology |
| MAR | -420 L | Marine Phycology Lab |
| MAR | -421 | Coastal Vegetation |
| MAR | -421 L | Coastal Vegetation Lab |
| MAR | -422 | Salt Marsh Plant Ecology |
| MAR | -422 L | Salt Marsh Plant Ecology Lab |
| MAR | -430 | Compar. Histology of Marine Organisms |
| MAR | -430 L | Compar. Histology of Marine OOrganisms Lab |
| MAR | -456 | Marine Science for Teachers I |
| MAR | -456 L | Marine Science for Teachers I Lab |
| MAR | -457 | Marine Science for Teachers II |
| MAR | -457 L | Marine Science for Teachers II Lab |
| MAR | -458 | Marine Science for Elementary Teachers |
| MAR | -458 L | Marine Science for Elementary Teachers Lab |
| MAR | -482 | Coastal Marine Geology |
| MAR | -482 L | Coastal Marine Geology Lab |
| MAR | -490 | Special Problems in Marine Science |
| MAR | -491 | Special Topics in Marine Science |

Courses offered through the Louisiana Universities Marine Consortium (LUMCON), Cocodrie, Louisiana
Not all courses listed are offered each year. Interested students should consult the Consortium's Summer Announcement, available through the faculty liaison, for further information.

Introduction to Marine Science<br>Introduction to Marine Zoology<br>Topics in Marine Science<br>Special Problems in Marine Science<br>Coastal Marine Geology<br>Marine Ecology<br>Marine Invertebrate Zoology<br>Marine Science for Teachers<br>Marine Vertebrate Zoology

## BUSINESS ADMINISTRATION (BSAD)

1005. (CPSC 1005) Introduction to PC's and Software Applications - Usually offered fall and spring semesters. Basic hardware/software terminology. Hands-on instruction on business application software covering database management systems, spreadsheets and word processing using contemporary office software such as Microsoft Office. (3)
1010.* Introduction to Business - Usually offered fall semester. Fundamentals of Business Administration; underlying principles of management, and structures and functions of its various departments. (3)

[^21]2020. Introduction to Entrepreneurship- Usually offered in the spring semester. A contemporary view of the world of entrepreneurship that explores the creativity of individuals and the concept of innovation as they relate to the emerging trends that emanate from the Internet and e-commerce. A major portion of the course is focused on the development of a comprehensive business plan. Prerequisite: ENGL 1020. (3)
2021. Venture Economic and Financial Analysis - This course will provide training in the methods used to assess and evaluate the business merit of business projects and ventures. Students will learn how to identify potential business opportunities, develop estimates of the resources needed to pursue business opportunities, make projections of potential business revenue, expenses, capital investments, earnings and shareholder returns. This course will be based on academic research and basic principles of economics and finance including market analysis, project evaluation, risk assessment and present value calculations. (3)
2060. Principles of Management- Usually offered fall and spring semesters. An integrated overview of the fundamentals of managerial decision making with a focus on developing the skills necessary to identify problems that confront managers who then must apply the necessary tools (both analytical and intuitive) to foment solutions that coalesce with the firm's goals and objectives. Topics include the importance of teamwork, motivation, leadership, and ethics. Prerequisite: ENGL 1020. (3)

2060TV. Principles of Management- Usually offered fall and spring semesters. A survey of management theory, including such topics as motivation, teamwork, leadership, decision making, and ethics. Prerequisite: ENGL 1020. (3)
2200. Introduction to International Business - Usually offered fall semester. Addresses the major activities involved in international business. Emphasis is placed upon marketing, finance, economics, management, accounting, taxation, culture, and politics as they apply to international business. Prerequisites: BSAD 1010, SMKT 2050, BSAD 2060 or permission of chairperson or advisor. (3)
3011. Organizational Communications- Usually offered fall semester. Concepts and applications of communication in business settings. Reading, writing, speaking, listening, and use of technology. Team decision-making, ethics, critical thinking, cross-cultural issues. Prerequisites: ENGL 1020, and completion of sophomore comprehensive exams (All sophomore competency exams must be passed and student must be prepared to show evidence). (3)
3030.** Business Law - Usually offered spring semester. Commercial law as it affects accountancy - CPA law. (3)
**Open to accounting majors only.
3035. (BSAD 3035TV)Legal Aspects of Business - Usually offered fall semester. A study of the basic legal concepts and procedures as well as basic principles pertaining to fundamental business transactions. (3)
3055. Quantitative Analysis - Usually offered fall and spring semesters. An introduction to the concepts of various quantitative methods such as Decision Analysis, Forecasting, Linear Programming, Inventory Management, and Project Scheduling and their role in the decisionmaking process. Prerequisite: ECON 2070. (3)
3115. International Management - Usually offered spring semester. A view of the environments where international business occurs and the factors that dictate global management decision making. Methodologies towards coordinating production centers in international markets, dealing with trade channels and barriers aboard, and implementing trade guidelines created through international organizations are studied. Prerequisites: BSAD 2060, SMKT 2050. and ECON 2020. (3)
3120. Human Resource Management - Usually offered fall semester. Analyzes the "people" problems of management, job analysis, planning, recruiting, selection, training and development, performance evaluation, wage and salary administration, incentive systems, benefit programs. Prerequisite: BSAD 2060. (3)
3140. Organizational Behavior - Usually offered fall semester. An experiential approach to learning individual and group behaviors within organizational contexts. Includes both traditional and cutting-edge approaches to behavior in post-modern organizations. Prerequisite: BSAD 2060. (3)
3150. Organization Theory- Usually offered spring semester. Focus on macro aspects of organizations. Includes both traditional focus on historical patterns of organizational design and forward-looking approaches. Prerequisite: BSAD 2060. (3)
3190. Operations Management - Usually offered fall semester. A study of the problems encountered in operations and production with emphasis on product decisions, process planning, network planning, plant location, facilities acquisition and layout. Prerequisite: BSAD 2060 and BSAD 3055. (3)
3195. Computer-Based Information Systems - Usually offered spring semester. Provides students with an understanding of applications of the computer to the support of managerial decision-making processes. Topics include basic business information concepts, the organization of information systems, recently developed computer-supported managerial techniques and problems accompanying advances in computer technology. Prerequisites: BSAD 1005; BSAD 2060. (3)
3780. Organization and Operation of a Small Business - Usually offered fall semester. An examination of methods that investigate the complexity of management practices in general entrepreneurship with a perspective that can explore the marketplace for successful venture opportunities. Strong emphasis is given to learning the skill factors related to planning, marketing, managing, and financing small business ventures. Prerequisites: BSAD 2020 or BSAD 2060, and SMKT 2050. (3)

3900-3905. Business Administration Summer Internship - Usually offered summer semester. Ten to twelve weeks of work experience in business, industry, or government related to the student's academic program. Completion of two internship reports. Graded on Pass/Fail basis. Prerequisites: business department major, completion of 62 degree credit hours and 2.0 or above grade point average, or permission of department chairman. $(\mathbf{3 , 3})$
4000. Business Policy - Usually offered spring semester. The capstone course that integrates the material learned in the foundation courses of finance, accounting, marketing and management into paradigms for strategic decision makers in domestic and foreign business entities. In addition, innovative strategic tools in contemporary business will be applied to case studies and a comprehensive term project. Senior standing or a written waiver from the department chair is mandatory for this course. Prerequisites: BSAD 2060, SMKT 2050 and FINC 3050. (3)

4501, 4502, 4503. Directed Readings in Business Administration - Usually offered fall and spring semesters. Intensive individual readings in areas agreed upon by student, instructor, and chairperson. Prerequisite: Permission of instructor and chairperson. (1, 2, 3)
4999. Senior Comprehensives - (0)

## CHEMISTRY (CHEM)

1010/1010D.-1020/1020D. General Chemistry I-II - Atomic structure, bonding, chemical stoichiometry and calculations, states of matter, thermochemistry, kinetics, electrochemistry, and equilibrium. 1010 and 1020 have three lectures per week. 1010D and 1020D are drill sessions meeting once per week. Prerequisites: Completion of all developmental Mathematics requirements. CHEM 1010/1010D are prerequisites for CHEM 1020/1020D. Corequisites: CHEM 1010 and 1010D; CHEM 1020 and 1020D. (3/0-3/0)

1011L.General Chemistry I Laboratory - Students are introduced to explorations of chemical and/or physical systems by discovering concepts rather than verifying them. Students who complete this course will be able to identify pertinent variables, recognize qualitative trends in data, determine quantitative relationships and test the validity of conclusions on a particular chemical or physical system. 1011L is a one session per week 3-hour laboratory. Corequisites: CHEM 1010/1010D. (1)

1021L.General Chemistry II Laboratory - Students are introduced to a series of experiments in which schemes for separation and identification of mixtures of inorganic cations are utilized. Students will also conduct experiments introducing them to a variety of techniques in acid-base titrations, electrochemistry, and kinetic studies. Students who complete this course will be familiar with the techniques and principles of qualitative inorganic analysis. In addition, students will develop basic laboratory skills necessary for upper-level courses and for research. 1021L is a one session per week 3-hour laboratory. Prerequisites: CHEM 1010/1010D/1011L. Corequisites: CHEM 1020/1020D. (1)
1500. Survey of Environmental Chemistry- This course is a survey of the nature, reactions and transport of chemicals present in the environment. Basic chemical principles and laboratory skills will be introduced as students study: Energy and Resources in the Environment, Toxic Substances, Energy Production, Water Quality, Atmospheric Chemistry, Soil Chemistry, Restoration and Waste Management. Recommended for non-science majors. Prerequisites: None. (3)

2210/2210D-2220/2220D. Organic Chemistry I-II - Introduction to the structural theories, physical and chemical behavior, synthesis, reaction mechanisms, and identification of compounds composed primarily of carbon and hydrogen. Students who complete the course will become familiar with the large body of information required before the chemistry of living systems (biochemistry and molecular biology) can be studied. The critical thinking skills needed to apply this information to a wide variety of problems, both professional and societal, are strongly developed. 2210D and 2220D are drill sessions meeting once per week. Prerequisites: CHEM $1020 / 1020 \mathrm{D} / 1021 \mathrm{~L}$ are prerequisite to $2210 / 2210 \mathrm{D}$; 2210/2210D are prerequisite to $2220 / 2220 \mathrm{D}$. (3/0-3/0)

2230L - 2240L. Organic Chemistry Laboratory I-II - Students are introduced to microscale and macroscale organic laboratory techniques, selected instrumental analysis, and chemical safety. Students learn to critically assess their data and observations, and to prepare organized, scientific reports from their findings. In the second semester, these techniques are applied to experiments which correlate with material presented in the lecture. Students get handson experience with organic reactions, syntheses, instrumental analyses, and interpretations as well as presentation of results. Prerequisites: CHEM 1011L for 2230L; CHEM 2230L for 2240L. Corequisites: CHEM 2210/2210D for 2230L; CHEM 2220/2020D for 2040L. (1-1)
3010. Physical Chemistry for the Life Sciences- Principles of physical chemistry as applied to biological and biomedical systems. Students who complete this course will gain an understanding of the physical properties of solids, liquids, and gases, the laws of thermodynamics, the properties of solutions, principles of chemical equilibria and chemical kinetics, quantum mechanical treatment of atoms and molecules, and the theory and applications of spectroscopy. The course will develop the critical thinking and computational skills of the students. Prerequisites: CHEM 3210/3210L, MATH 1070, and PHYS 2020/2020L. (3)
3030. Physical Chemistry I - A survey of the principles of physical chemistry including thermodynamics, phase equilibria, chemical equilibria, electrochemistry, and kinetics. Students who complete this course will gain an in-depth understanding of the principles governing the interaction of matter and energy, and will develop their critical thinking and computational skills. Prerequisites: CHEM 3210/3210L, MATH 2070, and PHYS 2020/2020L. (3)

3030L.Physical Chemistry Laboratory I - A selection of experiments featuring the applications of the principles of physical chemistry. Experiments include the use of physical chemistry techniques to examine the properties of solids, liquids, and gases, reaction kinetics, and systems at equilibrium. The course requires extensive computational and writing skills. One three-hour laboratory per week. Prerequisites: CHEM 3210/3210L. Corequisites: CHEM 3010 or 3030. (1)
3040. Physical Chemistry II - Advanced topics in atomic and molecular quantum theory, atomic and molecular structure, spectroscopy, and photochemistry. Students who complete this course will gain an understanding of the properties of atoms and molecules, and the principles of the different types of spectroscopy. Prerequisites: CHEM 3210/3210L, MATH 2070, and PHYS 2020/2020L. (3)

3040L.Physical Chemistry Laboratory II - A selection of experiments featuring the applications of the principles of physical chemistry. Experiments include the use of physical chemistry techniques to examine the properties of solids, liquids, and gases, and various spectroscopic techniques to characterize substances. The course requires extensive computational and writing skills. One three-hour laboratory per week. Prerequisite: CHEM 3210/3210L and CHEM 3010 or 3030 . (1)

3210/3210L. Quantitative Analysis - Theory and techniques of chemical analysis including evaluation of data, gravimetric, volumetric, potentiometric, and spectrophotometric methods. 3210 L is a one session four-hour laboratory which must be taken along with 3210. Prerequisites: CHEM 1020/1020D/1021L.(3/1)

3220L.Molecular Structure and Organic Synthesis Laboratory - Students perform multistep synthesis and identify unknown and synthesized compounds. A variety of chemical and spectroscopic characterization methods are used. This course seeks to bridge the gap between the elementary organic lab and the advanced organic research lab. It allows students to develop critical reasoning skills, computational skills and oral and written presentation skills necessary for a professional career in science. Prerequisites: CHEM 2220/2220D/2240L. (2)
3450. Toxicology - A study of the fundamental principles of toxicology with emphasis on the chemical reactions and mechanisms involved. Topics include entry and fate of toxicants in the body, metabolism, toxic effects, and quantitation. A student completing this course will have a better understanding of the adverse effects of chemicals and other agents to human beings. Prerequisites: CHEM 2220/2220D, BIOL 1240. (3)
4010. Advanced Inorganic Chemistry 1 - A study of the theories and principles of bonding and structure as well as the descriptive chemistry and applications of the elements and their simple compounds. A student completing this course will be familiar with the information needed to connect the fundamental theories of inorganic chemistry with the new technological applications of inorganic compounds. Prerequisite: CHEM 3030 or CHEM 3010. (3)
4011. Advanced Inorganic Chemistry 2 - A study of the theories and principles of coordination chemistry, solution chemistry, and applications of organometallic and bioinorganic compounds. A student completing this course will be familiar with the information needed to relate coordination compounds and their reactions to the expanding applied fields of organometallics, catalysis and bioinorganic chemistry. Corequisite: CHEM 4010. (3)
4073. Chemistry Literature Research- Students participate in an independent literature research project under the close supervision of a faculty advisor. This entails familiarization with relevant chemical literature, literature search, preparation of an abstract and a written report, and presentation of a departmental seminar. Students who complete this course learn to search and critically review the literature, evaluate their findings, prepare a formal and detailed research report, and present a seminar for constructive review by their peers and the faculty. Prerequisites: CHEM 2220/2220D/2240L. (3)
4080. Introduction to Research- Students are paired with research mentors who prepare them for research through a literature search and studies as well as research training. Students are also required to attend seminars offered at the scheduled class period weekly. These seminars will include lectures on such topics as chemical safety and research ethics. Students are required to present a literature seminar or a research prospectus during the semester. Prerequisites: CHEM $2220 / 2220 \mathrm{D} / 2240 \mathrm{~L}$.
4083. Undergraduate Research- Students participate in an independent and original laboratory research project under the close supervision of a faculty advisor. This entails familiarization with relevant chemical literature, laboratory work, preparation of an abstract and written report, and presentation of a departmental seminar. Students who complete this course learn to search and critically review the literature, develop specialized laboratory skills, evaluate their data, prepare a formal and detailed research report, and present a seminar for constructive review by their peers and the faculty. Students desiring credit for research performed off campus must obtain approval of their project from the course coordinator, register for this course, and present the required written and oral reports and a letter of evaluation from the off-campus supervisor of the research. Prerequisites: CHEM 4080 or permission of the course coordinator. (3)
4093. Undergraduate Environmental Research - Students participate in an independent and original research project in the area of environmental chemistry, under the close supervision of a faculty advisor. This entails familiarization with relevant chemical literature, laboratory and/or field work, preparation of an abstract and a written report, and presentation of a departmental seminar. Student who complete the course learn to search and critically review the literature, develop specialized laboratory skills, evaluate their data, prepare a formal and detailed written research report, and present a seminar for constructive review by their peers and the faculty. Students desiring credit for environmental research performed off campus must obtain approval of their project from the course coordinator, register for the course, and present the required written and oral reports and a letter of evaluation from the off-campus supervisor of the research. Prerequisites: CHEM 4080. (3)
4120. (PHSC 4120) Pharmaceutical Biochemistry - Students will be introduces to the structure and function of biomolecules, including their metabolism, synthesis, and degradation. They will learn major biochemical pathways and biochemical energetics. Students who complete the course will be aware of the significance of biochemistry relative to specific clinical problems. They will be cognizant of diseases derived from aberrant biochemical processes and of biochemical solutions based upon an understanding of molecular cellular processes. Prerequisites: CHEM 2220 or equivalent. Limited to Pharmacy students. (3)
4130. (PHSC 4130) Introduction to Biochemistry - The student's understanding of cellular structure and composition on the molecular level will be developed through a study of the physical and chemical properties of the biomolecules of cells. Prerequisites: CHEM $2220 / 2220 \mathrm{D} / 2240 \mathrm{~L}$. (3)

4130L.Introduction to Biochemistry Laboratory- A selection of experiments covering the isolation of biochemical substances and the study of their properties. This course will enable the student to readily perform isolations of a number of types of biochemical substances, and to determine their properties and concentrations while gaining some skills in the use of common laboratory techniques and instruments. Prerequisites: CHEM 2220/2220D/2240L. (1)
4140. Metabolism - A study of biochemical energetics and the many biochemical pathways of carbohydrate, lipid, protein, and nucleic acid metabolism. The student will gain insight into the metabolism of biochemical substances on the molecular level, and insight into the universal and integrated nature of metabolism. Prerequisite: CHEM 4130. (3)

4150/4150L. Genomics and Proteomics - This course is designed to introduce students to the laboratory and computational methodologies used in analyzing DNA and proteins. It will employ molecular biology, chemistry, and bioinformatic techniques developed during the largescale genome sequencing of multiple species including homo sapiens. A student completing this course will have better insight into the theoretical and practical aspects of understanding structure and function of DNA and proteins. CHEM 4150 and 4150 L must be taken concurrently. Prerequisites: CHEM 4130/4130L and CHEM 3010 (or 3030). (2/1)

4151, 4152, 4153. Special Topics - Detailed discussion of one or more topics in chemistry. $(1,2,3)$

4160/4160L. Enzymology- A study of enzymes covering topics ranging from their isolation and purification from living organisms to their function and uses. The course will focus on complex kinetic studies and a study of the mechanism of action of complex enzymes. CHEM 4160 and 4160L must be taken concurrently. Prerequisites: CHEM 4130/4130L and CHEM 3010 (or 3030). (2/1)
4210. Advanced Organic Chemistry - The aim of this course is to solidify the student's understanding of certain basic concepts covered in CHEM 2210-2220. Structures of organic compounds, reaction mechanisms, and stereochemistry of organic reactions are emphasized. The student will gain a deeper understanding of these topics and insight into the experimental foundation of abstract concepts. Prerequisites: CHEM 2220 and CHEM 3010 (or 3030) or permission of instructor. (3)
4230. Principles of Polymer Chemistry- Topics include polymer solutions, molecular weight measurement, analysis and testing, mechanical properties, polymer structure and physical properties, polymerization methods, and polymer processing. Prerequisites: CHEM $2220 / 2220 \mathrm{D} / 2240 \mathrm{~L}$ and CHEM 3010 (or 3030). (3)

4240/4240L. Instrumental Methods of Chemical Analysis - An introduction to the theories, operations, and applications of spectroscopic, electrochemical, and chromatographic instrumentation in chemical analysis. Students will acquire hands-on experience in the operation and use of several instruments commonly employed in chemical analysis. Students who successfully complete this course will have developed the critical thinking and laboratory skills necessary to apply various instrumentation to the solution of problems in chemical analysis. Laboratory meets in one four-hour session. CHEM 4240 and 4240L must be taken concurrently. Prerequisites: CHEM 3210/3210L. (3/1)

4310L.Advanced Synthesis Laboratory - Students will synthesize a wide range of compounds, including an inorganic polymer, organic compounds with medicinal applications, bioinorganic compounds, main group and transition-metal organometallics, and coordination compounds. Students who successfully complete this course will develop the skills for the synthesis of organic and inorganic compounds using modern techniques. Prerequisites: CHEM 3210/3210L. (2)
4999. Senior Comprehensives - (0)

## COMPUTER ENGINEERING (CPEN)

## STUDENTS MUST EARN A GRADE OF "C" OR ABOVE TO SATISFY THE PREREQUISITES IDENTIFIED IN THE FOLLOWING COMPUTER ENGINEERING COURSES.

1000. Introduction to Computer Engineering- Introduction to the principles and practices of engineering, engineers and engineering activities in a technological society. Measurement, analysis and presentation of engineering data. Demonstrations and laboratory exercises. Prerequisites: Completion of all developmental mathematics courses. (1)

2110/2110L. (CPSC 2110/2110L)Logic Design - Usually offered fall and spring semesters. Students are introduced to the fundamental operations and components of computers. Topics include: number systems, Boolean algebra and logic gates, simplification of Boolean functions, adders, multipliers, decoders and encoders, PLAs, multiplexers, latches, flip-flops, state diagrams and equations, sequential circuit design, basic computer operation cycle, operand addressing, instruction set design, RISC vs. CISC, and an introduction to HDL and a simple ALU. Prerequisite: CPSC 1710/1710D. Corequisite: CPEN 2110L. (3)
2210. (ENGR 2120/PHYS 3120 Network Analysis) Circuits I - Introduction to linear, timeinvariant, and lumped circuits with dependent and independent sources. Application of Kirchoff's Laws and other methods of analysis to DC circuits. Use of complex algebra; impedance; admittance; steady state AC circuit analysis; transient analysis of RL, RC and RLC circuits. Use of software to aid in circuit analysis and simulation. Prerequisites: MATH 2030 and 2070. Co-requisite: MATH 2530. (3)
2220. Circuits II - AC steady state analysis of RLC circuits and frequency response; transient analysis of RLC circuits. Study of complex power and application of Laplace transform methods. Study of transfer functions; low pass, high pass, and bandpass filters; Fourier Analysis and Fourier Transform analysis. Use of software to aid in circuit analysis and simulation. Design assignments will be required. Prerequisites: CPEN 2210 and MATH 2530. (3)

2220L.Circuits Lab - Introduction to electrical measurements using instruments. Analysis of circuits using protoboard design and software analysis. Co-requisite: CPEN 2210. (1)

3101, 3102, 3103, 3104. Special Topics in Computer Engineering - Selected topics in computer engineering, offered as required. Prerequisites depend on the topic. (1, 2, 3, 4)

3110, 3111, 3112, 3113. Independent Study in Computer Engineering- Individual in an approved area of computer engineering. Guidance by one or more members of faculty. Prerequisite: Permission of the chairperson. Credit determined by faculty member and chairperson. (0, 1, 2, 3)
3060. (CPSC 3060) Design and Analysis of Algorithms - Usually offered fall semester. Design and analysis of computer algorithms in terms of space and time complexity, analysis of several advanced search, sort, tree, and graph algorithms; discussion of algorithmic strategies such as divide-and-conquer, greedy, backtracking, and branch-and-bound; introduction to NP-hard and NP-complete problems. Prerequisites: CPSC 2730 and MATH 2550. (3)
3130.(CPSC 3130) Computer Architecture- Usually offered spring semester. This course introduces students to: computer organization, processors, memories, peripherals, study of recent advances in computer architecture, parallelism, hardware, software, and multilevel machines. Prerequisites: CPSC 2120 and 2730. (3)
3140. (CPSC 3140) Operating Systems - Usually offered fall semester. This course introduces students to the design and implementation of operating systems. Topics include: an overview of the components of an operating system, mutual exclusion and synchronization, implementation of processes, scheduling algorithms, memory management, and file systems. Prerequisites: CPSC 2120 and 2730. (3)
3150. Embedded Systems - A survey of topics relevant to micro-computers, including their architecture, assembly language programming, software development, interrupt systems, and semiconductor technologies. Prerequisites: CPEN 2210 and CPSC 2120. (3)
3210. Electronics- Introduction to the physical characteristics of electronic devices such as diodes and transistors. Development of circuit models of these devices. Design and analysis of circuits using these devices. Prerequisite: CPEN 2210. (3)

3210L.Electronics Lab - Design and analysis of electronic circuits using devices such as diodes, transistors, capacitors, resistors, and inductors. Prerequisite or Corequisite: CPEN 3210. (1)
3220. Digital Electronics - Design of digital gates and larger devices such as latches, flip-flops, memory, and adders using transistors. Design of larger subsystems of the computer using building blocks. Prerequisite: CPEN 3210. (3)
3310. Signals and Systems - Study of continuous and discrete signals and systems. Convolution of systems, impulse response, and system classification. Analysis using differential equations, Fourier methods, Z-transforms, and Laplace methods. Prerequisites: CPEN 2210, STAT 3051, and MATH 2530. (3)
4110. Hardware Systems Implementation - Electronic circuit design hierarchy and the role of methodology. Application specific integrated circuits. Hardware description languages. Behaviorial and structural circuit modeling. Design algorithms and design tools. Design projects. Prerequisites: CPEN 2110 and 3130. (3)
4320. Digital Signal Processing - Concepts of digital signal processing. Use of Fourier series, Z-transforms, and Fourier Transform. Digital filter, signal convolutions and correlations. Prerequisite: CPEN 3310. (3)
4200. Design Project - A design course where students apply their accumulated knowledge in designing and implementing a major project. Prerequisites: All 3000-level required CPEN courses.
4330. Controls- Analysis and design of feedback control systems using transfer functions. Prerequisites: CPEN 2220 and CPEN 3310. (3)
4410. Digital Communications - This course will cover fundamentals of digital communications and networking. The students will study sampling and quantization, coding, modulation, signal detection, and signal performance in the presence of noise. The data networking topics will include multiple access and reliable packet transmission. The concepts taught in class will be discussed in the context of wireless communication systems, which include the cellular networks and wireless local area networks. Prerequisites: CPEN 2110, 2220, 3310, and MATH 3051. (3)
4420. Digital Image Processing - This course provides an introduction to the basic concepts and techniques of digital image processing. Topics covered include characterization and representation of images, image enhancement, image restoration, image analysis, image coding, and image reconstruction. Prerequisites: CPEN 2110, 2220, 3310, 4320, and MATH 3051. (3)
4430. Digital Speech Processing - Fundamentals of speech processing, including speech production models, frequency-domain analysis methods, and applications to speech coding, recognition, and synthesis. Prerequisites: CPEN 4320. (3)

4800-4805. Capstone Project - A design course where students apply their accumulated knowledge in designing and implementing a major project. Prerequisites: All 3000-level required CPEN courses. (1-2)

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4999.Senior Comprehensives- (0)
4999P.Senior Comprehensives - Programming - (0)
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## COMPUTER INFORMATION SYSTEMS (CIS)

## STUDENTS MUST EARN A GRADE OF "C" OR ABOVE TO SATISFY THE PREREQUISITES IDENTIFIED IN THE FOLLOWING COMPUTER INFORMATION SYSTEMS COURSES.

1700. (CPSC 1700) Personal Productivity with Information Systems Technology - This course enables students to improve their work with technology. The emphasis is on personal productivity concepts through using functions and features in computer software such as macros, query languages, databases, presentation graphics, and web authoring. Prerequisite: CPSC/BSAD 1005 or completion of all developmental mathematics courses. (3)
1701. Fundamentals of Information Systems - Systems theory, quality, decision making and the organizational role of information systems are introduced. Information technology including computing and telecommunications systems are stressed. Concepts of organization and information system growth and re-engineering are introduced. Prerequisite: Completion of all developmental mathematics courses. (3)
2700.Electronic Business Strategy, Architecture and Design- This course examines the linkage of organizational strategy and electronic methods of delivering products, services, and exchanges in inter-organizational, national, and global environments. Prerequisite: CIS 1800. (3)
1702. Information Systems Theory and Practice - Students who have constructed personal information systems will be exposed to the theory of the IS discipline. Application of these theories to the success of organizations and to the roles of management, users, and IS professionals are presented. Prerequisite: CIS 1800. (3)
1703. (CPSC 3710) Database - Introduction to database management systems, database architectures; theoretical and applications data definition and query languages; database design and normalization; recovery, security and protection; concurrency; recent advances in databases. Students will be involved in database projects in which at least one is a team project. Prerequisite: CPSC 2740. (3)
1704. Physical Design in Emerging Environments - Students with experience in database and analysis and design will extend their knowledge by implementing an information system using a programming language capable of calling functions in a database management system. Teams will use project management to implement an information system. Prerequisite: CIS 3710. (3)

4800-4805. Capstone Project - Advanced CIS majors operating as a high performance team will engage in and complete the design and implementation of a significant information system. Project management, management of the IS function and systems integration will be components of the project experience. The students' project experience will also include an integration of topics learned throughout the curriculum thus providing a capstone experience for the student. Prerequisite: CIS 3710. (1-2)
4999. Senior Comprehensives - (0)

4999P. Senior Comprehensives Programming- (0)

## COMPUTER SCIENCE (CPSC)

## STUDENTS MUST EARN A GRADE OF "C" OR ABOVE TO SATISFY THE PREREQUISITES IDENTIFIED IN THE FOLLOWING COMPUTER SCIENCE COURSES.

1005. (BSAD 1005) Introduction to PC's and Software Applications- Usually offered fall and spring semesters. An introductory computer course offered to non-majors or as a nondepartmental elective. Basic hardware/software terminology. Hands-on instruction on business application software covering database management systems, spreadsheets and word processing using contemporary office software such as Microsoft ${ }^{\circledR}$ Office. (3)
1006. (CIS 1700) Personal Productivity with Information Systems Technology - This course enables students to improve their work with technology. The emphasis is on personal productivity concepts through using functions and features in computer software such as databases, presentation graphics, and web authoring. Prerequisite: CPSC/BSAD 1005 or completion of all developmental mathematics courses. (3)

1710/1710D. Computer Science I- Usually offered fall and spring semesters. Introduces the fundamental concepts of procedural programming. Topics include data types, control structures, functions, arrays, and the mechanics of running, testing, and debugging. This course also includes an introduction to computers and a history of programming languages. Problem solving techniques and software development are discussed and used in projects. CPSC 1710 has three lectures per week and 1710D meets once per week. Prerequisite: MATH 1030. Corequisite: CPSC 1710D. (3/0)

1720/1720D. Computer Science II - Usually offered fall and spring semesters. Introduces the concepts of object-oriented programming to students with a background in the procedural paradigm. A brief review of control structures and data types with an emphasis on structured data types and array processing is presented. The object-oriented paradigm is introduced with emphasis on the definition and use of classes along with the fundamentals of object-oriented design. Other topics include files, basic sorting and searching techniques, fundamental data structures (stacks and queues) and an introduction to software engineering issues. CPSC 1720 has three lectures per week and 1720D meets once per week. Prerequisite: CPSC 1710. Corequisite: CPSC 1720D. (3/0)
1760. Introduction to Programming in C- Usually offered spring semester. A survey of the problem solving techniques, strategies and mechanisms available in the C language. Emphasis of the course is on development and implementation of top-down, structured solutions to problems. Topics include basic computer organization, the edit-compile-debug cycle, variable typing, arithmetic operations, basic input and output, functions, control flow mechanisms, arrays, pointers, strings, and structures. Corequisite: MATH 1070. (3)

2110/2110L. (CPEN 2110/2110L) Logic Design - Usually offered fall and spring semesters. Students are introduced to the fundamental operations and components of computers. Topics include: number systems, Boolean algebra and logic gates, simplification of Boolean functions, adders, multipliers, decoders and encoders, PLAs, multiplexers, latches, flip-flops, state diagrams and equations, sequential circuit design, basic computer operation cycle, operand addressing, instruction set design, RISC vs. CISC, and an introduction to HDL and a simple ALU. Prerequisite: CPSC 1710/1710D. Corequisite: CPSC 2110L. (3)
2120. Introduction to Computer Organization- Usually offered fall and spring semesters. Students will be introduced to the organization and operation of a computer. Topics include: an introduction to assembly language programming, representation of data including floating point, instruction set encoding, registers and addressing modes, interrupts, busses, controllers, input/output, files, memory hierarchy, and cache replacement strategies. Prerequisites: CPSC 2110 and CPSC 1720. (3)
2730. Data Structures - Usually offered fall and spring semesters. Builds on the topics discussed in CPSC 1710 and 1720 to introduce students to the fundamental concepts of data structures and the algorithms derived from them. Topics include recursion, the underlying philosophy of object-oriented programming, fundamental data structures (including stacks, queues, linked lists, hash tables, trees, and graphs), sorting, the basics of algorithmic analysis, and an overview of programming paradigms. Prerequisite: CPSC 1720. (3)
2740. Software Development - Usually offered spring semester. An implementationoriented introduction to the software development techniques used to create medium-scale interactive applications. Topics include event-driven programming, computer graphics, humancomputer interaction, and graphical user interfaces. Students will be required to complete a number of projects, at least one of which will be a team project. Prerequisite: CPSC 2730. (3)
2800. Multimedia - This course introduces students to multimedia concepts, methods, and techniques. Topics include a thorough coverage of web-based graphics, text, audio, and video. Students will gain experience in graphic techniques (including image creation and interactivity), advanced web design (animation, controls, and sound); all by using commercial products within a 'mock' web design company. Prerequisite: Completion of all developmental mathematics courses. (3)
3040. (MATH 3040) Numerical Analysis - Methods of numerical computation. Error analysis, solutions of equations, interpolation and polynomial approximation, least squares approximation, numerical differentiation and integration, numerical solution to differential equations. Prerequisites: MATH 2080 and a working knowledge of some programming language. Corequisite: MATH 2530. (3)
3060. (CPEN 3060) Design and Analysis of Algorithms - Usually offered fall semester. Design and analysis of computer algorithms in terms of space and time complexity, analysis of several advanced search, sort, tree, and graph algorithms; discussion of algorithmic strategies such as divide-and-conquer, greedy, backtracking, and branch-and-bound; introduction to NP-hard and NP-complete problems. Prerequisites: CPSC 2730 and MATH 2550. (3)

3110, 3111, 3112, 3113. Independent Study in Computer Science - Individual or group study in an approved area of computer science. Guidance by one or more members of faculty. Prerequisite: Permission of the chairperson. Credit determined by faculty member and chairperson. $(\mathbf{0}, \mathbf{1}, \mathbf{2}, \mathbf{3})$
3130. (CPEN 3130)Computer Architecture- Usually offered spring semester. This course introduces students to: computer organization, processors, memories, peripherals, study of recent advances in computer architecture, parallelism, hardware, software, and multilevel machines. Prerequisites: CPSC 2120 and CPSC 2730. (3)
3140. (CPEN 3140)Operating Systems - Usually offered fall semester. This course introduces students to the design and implementation of operating systems. Topics include: an overview of the components of an operating system, mutual exclusion and synchronization, implementation of processes, scheduling algorithms, memory management, and file systems. Prerequisites: CPSC 2120 and CPSC 2730. (3)
3205. C \& UNIX - Familiarization with C and UNIX. Detailed study of C and UNIX with focus on application programming in C in the UNIX environment. Shell programming, UNIX internals and file system. Extensive programming. Prerequisite: CPSC 2740. (3)

3240/3240L. Computer Networks - This course introduces the student to the structure, implementation, and the theory of networks, as well as their applications. Topics include the study of network protocols, network modes, different layers of ISO-OSI model, network topology, routing algorithms, and different types of Local Area and Wide Area Networks. Prerequisite: CPSC 3140. Corequisite: 3240L. (3)

3601, 3602, 3603, 3604. Topics in Computer Science - Selected topics in computer science, offered as required, contents determined by needs of students in various majors at the time course is offered. Prerequisites depend on the topic. (1, 2, 3, 4)
3710. (CIS 3710) Database - Introduction to database management systems, database architectures; theoretical and applications data definition and query languages; database design and normalization; recovery, security and protection; concurrency; recent advances in databases. Students will be involved in database projects in which at least one is a team project. Prerequisite: CPSC 2740. (3)

3900-3905. Computer Science Summer Internship I \& II - Offered first summer session. Ten to twelve weeks of experience in industry or government-related jobs. Completion of two internship reports. Graded on a Pass/Fail basis. Prerequisite: CS or CIS major, completion of 62 degree credit hours (junior standing) and 2.0 or above g.p.a. (3-3)

3950-3955. Summer Undergraduate Research I \& II - Offered first summer session. Research participation for Computer Science/Computer Information Systems majors. Graded on a Pass/Fail basis. Prerequisite: CS or CIS major, sophomore standing, 2.5 gpa or above and permission of the instructor. (3-3)
4100. Automata Theory and Language Translation - Introduction to automata theory and its application to language translation. Topics include: the basic concepts of finite automata, Turing machines and computability; finite state acceptors and regular sets, context-free grammars, and push-down automata. Prerequisites: CPSC 2110 2740, and MATH 2560. (3)
4301. Computer Graphics- Introduction to computer graphics concepts, two and three dimensional graphics techniques and some advanced techniques such as shading, animation, and polygon filling are studied. Prerequisites: CPSC 3060 and MATH 2030. (3)
4304. Artificial Intelligence- Introduction to the fundamental principles of artificial intelligence. Topics include: knowledge representation, first-order predicate calculus, graph representations, state space search, heuristic search, uncertainty management. Survey of selected Artificial Intelligence application areas. Some programming in Lisp, Prolog, or other language. Prerequisites: CPSC 2740, CPSC 3060, MATH 2030, and PHIL 2040. (3)
4405. Parallel Processing - This course is a general introduction to Parallel Processing and focuses on two levels at which this can be perceived and applied: the hardware/software system level, and the algorithmic and programming level. Topics to be covered include the history of large-scaled computing, the architectural classification, design and algorithms for various machines, and methods for designing programs for parallel machines. Prerequisites: CPSC 3130, CPSC 3140, and CPSC 3060. (3)
4410. Programming Languages - Usually offered fall semester. Structural properties of programming languages, semantics of programming languages. A study of contrasts between procedural and applicative languages. A review of languages from different language paradigms that illustrate the principles of programming language theory. Prerequisites: CPSC 2740 and CPSC 4100. (3)
4420. Compiler Design - Compiler organization: lexical, syntactic analysis, symbol tables; parsing algorithms; storage allocation; code generation; code optimization. Design and implementation of a compiler. Prerequisites: CPSC 2740 and CPSC 4100. (3)

4800-4805. Capstone Project - Students are required to complete a significant project that reinforces, through practice, the concepts learned throughout the Computer Science curriculum. Prerequisites: All 3000-level required CPSC courses. (1-2)
4999. Senior Comprehensives - (0)

4999P.Senior Comprehensives Programming - (0)

## COOPERATIVE EDUCATION (COED)

2010-2020. Cooperative Education - Full-time work experience in business, industry or government in an area related to student's academic program. Prerequisites: Student must be at least a sophomore in good standing and have the approval of the student's departmental faculty advisor and the Career Services Office. COED 2010 is prerequisite to 2020. (3-3)

2030-2040. Cooperative Education - Part-time work experience in business, industry or government in an area related to the student's academic program. Prerequisites: Student must be at least a sophomore in good standing and have the approval of the student's departmental faculty advisor and the Career Services Office. COED 2030 is prerequisite to 2040. (0-3)

3010-3020. Cooperative Education - Full-time work experience in business, industry or government in an area related to student's academic program. Prerequisites: Student must be in good standing and have the approval of the student's departmental faculty advisor and the Career Services Office, and have six hours of COED credit before enrolling in COED 3010. COED 3010 is prerequisite to 3020 . (0-3)

## ECONOMICS (ECON)

1030.* (ECON 1030TV).* Introduction to Economics - Usually offered fall and spring semesters. What economics is all about, the U.S. economy, supply and demand, consumer demand, production and supply decision, market structure, labor markets, the business cycle, aggregate supply and demand, money and banks, the monetary policy vs. the fiscal policy, international trade. (3)
2010.* Principles of Micro Economics - Usually offered fall and spring semesters. Functioning of market system; supply and demand, theory of the consumer, production and cost theory of the firm; imperfect competition and government regulation. (3)
2020.* Principles of Macro Economics - Usually offered fall and spring semesters. Measuring national income, measuring inflation (CPI) and unemployment, introduction to the basic macroeconomic model of the quantity theory of money, money supply growth and inflation, Keynesian theory of income, employment and the price level, the neoclassical synthesis, the macro economic impacts of monetary and fiscal policies. (3)
*Students having completed ECON 1030 may not earn credit for ECON 2010 or 2020 without relinquishing ECON 1030 credit.

2070**- 2080.*** Statistics I \& II - 2070 usually offered fall semester; 2080 usually offered spring semester. Descriptive statistics, probability, discrete and probability distributions, sampling distributions, interval estimation, hypothesis testing, tests for goodness of fit and independence, regression analysis- simple and multiple, regression analysis and model building residual analysis and the Durbin-Watson test, time series analysis, testing stationarity and nonstationarity of a time series, cointegration. Prerequisite: MATH 1030. (3-3)
**Students required to complete ECON 2070 may not earn Departmental credit for other research methods or applied quantitative analysis courses without approval by the Chairperson.
***Mathematics Department majors may substitute MATH 1020 as the prerequisite for ECON 2080.
3010. Money and Banking - Valuation of stocks and bonds, financial institutions, the structure of the interest rates, definitions of money, bank reserves and the money supply, the Federal Reserve System and the tools of the monetary policy, the role of money in an economy, foundation of the monetarist philosophy, the Keynesian framework, the IS-LM system, understanding foreign exchange, Balance of payments. Prerequisites: ECON 2010 and ECON 2020. (3)
3060. Public Finance- Organization and administration of government revenues and expenditures; emphasis on all levels of government. Prerequisites: ECON 2010 and 2020. (3)
3091. Economics of Black America- Application of economic theory to situations of African Americans; economic analysis of discrimination; black-white income differentials; human capital hypothesis; investigation of schemes aimed to improve economic status of African Americans. Prerequisites: ECON 2010 and 2020. (3)
3110. Intermediate Micro Economics - Extension of ECON 2010; supply and demand; consumer demand theory; firm and market equilibrium; allocation of resources; welfare economics. Prerequisites: ECON 2010. (3)
3120. Intermediate Macro Economics - Extension of ECON 2020; income determination; multipliers; theory of consumption; economic fluctuations; employment analysis; national income analysis; investment theory. Prerequisites: ECON 2020. (3)
3200. Managerial Economics - Use of Microeconomic methods as management decision making tools in order to assure the attainment of a firm's goals and objectives; frequent use of case studies with microeconomic applications. Prerequisites: BSAD 3055 and ECON 2010. (3)
4050. International Economics - The causes and effects of international trade, the gains from trade, Comparative Advantage, the Hecksher-Ohlin Theorem the determination of the terms of trade, the determination of income in the open economy, balance of payments, the international monetary system. Prerequisites: ECON 2010 and ECON 2020. (3)
4070. Government and Business - Government regulation and the theory of the business enterprise system. Prerequisites: ECON 2010. (3)

4501, 4502, 4503. Directed Readings in Economics - Reading in area of economics mutually agreed upon by instructor and student which is not covered in current course. Prerequisite: Permission of chairperson . $(\mathbf{1 , 2 , 3})$

## EDUCATION

## (EDEC, Early Childhood; EDEL, Elementary; EDSC, Secondary; EDSP, Special Education, EDUC, General Education; HLTH, Health; PHED, Physical Education)

## Early Childhood Education (EDEC)

2170C. Child Growth and Development - At the completion of this course, the student will be able to delineate the fundamentals and principles of growth and development from prenatal to adolescence. Field experiences are an integral part of the course. (3)

3060A. (EDUC 3060A) Strategies and Techniques in Elementary School Mathematics -
This course is designed to prepare elementary school teacher candidates to become competent professionals who can guide and facilitate classroom interactions to meet the learning needs of diverse populations of students. (3)

3060B. (EDUC 3060B) Strategies and Techniques in Elementary School Mathematics -
This course is a continuation of 3060A and concentrates on using technology in teaching mathematics in the elementary classroom. (3)
3140. Materials and Methods of Teaching Math in the Early Childhood Setting- This course is designed to prepare teacher candidates to facilitate young children's learning of mathematical principles, concepts, and operations. Teacher candidates will be able to develop and implement a mathematics curriculum that is appropriate for children between the ages 3-8 years, using developmentally appropriate materials and methods. Field experiences are an integral part of this course. (3)
3150. Methods and Materials in Preschool Education - To prepare the student to utilize traditional and innovative methods and instructional materials for the preschool child. (3)
3160. Curriculum and Experiences for the Preschool Child- At the completion of this course, the student will be able to specify the fundamentals and principles of the varied phases of comprehensive readiness programs and experiences appropriate for the preschool child. (3)
3180. Organization and Administration of Child Development Programs- This course is designed to teach students to organize and administer child development programs. Twenty hours of administrative internship experiences in early childhood education programs are required during this course. (3)
3190. Methods and Materials of Early Childhood Education- At the completion of this course, the teacher candidate will be able to plan curriculum appropriate for the young children using methods and materials that provide young children with opportunities to acquire skills and build competencies in all areas of development. (3)
4050. Practicum in Nursery/Kindergarten - At the completion of this course, the student will be able to apply knowledge, skills and abilities in centers for preschool children. Prerequisites: EDEC 2170 and 3190. (3)

## Elementary Education (EDEL)

2061. Foundations of Curriculum- At the completion of this course, the student will be able to select and organize the components required within the lower elementary educational curriculum, to develop and utilize methods, materials, and media in the classroom. The student will be able to survey, understand, and evaluate instructional techniques and procedures that aid in effective teaching and teacher/subject competency. Fifteen hours of field experiences are required. (3)
2062. Nutrition (BIOL 2400)- At the completion of this course, the student will have a basic knowledge of techniques and materials for teaching nutrition. Students will become knowledgeable consumers of nutrients and nutrition information. Course content includes: nutrition as a foundation for health; the importance of food in the human body; the nature and composition of food; release and utilization of nutrients; planning the daily diet and the process of digestion and absorption. (3)
2063. Methods of Teaching Elementary School - At the end of this course, the student will be able to effectively plan and implement lessons for the elementary classroom. Emphasis will be given to the contents of language arts, social studies, mathematics, and science. The student will learn how to implement the prevailing trends in pedagogy while studying the national standards and local frameworks. A minimum of twenty (20) field experience hours are required. (3)

3050A - 3050B. Methods and Materials in the Teaching of Reading - At the completion of this course, the student will be able to develop and implement a comprehensive classroom reading program. The whole language approach is incorporated into the basal reading program. Ten hours of field experiences are included. (3-3)
3071. Curriculum Applications I - At the completion of this course, the student will be able to use instructional methods, materials, and media specific to the elementary education preservice teacher. Course focus will include the integrated language arts and effective ways of teaching social studies. Ten hours of field experiences are required. Prerequisite: EDEL 3061. (3)
3081. Curriculum Applications II- At the completion of this course, the student will be able to use instructional methods, materials, and media specific to the elementary education preservice teacher. Course focus will include effective strategies for teaching of mathematics and science. Ten hours of field experiences are required. Prerequisite: EDEL 3061. (3)
4270. Guidance Techniques for Elementary Teachers - At the completion of this course, the student will understand the psychological and philosophical bases for a school guidance program. Emphasis is on understanding and being able to use diagnostic techniques with groups and individuals. Understanding the purpose and practice of parental consultation is stressed. (3)

## Secondary Education (EDSC)

3010. Secondary Education - At the completion of this course, the student will be able to describe the historical development, the administrative and the instructional organization of secondary schools. Based on theory, the student will plan and practice instructional techniques through micro and field experiences. (3)

3020A - 3020B. Music in the Junior-Senior High School - At the completion of this course, the student will be able to prepare materials to be used in music instruction and demonstrate historical, experimental and other pedagogical strategies in the teaching of choral, instrumental, and general music as well as to evaluate the music curriculum at the secondary level. (3-2)

3021, 3022, 3023. Special Methods - At the completion of this course, the student will be able to plan, evaluate, and use instructional strategies suited to the academic disciplines studied. $(1,2,3)$

3023B.Methods of Teaching Biology - This course is designed to prepare preservice high school biology teachers to use instructional methods, materials, and laboratory equipment common to the biological sciences. Course focus will include the methods of setting up a biology laboratory, laboratory safety, laboratory methods, equipment, and effective ways of teaching biology. (3)

3023C. Methods of Teaching Chemistry - This course is designed to prepare preservice high school chemistry teachers to use instructional methods, materials, and laboratory equipment common to the biological sciences. Course focus will include the methods of setting up a chemistry laboratory, laboratory safety, laboratory methods, equipment, and effective ways of teaching chemistry. (3)

3023M. Methods of Teaching Mathematics - This course is designed to prepare secondary mathematics teachers to become competent professionals who can guide and facilitate classroom interactions to meet the learning needs of diverse populations of students. (3)

3023S. Methods of Teaching History and Social Studies - This course provides an overview of the methods and materials currently used in secondary social studies education. A focus will be placed on developing skills that will aid in designing instruction that effectively impacts the learning of all students and integrating technology in the teaching and learning process. All course assignments and objectives will relate to meeting the needs of diverse learners. Planning for the school year, course of study, designing units and lesson plans, and effective instruction are addressed. (3)
4150. Teaching Reading in the Content Areas - At the completion of this course, the student will be able to implement an effective secondary school reading program. Writing, study skills and reasoning are emphasized through subject area material. Ten hours of field experiences are required. (3)

4261, 4262, 4263. Contemporary Trends in Secondary Education - At the completion of this course, the student will be able to identify and describe current movements in instructional methods. (1, 2, 3)

4061T.Student Teaching (Middle School and Secondary Education Majors) (9) - This course includes:
(a) Observation and participation in classroom;
(b) Full-time participation in instructional activities and other teaching assignments;
(c) Readings and experiences in classroom management and teaching techniques;
(d) Readings and experiences in school administration as it relates to classroom teaching;

## Special Education (EDSP)

2040. Introduction to Exceptional Children - At the completion of this course, the student will be able to relate basic concepts, current issues, and future trends in Special Education which provides basic information for the elementary education major and a foundation for further study for the special education major. An overview of each area of exceptionality is included as well as historical development, basic concepts, current issues and programs, and future trends in special education. (3)
2041. Introduction to Children with Mild/Moderate Handicaps - At the completion of this course, the student will be able to discuss the historical development of Special Education. Using a generic approach, the student will be able to contrast and compare methods of assessing, diagnosing, placing and programming for students who are classified as mild/moderate in the school system. (3)
2042. Vocational and Transition Services for Students with Disabilities - Organization and design of training programs to promote independence, vocational and community adjustment of persons with disabilities; curriculum materials, methods and organizational strategies for adolescent and adult learners, families and community service providers. (3)
2043. (EDUC 2044) Methods of Classroom Organization and Management- At the completion of this course, the student will be able to manipulate those variables that affect classroom management: space, time, multiplicity of tasks, difficulty level, language, and interpersonal relationships. Twenty hours of field experience required. (3)
2044. Behavioral Approaches to Managing the Mild/Moderate - At the completion of this course, the student will be able to observe, record and write behavioral objectives, establish contingencies, and implement social and academic programs for students with mild/moderate disabilities. Twenty hours of field experience required. (3)
2045. Methods of Teaching Basic Subjects to the Mild/Moderate - At the completion of this course, the student will be able to apply the clinical teaching cycle in writing curriculum based instruction. A theme plan of instruction will be emphasized. Twenty hours of field experience required. (3)
2046. Methods of Designing and Assessing Materials for the Mild/Moderate - At the completion of this course, the student will be able to design, construct, and evaluate both teachermade and manufactured materials including computer software. Twenty hours of field experience required. (3)
2047. Practicum in Tests and Measurement - At the completion of this course, the student will be able to interpret pupil appraisal regulations as contained in Bulletin 1508. Students will also be involved in the administration and scoring of formal tests and the construction, administration, and interpretation of informal tests. A written case history will be required. Sixty hours of field experience required. (3)
2048. Humanistic Approaches to Managing the Mild/Moderate - At the completion of this course, the student will be able to apply a psycho dynamic approach to social behaviors. The student will use a variety of therapies: art, music, drama, as well as reality therapy. Twenty hours of field experience required. (3)
2049. Methods of Teaching Students with Learning/Behavior Problems - At the completion of this course, the student will be able to apply actual diagnostic-prescriptive teaching in a micro teaching setting. Students will be able to write and implement IEP's. Twenty hours of field experience required. (3)
2050. Mainstreaming Practicum- At the completion of this course, the student will be able to identify, assess, diagnose, and implement the I E P of a student who is mainstreamed or included in a regular classroom. Sixty hours of field experience required. (3)

4060T.Student Teaching (Special Education Majors) (9) - This course includes:
(a) Observation and participation in classroom;
(b) Full-time participation in instructional activities and other teaching assignments;
(c) Readings and experiences in classroom management and teaching techniques;
(d) Readings and experiences in school administration as it relates to classroom teaching.

## Education (EDUC) (General Education)

1000. Teacher Prep - Sessions to prepare students for the professional teacher education examinations. A grade of P is given for students who successfully complete the practice session. (0)
1001. Introduction to Schools, Culture \& Society/Practicum - This course introduces students to teaching as a profession. It provides a broad interdisciplinary examination of the school-society relationship in America and of the many issues, particularly cultural, embedded in this relationship. Additionally, this course will help prepare the student to understand and critically evaluate the institutional goals, policies, and practices that surround and shape classroom practice. Field experience hours are required. (3)
1002. Historical and Philosophical Foundations of Education - At the completion of this course, the student will be able to identify and describe the major positions in philosophy and significant historical developments in education and relate these to current viewpoints and contemporary practices. (3)
1003. Instructional Technology - Usually offered fall and spring semesters. The course outline will begin with where the students are in educational technological expertise. Through an individualized approach, all students will learn word processing, databases, graphics, and management applications for microcomputers in DOS/Windows or Macintosh operating systems. After these basics, students will learn basic hypertext authoring incorporating multimedia elements. The course features an introduction to online communication, e-mail, and the Internet. The course will present strategies for evaluating and using software in specific curricular settings. A course project based on the grade level and disciplinary interests of the students will be the final product of the course. (3)

2005R. Praxis PPST Reading - Students must register for this part of the Praxis during the semester that they officially plan to take the test. A grade of P is recorded on the student's transcript for a passing grade and NG for a score below the state qualifying score. (0)

2005W. Praxis PPST Writing- Students must register for this part of the Praxis during the semester that they officially plan to take the test. A grade of P is recorded on the student's transcript for a passing grade and NG for a score below the state qualifying score. (0)

2005M. Praxis PPST Math- Students must register for this part of the Praxis during the semester that they officially plan to take the test. A grade of P is recorded on the student's transcript for a passing grade and NG for a score below the state qualifying score. (0)
2020. Exploring Science in PK-12- This course is a joint effort between faculty in the Division of Education and the Departments of Physics, Chemistry, and Biology. It is designed both for those students who are exploring science teaching careers as well as those pursuing science careers. Field experiences will be an integral part of this course and will provide students opportunities to observe science teaching as well as plan inquiry based lessons. (3)
2025. (PSYC 3020) Child Psychology- At the completion of this course the student will be able to identify and describe the physiological, intellectual, social, emotional, and moral factors which affect child growth and development.
Prerequisite: PSYC 1010. (3)
2030. Children's Literature - At the completion of this course, the student will be able to select materials based on the interests of children of varying ages and background. The students will develop these skills using simulation, micro-teaching, and practicum. (3)
2044. (EDSP 2044) Methods of Classroom Organization and Management - At the completion of this course, the student will be able to manipulate those variables that affect classroom management: space, time, multiplicity of tasks, difficulty level, language, and interpersonal relationships. Twenty hours of field experience required. (3)

3005L. Principles of Learning and Teaching Praxis II- Students must register for the Praxis II during the semester that they officially plan to take the test. A grade of P is recorded on the student's transcript for a passing grade and NG for a score below the state qualifying score. (0)
3030. Philosophy of Education - This course is designed to prepare the student to develop his/her own philosophy of education through the study of current philosophies, methods of philosophical analysis, and evaluation of movements in education. (3)
3040. (PSYC 3040) Educational Psychology- Usually offered fall semester. This course is designed to prepare the student to identify and describe the cognitive and affective factors influencing the learning process through the study of the nature, conditions, outcome, and evaluation of learning. Systems approach, media, and clinical experiences are used. (3)

3060A. (EDEC 3060A) Strategies and Technology in Elementary School Mathematics -
This course is designed to prepare elementary school teacher candidates to become competent professionals who can guide and facilitate classroom interactions to meet the learning needs of diverse populations of students. Field experiences are an integral part of this course. (3)

3060B. (EDEC 3060B) Strategies and Technology in Elementary School Mathematics -
This course is a continuation of 3060A and concentrates on using technology in teaching mathematics in the elementary classroom. Field experiences are an integral part of this course. (3)
3200. Middle School Teaching Strategies - This course is designed to prepare middle school teacher candidates to become competent professionals who can guide and facilitate classroom interactions to meet the learning needs of diverse populations of students in the middle school environment. Field experiences are an integral part of this course. (3)

4001, 4002, 4003. Directed Project in Education - Register only with permission of chairperson. $(\mathbf{1 , 2 , 3})$

4011, 4012, 4013. Directed Readings in Education - Register only with permission of chairperson. $(\mathbf{1 , 2 , 3})$
4030. Educational Measurement and Evaluation - This course is designed to prepare the student to employ elementary statistical methods in the interpretation of test measurement; to construct and use various types of tests and measurement scales; and to utilize tests in the diagnosis and remediation of student performance. (3)

4060S. Student Teaching Seminar (0) (All Education Majors) - This seminar will include weekly meetings to discuss the student teaching experience. Students will exchange ideas and provide assistance to each other along with the professor providing guidance throughout the semester. Students will develop lesson plans and behavior management plans to work with disruptive students. To be taken concurrently with student teaching
4065. Student Teaching (All Education Majors) (12) or

4060A. Student Teaching (Elem. and Early Childhood Education Majors) (9) - This course includes:
(a) Observation and participation in classroom;
(b) Full-time participation in instructional activities and other teaching assignments;
(c) Readings and experiences in classroom management and teaching techniques;
(d) Readings and experiences in school administration as it relates to classroom teaching.
4090. (PSYC 4090) Adolescent Psychology - At the completion of this the student will identify and describe characteristics and attendant problems of adolescent growth and development and to utilize relevant techniques in teaching and guidance based on modern research. (3)
4100.Audio-Visual Education - This course prepares the student to select, organize, and use audio-visual materials and equipment based on curriculum and community needs; current AV holdings and how they are cared for; future curriculum and aids available. (3)

4113R. Clinical Procedures in Remedial Reading in the Elementary School - At the completion of this course, the student will be able to diagnose and remediate reading difficulties. Informal and formal diagnostic techniques will be included. Opportunities for remedial tutoring of disabled readers in a laboratory setting are provided. Ten hours of field experiences required. (3)
4120. Principles of Guidance - This course prepares the student to apply individual and group guidance techniques and activities based on student needs which can be administered though student services.. Prerequisite: Senior standing. (3)
4200. Multicultural Education - This course is designed with emphasis on the pluralistic aspect of society as it relates to schools, teaching, learning and the development of curriculum considerations for elementary and secondary areas of education. Candidates will be introduced to learning styles and various teaching techniques to meet the needs of all learners at their appropriate grade levels. (3)
4999. Senior Comprehensives - Required senior comprehensive for education majors. Majors who have successfully passed all required sections of the N.T.E. including the specialty area for certification before their last semester are exempt from the comprehensive. (0)

## Health (HLTH)

1141. First Aid and C.P.R. - At the completion of this course, students will have earned certification in Community First Aid, Safety and CPR. (1)
1142. Personal and Environmental Health - At the completion of this course, students will have gained an understanding of the various aspects of implementation of procedures, policies, accident prevention techniques, and remedial action necessary for living a healthy, long life. (3)
1143. Comprehensive Health - At the completion of this course students will have been provided with knowledge of current health trends and issues on a vast number of contemporary health topics. (3)
1144. General Safety Education - At the completion of this course, students will have an understanding of the basic principles of safety education in all areas of safety as well as development of safety skills, habits, and attitudes to prevent accidents. (3)
1145. School Health Program - At the completion of this course, students will understand the history, scope, needs and basic principles underlying the study of health and health education. (3)
1146. Basic Health Science - At the completion of this course, students will understand the fundamental principles and importance of personal hygiene and good health habits. They will also become more aware of contemporary health issues. (3)
1147. General Health and Safety Education - At the completion of this course, students will understand the theory, teaching procedures, and supervisory techniques connected with school and community health and safety. (2)

## Physical Education (PHED)

## Physical Education (PHED) Academic Courses

2011. Elementary School Physical Education Practicum - At the completion of this course, students will have learned how to make practical applications of the theories of physical education through actual teaching experiences in the lower elementary schools. Prerequisite: PHED 2015. (1)
2012. Elementary School Physical Education - At the completion of this course, students will have been provided with knowledge of general procedures needed to develop competencies for class organization and methods of teaching physical education in grades K-8. Physical education majors and minors must complete an on-site Practicum at an assigned elementary school. (3)
2013. Adaptive Physical Education- At the completion of this course, students will have acquired a knowledge of the basic concepts of organization and conducting physical education programs for the mentally, physically, emotionally and/or socially disabled child. (3)
2130.Anatomy and Physiology - At the completion of this course, students will understand the normal functioning of the human body, the interrelationship of organs and organ systems, and their relationship to the function of the human body. Prerequisite: BIOL 1030/1030L and 1040/1040L (3)
2014. Physiology of Exercise - At the completion of this course, students will recognize the basic physiological concepts of the body, and the relationships of activity and fitness to health. Prerequisite: PHED 2130. (3)
2015. Methods and Materials of Health and Physical Education and Safety - At the completion of this course, students will have an understanding of the appropriate methods, selection, development, and use of materials for teaching K-12 grades physical education, health and safety. (3)
2016. Sports in American Society - At the completion of this course, students will have acquired an understanding of the historical developments, trends, laws, philosophical views and societal issues of physical education and sports in America. (3)
2017. Kinesiology - At the completion of this course, students will have an understanding of the human mechanism necessary for movement, together with the ability to analyze and evaluate motor skills. Prerequisite: PHED 3030. (3)
2018. Care and Prevention of Athletic Injuries - At the completion of this course, students will have an understanding of the preventive measures, and prompt, adequate treatment of sports injuries. (3)
2019. History and Principles of Physical Education - At the completion of this course, students will understand the nature and scope of physical education, including philosophy, history and profession principles. (3)
2020. Driver Education and Traffic Safety- This course is designed to assist prospective teachers in analysis of the driving task, understanding theory and gaining "behind-the-wheel" teaching experience. (3)

4340S. Seminar in Health and Physical Education - At the completion of this course, students will have a comprehensive view of teaching physical education, including an understanding of the professional requirements, current literature, and budget planning. (3)
4350. Tests and Measurements in Health and Physical Education - At the completion of this course, students will have a basic understanding of statistical methods. The student will have laboratory test experiences in physical fitness and motor ability skills. (3)
4360. Organization and Administration of Health, Physical Education, and Safety Education - At the completion of this course, students will have an understanding of the administration of a physical education program, including program planning, evaluation of students, as well as public and professional relations. (3)
4390. Curriculum Innovation in Safety and Instructional Devices- At the completion of this course, students will know how to organize and administer a driver education program. Students will become proficient in the use of simulators, behind the wheel instruction, and other techniques used in driver education. Prerequisites: HLTH 2281 and PHED 4320. (4)
4999. Senior Comprehensives - A comprehensive exam for physical education majors designed to test students' knowledge of the major. Majors passing all required sections of the National Teachers Exam including the specialty areas for certification before the semester in which they would take the comprehensive exam, are exempt from this exam.(0)

## Physical Education (PHED)

## *Test-Out Courses

*Upon completion of a test-out course, students will have successfully performed and passed at least $70 \%$ of the skills required for their respective sport. Test-out courses fulfill the core curriculum physical education requirement but do not offer academic credit.

0990B.Physical Education Requirement Basketball- Usually offered fall and spring semesters. New freshman and new transfer students' skills test in basketball. (0)

0990V. Physical Education Requirement Volleyball - Usually offered fall and spring semesters. New freshman and new transfer students' skills test in volleyball. (0)

0990T.Physical Education Requirement Tennis- Usually offered fall and spring semesters. New freshman and new transfer students' skills test in tennis. (0)

0990M. Physical Education Requirement Stunt/Tumbling - New freshman and new transfer students' skills test in stunts/tumbling. (0)

0990G. Physical Education Requirement Gymnastics - Usually offered fall and spring semesters. New freshman and new transfer students' skills test in gymnastics. (0)

0990S. Physical Education Requirement Swimming - Usually offered fall and spring semesters. New freshman and new transfer students' skills test in swimming. (0)

0990F.Physical Education Requirement Folk Dancing - Usually offered fall and spring semesters. New freshman and new transfer students' skills test in folk dance. (0)

## Activity Courses

1010. Introduction to Team Games - At the completion of this course, students will be able to display knowledge, competency and fundamental skill proficiency in soccer and basketball. (1)
1011. Introduction to Team Games - At the completion of this course, students will be able to display knowledge, competency and fundamental skill proficiency in volleyball and softball. (1)
1012. Techniques - At the completion of this course, students will be able to proficiently execute a variety of fundamental motor skills. (2)
1013. Basic Aerobics - At the completion of this course, students will be able to proficiently execute a variety of dance routines and display knowledge competency in aerobic exercise. (1)
1014. Beginning Tennis- At the completion of this course, students will be able to display knowledge, competency and fundamental skill proficiency in tennis. (1)
1015. Folk Dancing - At the completion of this course, students will be able to display knowledge, competency and proficiency perform a variety of fundamental steps in traditional folk dances. (1)
1016. Step Aerobics - Development of cardiovascular conditioning through aerobic exercise and dance routines. (1)
1017. Volleyball and Basketball - At the completion of this course, the students will have an understanding of basic techniques, strategies, and rules of volleyball and basketball. (1)
1018. Golf - At the completion of this course, students will be able to display knowledge, competency and fundamental skill proficiency in golf. (1)
1019. Stunts and Tumbling- At the completion of this course, students will be able to display knowledge, competency and skill proficiency in executing fundamental stunts and tumbling. (1)
1020. Gymnastics - At the completion of this course, students will be able to display knowledge, competency and proficiency in executing fundamental apparatus and mat skills. (1)
1021. Modern Dance - At the completion of this course, students will be able to display knowledge, competency and proficiency in executing fundamental modern dance movements. (2)
1022. Advanced Modern Dance - At the completion of this course, students will be able to display knowledge, competency and proficiency in advanced modern dance movements. Prerequisite: PHED 2080. (2)
1023. Fundamentals of Swimming - At the completion of this course, students will be able to display knowledge, competency and proficiency in fundamental swimming skills. (1)
1024. Intermediate Swimming - At the completion of this course, students will be able to display knowledge, competency and proficiency in the basic swimming strokes. Prerequisite: PHED 2140 or permission of instructor. (1)
1025. Advanced Swimming- At the completion of this course, students will be able to display knowledge, competency and proficiency in the advanced strokes and lifesaving techniques. Prerequisite: PHED 2145. (1)
1026. Archery and Badminton - At the completion of this course, students will be able to display knowledge, competency and fundamental skill proficiency in archery and badminton. (2)
1027. Beginning Karate - At the completion of this course, students will be able to display knowledge, competency and fundamental skill proficiency in karate. (3)
1028. Intermediate Karate - At the completion of this course, students will be able to display knowledge, competency and fundamental skill proficiency in intermediate karate skills. Prerequisite: PHED 2400. (3)
1029. Advanced Karate - At the completion of this course, students will be able to display knowledge, competency and fundamental skill proficiency in advanced karate skills. Prerequisite: PHED 2400 and PHED 2410. (3)
1030. Major Team Sports - At the completion of this course, students will be able to display knowledge and competencies in coaching techniques and strategies for a variety of major team sports. (2)
1031. Team and Individual Sports - At the completion of this course, students will be able to display knowledge and competencies in coaching techniques and strategies for a variety of team and individual sports. (2)
1032. Advanced Tennis - At the completion of this course, students will be able to display knowledge, competency and proficiency in advanced tennis skills. PHED 1050 or passing score in PHED 0990TE. (2)
1033. Coaching and Officiating Major Team Sports - At the completion of this course, students will be able to display knowledge and competencies in officiating mechanics and techniques for coaching team and individual sports. (3)

## ENGLISH (ENGL)

Prerequisites for English courses:
Completion of a 1000 -level sequence for the 2000-level
Completion of a 2000 -level course for the 3000 -level
Completion of a 2000 -level course and one 3000 -level course for the 4000 -level
All English courses enhance students' skills in writing and critical thinking. In addition, these courses will specifically reinforce the Core Curriculum's objectives of introducing students to the common elements of the human heritage and assisting students to develop a system of values.
0990. Preparatory English - Usually offered fall and spring semesters. A college preparatory English course offered entering students. Includes a laboratory. (3 hours non-degree credit)
1010. English Composition and Rhetoric - Usually offered fall and spring semesters. An introduction to the basic rhetorical modes through intensive practice in grammar, writing short compositions, and a short research paper. (3)
1020. English Composition and Literature- Usually offered fall and spring semesters. A study of the novel, short story, poetry, and drama. Composition based on literature with emphasis on the longer paper. Prerequisite: ENGL 1010. (3)

1023H. Introduction to Literature for Honors Students - Usually offered fall semester. A study of writing and literary genre (the novel, short story, poetry, and drama) for selected students. (3)
2010. Introduction to World Literature I - Usually offered every semester. A critical examination of masterpieces of literature from Ancient Mesopotamia through the Renaissance, including at least one non-Western work. Prerequisite: ENGL 1020. (3)

2011H. Introduction to World Literature - Usually offered spring semester. A critical examination of masterpieces of literature from Ancient Mesopotamia through the Renaissance, including at least one non-Western work, for selected students. Prerequisite: ENGL 1023H (or see discussion of AP credit under Honors in English). (3)

> THE FRESHMAN ENGLISH SEQUENCE (ENGL 1010-1020 OR 1023H2011H) IS A PREREQUISITE FOR ALL COURSES IN ENGLISH NUMBERED 2020 OR ABOVE.
2020. Introduction to World Literature II- Usually offered every semester. A critical examination of masterpieces of Western and non-Western literature from the eighteenth century through the post-modern period. (3)
2070. Survey of British Literature I - Usually offered fall semester. A study of English literature from the Middle Ages through the Restoration and the Eighteenth Century. (3)
2080. Survey of British Literature II - Usually offered spring semester. A study of English literature from 1800 to the present. (3).

2141, 2143. (WRIT 2141, WRIT 2143) Journal Practicum - Usually offered fall and spring semesters. Students gain hands-on experience in publishing. No prerequisite. Permission of the instructor required for 3 hours. Course may be repeated for credit. $(\mathbf{1 , 3})$
2200. Modern English Grammars - This course is designed to give students some theoretical understanding of English syntax as well as the uses of Edited American English. Students will learn to manipulate their use of language at the sentence level for specific purposes and audiences, to edit their own writing confidently, and to analyze written texts. Other outcomes will enable students to understand some learners' difficulty with grammar, to look beyond their surface errors, and to understand the difficulties ESL students have with English grammar. Throughout the course, students will read and analyze student and professional writing. (3)

3001, 3002, 3003, 3004. Special Topics - Some topics considered for this course include Law and Literature, African American Literature, and Post-Colonial Novel. (1, 2, 3,4)
3010. Medieval Literature - A study of the literary developments in English poetry from the Anglo-Saxon period to the Renaissance. (3)
3021. Renaissance Literature - A study of Renaissance prose, poetry and drama (excluding Shakespeare). Also includes Milton. (3)
3040. Shakespeare - Usually offered fall semester. An examination of the comedies and the histories. (3)
3050. Shakespeare - Usually offered spring semester. An examination of the tragedies. (3)
3070. Restoration and Eighteenth Century Literature - A study of the major imaginative literature from 1660 to 1800 . (3)
3125. Twentieth Century Women Writers - A study of literature and feminist theory by women writers from approximately 1900 to the present. (3)
3135. Language: History and Theory - This course is an introduction to linguistic concepts including morphology, syntax, semantics/pragmatics, language history, language acquisition, language and the brain, and language and society. Examples of these concepts will come from the English language: its history, development, and variations. The goal of this course is to orient secondary education pre-service teachers in the different areas and aspects of the English language. Emphasis is on understanding language variety, production, and change. (3)
3150. Advanced Writing - Practice in critical, scholarly, and expository writing, with emphasis on writing within the discipline of English. (3)
3160. Survey of American Literature I- Usually offered fall semester. A study of the literature and backgrounds of American literature from the colonial time through the Civil War. (3)
3170. Survey of American Literature II - Usually offered spring semester. A study of the literature and backgrounds of American literature from the Civil War to the present. Prerequisite: ENGL 3160. (3)
3175. Survey of African Literature- Introduction to African folklore, poetry, fiction, and drama. (3)
3185. Special Topics in African American Literature - Genres studied in this course include drama, poetry, and fiction. Major topics (such as Harlem Renaissance, the Slave Narrative, and Toni Morrison) to be announced. This course may be repeated for credit as often as a different topic is available. (3)
3210. Romantic Literature - A study of Romantic poetry and prose, 1800-1832. (3)
3221. Victorian and Early Twentieth Century Literature - A study of Victorian prose, poetry, and novels. (3)
3233. Teaching Composition and Literature - Study of theories and practice of teaching composition and literature at the secondary and upper elementary levels. Also attention to the necessity and uses of Standard American English, to the integrity of Black English, and to learning styles distinctive of some African Americans. Students will teach in the class, demonstrating language arts lessons of their own design, and evaluate representative samples of younger students' writing. (3)
3270. British Literature from World War I - A study of post-war English poetry, prose, novels, and drama. (3)
3275. The Post-Colonial Novel - Usually offered once a year, usually in the spring. Introduces Post-Colonial theory and novels from 1960 to the present, representing such areas as the Caribbean, Latin America, Africa, the Middle East, India, Asia, and Oceania. (3)
3280. 18th and 19th Century Survey of African American Writers - A study of major texts from the earliest to DuBois in their historical, cultural and literary contexts. (3)
3290. (AFAM 3290) 20th Century Survey of African American Writers - A study of major African American texts of the twentieth century, from the Harlem Renaissance to the contemporary. (3)
3310. Rhetoric, Composition, and the Teaching of Writing - This course is intended to introduce students to the theory and practice of rhetoric and composition with the intent of preparing the students for becoming teachers of writing. Students will be introduced to the history of rhetoric, theories of composition, and current models for teaching writing. Concerns such as Grammar and Writing, Reading and Writing, Dialect and Writing, and ESL and Writing will also be discussed. Students will be required to practice much of the writing theory they are introduced to through journaling, group and individual writing assignments, and assignments for their course portfolios. Students will also create mini-lessons to be practiced in class. Students are also required to perform 15 hours of observations (combined with some instruction opportunities) in middle and/or secondary schools. (3)
3320. Critical Approaches to Teaching Literature - Focusing on the pedagogy of literature in an integrated curriculum, this course will investigate the reading process and different reading models. It will examine different approaches to reading verbal and non-verbal texts and to teaching adult and young adult literature within the context of contemporary literary theory. Students will be required to perform 15 hours of observations (combined with some instruction opportunities) in middle and/or secondary schools. (3)
3400. Literary Criticism and Theory - A study of interpretive strategies and theoretical assumptions of various approaches to literary criticism. (3)

4000H. Directed Studies - Concentrated study of major figures and ideas in a selected period. Open to selected students only. (3)

4010S. British Literature Seminar - Intensive study of major figures and ideas in a selected period of English Literature. Recent topics included Romantic and Victorian literature. (3)

4020S. American Literature Seminar - Intensive study of major figures and ideas in a select period of American Literature. Recent topics included Regionalism in American Literature, and Henry James: Novel into Film. (3)

4030S. Poetry Seminar - An intensive study in American, British, or world literature. Recent topics have included the Women Poets and Modern Poetry. (3)

4040S. Drama Seminar - A concentrated study of British, American, and European drama with emphasis on critical reading and analysis of major works. Topics have included Self Against Society on the Continental Stage, and Contemporary British Drama. (3)

4050S. Comparative Literature Seminar - A critical study of the forms and themes of the major foreign literature in translation. Topics have included The Image of Woman in Nineteenth Century Literature and Reading and Writing the Other (Third and First World Literatures juxtaposed). (3)

4060S. African American Literature Seminar - Intensive study of major figures, periods, and ideas in African American literature. (3)

## ENGINEERING (ENGR)

1061. (PHYS 1061) Modern Engineering Graphics - Usually offered every semester. An introduction to the basic techniques and concepts of engineering drawing including plane and descriptive geometry orthographic, isometric, sectional views auxiliary views, and dimensional representations, and generating 2D and 3D computer designs. One hour of lecture and four hours of drawing and computer laboratory per week. (3)
1062. (PHYS 3020) Mechanics-Dynamics- Usually offered fall semester. Systematic presentation of elements of classical mechanics using language of vector algebra and vector calculus. Topics include kinematics, kinetics, work, energy, impulse, and momentum. Prerequisites: PHYS 2121 and MATH 2080. (3)
2120.(PHYS 3120/CPEN 2210) Network Analysis I - Usually offered spring semester. An introduction to the analysis of linear, time-invariant circuits in response to steady-state and time-varying signals using various analytical tools including Kirchhoff's laws, and Thevenin's and Norton's theorems. Prerequisites: PHYS 2121 and 2630 and MATH 2030 and 2080. (3)
1063. (PHYS 3210) Mechanics-Statics - Usually offered fall semester. Analysis of systems and bodies considering the fundamental concepts of statics, including vectors, two-dimensional and three-dimensional force systems, equilibrium, friction, centroids, and moments of inertia. Prerequisites: PHYS 2121 and MATH 2080. (3)
1064. (PHYS 2630) Analytical Methods for Physics and Engineering - An introduction of methods of mathematical physics used in physics and engineering such as vector and tensor analysis, Fourier analysis techniques, phasors, special functions, variation subject to constraints and elementary renormalization group techniques. The topics are introduced in the context of specific physics and engineering problems in electricity and magnetism, network analysis, modern physics, thermodynamics and mechanics. Prerequisites: PHYS 2121 and MATH 2080. Corequisite: MATH 2530. (3)
1065. (PHYS 3010) Electricity and Magnetism - Usually offered fall semester. A complete development of electromagnetic theory beginning with the fundamental laws of electricity and magnetism, culminating with the development of Maxwell's equations, and ending with a treatment of plane electromagnetic waves. Prerequisites: PHYS 2121, PHYS 2630, MATH 2030, and MATH 2080. (3)
1066. (PHYS 3030) Optics - Usually offered fall semester. Study of theories of geometrical and physical optics, including reflection, refraction, interference, diffraction, polarization, doublerefraction, and lasers. Prerequisites: PHYS 2121 or 2020 and MATH 2070. (3)
1067. (PHYS 3040) Thermodynamics - Usually offered spring semester. Study of heat and temperature, the thermodynamics laws, work, ideal gases, engines, refrigeration, reversibility, entropy, phase transitions. Prerequisites: PHYS 2121, or PHYS 2020 and MATH 2030. (3)

## FINANCE (FINC)

1070.* Personal Finance - Usually offered fall and spring semesters. Basics of budgeting and consumer purchases; evaluation of costs and benefits of housing and transportation; tax planning; comparison of investment and insurance choices; retirement and estate planning. (3)
*May not be used as a Finance concentration elective.
3050. Corporate Finance - Usually offered fall and spring semesters. An introduction to the theories and applications of financial decision-making and effects towards valuation. Topics include time value of money, valuation methodologies, capital budgeting, and forecasting. Prerequisites: ECON 2010 or ECON 2020; ACCT 1020. (3)
3060. International Financial Management - Usually offered fall semester. Study of the management of the financial resources of the multinational firm; focuses on the international business environment and financial decision-making in an international context. Prerequisite: FINC 3050. (3)
3070. Financial Institution Operations and Management - Usually offered fall semester. An examination of the role of commercial banking and other financial intermediaries in the economy with applied analysis of bank operations and management; including bank capital structure, the deposit and lending functions, financial institution portfolio management, and other decisions that affect value to the financial institution. Prerequisite: FINC 3050. (3)
3110. Principles of Real Estate - This course examines the principles of purchasing, owning, and managing real estate. Topics include valuation and financing of commercial, industrial, and residential properties; supply and demand factors influencing real estate; historic properties; and real estate development. (3)
3130. Principles of Insurance - This course presents an overview to principles of risk management and the various fields of insurance, including Life, Health, Property \& Casualty, Automobile, and Social Insurance programs. Prerequisite: FINC 3050. (3)
3160. Advanced Financial Management - Usually offered spring semester. Analysis of decision-making techniques using quantitative tools and computer applications. Students gain insights into financial strategies and decisions using case studies. Topics include financial planning, working capital management, dividend policy, and mergers and acquisitions. Prerequisite: FINC 3050. (3)
3170. Investments - Usually offered spring semester. Students are introduced to securities and capital markets. Topics include principles of risk and return, stock and bond valuation, mutual funds and security analysis. Students gain practical experience to investments through trading simulations. Prerequisite: FINC 3050. (3)
3180. Derivatives and Risk Management - Focuses on the valuation, uses and regulation of derivative instruments (forwards, futures, options, swaps, etc) that are used by corporate managers and individuals investors to control financial risk. Prerequisite: FINC 3050. (3)
4000. Seminar in Portfolio Management - Demonstration of portfolio analysis techniques using computer applications. Additional topics will focus on option pricing, futures markets, technical analysis, and international portfolio management. References for the course will be developed from classical works as well as recent journal articles. Prerequisites: FINC 3050 and 3170. (3)
4999. (BSAD 4999) Senior Comprehensives - (0)

## FRENCH (FREN)

1010-1020. Elementary French - Usually offered fall and spring semesters. An introductory course for students with little or no previous training in French. Emphasis upon the four skills of comprehension, speaking, reading, and writing. Basic vocabulary and grammatical structures appropriate to the development of intermediate-level communication. Present, past, and future tenses, description, basic competency for simple social and work situations. (3-3)

2010-2020. Intermediate French - 2010 usually offered fall semester; 2020 usually offered spring semester. Continuing development of the four skills of comprehension, speaking, reading, and writing. Study of selected texts and cultural materials. Films, computer drills, and audiovisuals required. Prerequisites: FREN 1010-1020 or equivalent as determined by placement exam. (3-3)

3001-3002. Advanced Grammar and Composition - Intensive review of grammar. Emphasis is on verbs, idioms, the subjunctive, and the spoken language. Prerequisites: FREN 2020 or permission of instructor and department chairperson. (3-3)
3010. French Medieval and Renaissance Literature- A survey of literary and cultural documents written in Western Europe, with emphasis upon the literary traditions in Latin and the vernacular. From the Benedictine Rule to the Book of the City of Ladies by Christine de Pisan, students situate texts within their cultural context to understand both the impact of such texts upon the society which produced them and the effect of the social milieu upon literary production. Modern French versions of vernacular texts and translations of Latin works such as the Rule, the poetry of the Goliards, and the Sermon on the Song of Songs of St. Bernard Clairvaux. The influence of the classical period, upon the rise of Renaissance literature. The lyric poets; the Pleiade. This course may be expanded to two semesters by continuing as a directed reading. (3)

3011-3012. Advanced Conversation - Conversation based upon texts, videos, and Webbased sources. Analysis of cultural and some literary texts. Prerequisites: FREN 2010-2020 or permission of instructor and department chairperson. (3-3)
3021. Readings in Francophone Culture - A reading course designed to build advancedlevel skills in comprehension of the text. Readings are taken from throughout the Francophone world. Prerequisites: FREN 2010-2020. (3)
3120. Survey of Seventeenth and Eighteenth Century French Literature - This course is a survey of works by significant authors of the seventeenth and eighteenth centuries in France, with emphasis upon the theatre in the seventeenth century and the Enlightenment philosophes of the eighteenth. Through viewing of films and dramatization in class and from on-line audio sources as well as through more traditional classroom discussions, students will discern the main themes and genres of the best-known works of the two centuries and will situate them in their historical and cultural backgrounds. (3)

4031-4041, 4032-4042, 4033-4043. Directed Readings in French - Readings in an area of French literature mutually agreed upon by teacher and student which is not covered by a current course. Prerequisite: Permission of instructor and department chairperson. (1-1, 2-2, 3-3)
4050. Internship - Placement in a supervised work or research situation using French. Prerequisite: Permission of department chairperson. (3)

4051-4052. Special Topics in French - Critical analysis and exploration of language, culture, or literature. Topics vary according to the needs and interests of department faculty and majors. May be repeated for up to 12 hours of credit. Prerequisites: 6 hours of French beyond French 2020, a rating of Intermediate High on the American Council on the Teaching of Foreign Languages (ACTFL) Oral Proficiency Interview, or permission of the instructor. (3-3)
4999. Senior Comprehensives - (0)

## GEOGRAPHY (GEOG)

1010. World Geography - A survey of patterns found in the natural environment, an examination of human and cultural distribution and their spatial interaction on a global scale. (3)
1011. Physical Geography- Physical, soil, vegetation and climatic regions are outlined along with the processes that produce them. (3)
1012. A Regional Geography of the World - A survey of the geographical characteristics and major problems of each of the continents. Attention is given to important individual countries and to groups of countries within each world region and the major challenges facing the world.. (3)
1013. Louisiana and Its Resources - A comprehensive study of Louisiana's natural and cultural elements and regions. An observation of man's role with regard to nature and the future of Louisiana. (May replace HIST 3040 for Elementary Education Certification.) (3)

## GERMAN (GERM)

1010-1020. Elementary German - Grammar, basic vocabulary, simple conversation, reading, and writing. (3-3)

2010-2020. Intermediate German - Review of grammar and further development of language skills. Emphasis on the reading of scientific literature. (3-3)

4031-4041, 4032-4042, 4033-4043. Directed Readings in German - Readings in an area of German literature mutually agreed upon by teacher and student which is not covered by a current course. Prerequisite: Permission of instructor and department chairperson. (1-1, 2-2, 3-3)
4050. Internship - Placement in a supervised work or research situation using German. Prerequisite: Permission of department chairperson. (3)

## HISTORY (HIST)

1030. World Civilizations to $\mathbf{1 5 0 0}$ - Usually offered fall and spring semesters. Survey of major civilizations of ancient world. Transition to Middle Ages in Africa, Asia, and Europe. (3)

1031H. World Civilizations to 1500 - Usually offered fall semester. Survey of major civilizations of ancient world. Transition to Middle Ages in Africa, Asia, and Europe. For selected honors students. (3)
1040. World Civilizations Since $\mathbf{1 5 0 0}$ - Usually offered fall and spring semesters. Survey of major world civilizations from 1500 to post-war world. Emphasis on development of modern state system, rise of Western dominance and emergence of Third World nations. (3)

1041H. World Civilizations Since 1500 - Usually offered spring semester. Survey of major world civilizations from 1500 to post-war world. Emphasis on development of modern state system, rise of Western dominance and emergence of Third World nations. For selected honors students. (3)
2010. The United States to 1865 - Explores the interaction and development of American society. Economic, political, religious, and cultural institutions from colonial beginnings to Civil War. Examines colonial resistance, revolution, territorial expansion, economic growth, sectionalism, slavery, and the coming of the Civil War. (3)
2020. The United States Since 1865 - Explores development of American society, economy, politics, culture, and diplomacy from Reconstruction to present. Examines Reconstruction, industrialization, imperialism, wars, civil rights movement, and American involvement in the international world. (3)
2050. Survey Topics in History - Survey of a topic or historical period of special interest. (3)
2200. (THEO 2200) Religion and Southern Culture- Examines the historical interaction between religion and culture in the American South from the colonial period to the present, with particular emphasis upon the African American experience. Prerequisite: One 1000-level Theology course. (3)
2250. (THEO 2250) Religions of the Ancient Near East - Examines religion in ancient Egypt, Mesopotamia, Syria, and Israel/Canaan through reading ancient Near Eastern religious texts, viewing religious iconography, and examining religious architecture and cultic implements. The course will explore these ancient societies' answers to such questions as the nature of the divine, the relationship between the divine and humans (including all classes of society), creation, problems of theodicy, and their notions of afterlife. Prerequisite: One 1000-level Theology course. (3)
2415. Introduction to Historical Research and Writing - Usually offered in the fall semester. Introduction to methods, techniques and concepts used by historians. Main emphasis on methods of historical research and analysis, problems confronting historians in dealing with evidence, interpretation, and theory in various chronological and geographic settings. Readings, discussion and research paper using primary sources are required. Prerequisites: HIST 1030, 1040, and ENGL 1020. (3)

## 3000.Special Topics in History- Topics selected for special interests of students. (3)

3001. History of American Law - This course acquaints students with the historical context of the origins of American law, its evolution, and its application to human relationships and societal interactions. In particular, attempts will be made to analyze the pattern of American constitutional development and its relevance to the composition of our socio-economic and political structure. (3)
3002. Women in International Contexts - A comparative exploration of women's history during the late nineteenth and early twentieth centuries. The course focuses in the similarities and differences between the experiences of women in different parts of the world, with a particular emphasis on personal narratives. (3)

3011 Twentieth Century European History - Focuses on major developments in twentieth century European history, including social, and political history, World War I, Russian Revolution, rise of totalitarian dictatorships, World War II, the Cold War, decolonization, collapse of Communism and rise of the European Community. Prerequisite: HIST 1040. (3)

3020 History Internship - Hands on experience at an historical facility or with departmental oral history or research projects. Requires one hundred hours of work under supervision, a record of work experiences and a written analysis of the overall internship. Grades are on pass/fail basis. Prerequisites: HIST 1030, 1040, successful completion of the computer competency exam and demonstrated typing competency for oral history interns. (3)
3040. History of Louisiana - Examines and interprets the Latin colonial roots of Louisiana, the challenge of Louisiana for the young Republic of the U.S., immigration and the antebellum experience, the crises of the Civil War and Reconstruction, impact of Longism, the petrochemical revolution and contemporary Louisiana. (3)
3050. (AFAM 3050) Gandhi and King: Nonviolent Philosophy of Conflict Resolution -

This course examines the similarities and differences between Mahatma Gandhi and Martin Luther King, Jr. -- their leadership styles, personality traits, philosophical assumptions, the movements they led, and their tactics in particular campaigns. (3)
3350. (AFAM 3350) African American History I - Chronological and in-depth study of specific issues affecting African Americans from their West African beginnings to Civil War. Major themes to be announced each semester. (3)
3360. (AFAM 3360) African American History II- Continuation of topical survey of main currents in African American life from the Civil War to the present. Major themes to be announced each semester. (3)
3370. Civil War and Reconstruction- Deals with the crises and complexities involved in the Civil War and Reconstruction. Explores background of the war and issues of the post-war era. Also examines consensus and conflict over reunion and reconstruction. (3)
3380. United States History Since 1945 - Examines U.S. history from the end of World War II to the present. Emphasis is placed on politics, foreign policy, the modern civil rights movement, and the primary social and cultural events of the period. Prerequisite: HIST 1040. (3)
3385. The Civil Rights Movement in the United States - Examines the major civil rights campaigns that took place throughout the U.S. from 1950 to1975. Focuses on strategies, objectives, successes and failures of civil rights leaders and organizations. Special emphasis on civil rights protests and movements in New Orleans and throughout Louisiana. (3)
3390. African American Women's History - Examines the unique historical experiences of women of African descent in the United States from the colonial era to the present. Focuses on black women's contributions to American society and the impact of race, class and gender issues on the experiences of African American women. (3)
3670. History of Africa- Introduction to major themes, narratives, geographies and chronologies of African history from its earliest period to the present, and the ways this history has been recorded by Africans and non-Africans. Topics vary from term to term, with an emphasis on the skills of historical thinking, analysis of evidence and critical thinking and writing. (3)

4020S. Seminar in the Developing World- In-depth study of a particular region, nation, historical period or topic of the Developing World. (3)

4030S. Seminar in American History - In-depth study of a particular region, nation, historical period or topic in American History. (3)

4040S. Seminar in European History - In-depth study of a particular region, nation, historical period or topic in European History. (3)
4150. Ancient Mediterranean- Explores the main historical developments of Mediterranean civilizations from their origins in the Bronze Age (ca. 2000 B.C.) through the decline of imperial Rome (ca. 400). Considers the mutual influence of civilizations of the Mediterranean littoral, cultural and political developments of Greece and Rome, and the rise of Christianity. Prerequisite: HIST 1030. (3)
4170. Medieval Europe to $\mathbf{1 3}^{\text {th }}$ Century - Focused study of selected historical themes from late antiquity to the high Middle Ages. Topics include the evolving synthesis of Germanic, Christian, and late Roman cultures; ethnogenesis in Europe from the fifth through the tenth centuries; the cult of the saints in the early Middle Ages; the ideology of sacral kingship; church reform, the Investiture Controversy, and the medieval papacy; Jews in medieval Europe; and the transformation of the medieval state from a network of personal ties to a system of government rooted in royal bureaucracy and administration. Prerequisite: HIST 1030. (3)

4420S. World Wars and Dictatorships in European History Seminar - Causes and consequences of World War I. The inter-war years. Rise of communist and fascist dictatorships. World War II. Prerequisite: HIST 1040. (3)

4430S. Revolutions in Modern History- A study of major revolutions which have shaped the modern world. Causes, intellectual foundations, and consequences. Selected from among American, French, Russian, Chinese and Latin American Revolutions. Prerequisite: HIST 1040. (3)

4415S. Seminar in Historical Research - A practical introduction to investigative training in historical research and historiography. Emphasis is placed on such research techniques and principles as topic selection and location, analysis, and verification of data. A substantial research project is required. (3)

4501, 4502, 4503. Directed Readings in History - Readings in an area of history mutually agreed upon by instructor and student which is not covered by a current course. Prerequisite: Consent of instructor and department chairperson. (1, 2, 3)

## 4999. Senior Comprehensives - (0)

## HONORS (HNRS)

ENGL 1023H.Introduction to Literature for Honors Students - A study of writing and literary genre for selected students who will take one English 3000-level course rather than ENGL 1010. (3)

ENGL 2011H.Introduction to World Literature - A critical examination of masterpieces of Western and non-Western literature for selected students. (3)

ENGL 4000H.Directed Studies - Concentrated study of major figures and ideas in a selected period. Open to selected students only. (3)

HIST 1031H. World Civilizations to $\mathbf{1 5 0 0}$ - Usually offered fall semester. Survey of major civilizations of ancient world. Transition to Middle Ages in Africa, Asia, and Europe. Requires written tutorial essays. For selected honors students. (3)

HIST 1041H. World Civilizations Since 1500 - Usually offered spring semester. Survey of major world civilizations from 1500 to post-war world. Emphasis on development of modern state system, rise of Western dominance and emergence of Third World nations. Requires written tutorial essays. For selected honors students. (3)

MATH 1070H. Introductory Calculus - Usually offered fall semester. Open to selected students only. Students must complete all work in MATH 1070 concurrently and participate in 10 additional meetings in the semester. Prerequisite: Grade of "A" in MATH 1030 or advanced placement by test score or permission of chairperson. (4)

MATH 2070 H. Calculus II- Usually offered spring semester. Open to selected students only. Students must complete all work in MATH 1070 concurrently and participate in 10 additional meetings in the semester. Prerequisite: Grade of "A" in MATH 1070 or advanced placement by test score or permission of chairperson. (4)

SPCM 1011H.Fundamentals of Public Speaking- This course is a performance-based honors course that requires students to present several speeches. Major emphases are placed on preparation, organization, delivery, and the development of confidence and pride. Students will also participate in a service learning project within the New Orleans community. Prerequisite: Placement by test score, high school GPA, and previous coursework or permission of chairperson and eligible for ENGL 1010. (3)

## INTEGRATED PHYSICAL SCIENCE (IPSC)

2010. Integrated Physical Science- Usually offered fall semester. Introduction to the basic concepts and principles of physics, chemistry, and atomic structure. Includes one laboratory session per week. (3)
2011. Earth Science - Usually offered spring semester. Survey of sciences related to our planet dealing with principles of astronomy, geology, meteorology, and environmental sciences. Includes one laboratory session per week. (3)
2012. Advanced Earth Science - Follows guidelines specified by the Global Learning and Observations to Benefit the Environment (GLOBE) Program to obtain certification to teach the GLOBE Program, which is a hands-on, experiential science program for grades K-12. Contents of the GLOBE Program will be related to the National Science Standards and the State Science Benchmarks. Four major areas are covered: atmosphere/climate, hydrology, soils, and land cover/biology. Prerequisites for Elementary Education majors: IPSC 2010 and IPSC 2020. (3)

## JAPANESE (JAPN)

1010-1020. Elementary Japanese - Grammar, basic vocabulary, simple conversation, reading, and writing. (3-3)
4050. Internship - Placement in a supervised work or research situation involving Japanese. Permission of department chair. (3)

## LANGUAGE (LANG)

4053. Introduction to Literary Criticism of Spanish, Hispanic, American, French, and Francophone Literature - This course is a capstone course designed for the upper-level students majoring in either French or Spanish. Through readings of both critical texts and literary works, students develop a comprehension of the relationships among history, culture, ideology, and literary production. Students read the literary works under study in their target languages. Discussion is in English in order to accommodate majors from both languages. (3)
4054. Foreign Language Teaching Methodology - An examination of conventional methodologies of teaching foreign languages. This presentation will be directed to both primary and secondary levels and will include the following topics, among others: analysis of the theoretical premises upon which each method is founded; critical assessment of the strengths and limitations of each method; demonstration of classroom techniques derived from the various methods; discussion of the proficiency orientation contained in each method; and analysis of current textbooks and materials with discussion of how they reflect the theories under study. The practical component of the course will be integrated through demonstrations of teaching techniques, peer teaching, class observations, and hands-on activities. (3)

## LATIN (LATN)

1010-1020. Elementary Latin - Grammar, basic vocabulary, graded readings. (3-3)
2010-2020. Intermediate Latin - Review of grammar and additional reading. Selections from ancient authors. (3-3)

## MASS COMMUNICATION (MSCM)

1100. Introduction to Mass Communication - Usually offered fall and spring semesters. Examination of the structure, functions, and theories of mass media in contemporary society. Students are familiarized with the social, economic, and political aspects of the radio, television, book, newspaper, public relations, magazine, film, and record industries. (3)
1101. Principles of Visual Media - Usually offered fall and spring semesters. Students learn how to tell stories through the basic principles of still photography, video and audio production, print design, graphics, and layout. (3)

2007, 3007, 4007. Public Relations Practicum - Students will gain hands-on public relations experience by working on the departmental newsletter, The Communicator, or other appropriate publication or public relations campaign, such as for a non-profit organization or community group. (Note: Not more that 3 hours of newspaper/broadcast/public relations practicum may be taken.) Prerequisite: MSCM 2222. (1, 1, 1)

2008, 3008, 4008. Newspaper Practicum - Usually offered fall and spring semesters. Students will gain hands-on journalism experience by completing stories for the Xavier Herald. Permission of the instructor is required for enrolling in this course. (Note: Not more that 3 hours of newspaper/broadcast/public relations practicum may be taken.) Prerequisite: MSCM 2222. (1, 1, 1)

2009, 3009, 4009. Broadcast Practicum - Usually offered fall and spring semesters. A course for students working on the production of student television programs for air on XTV. Students will get practical experience to reinforce classroom learning while serving on the crew or as hosts, writers, producers, or directors for these university programs. (Note: Not more that 3 hours of newspaper/broadcast/public relations practicum may be taken.) Prerequisite: MSCM 1200. (1, 1, 1)
2030. Principles of Public Relations - Examination of the theory of public relations and its relationship to work in the field as practiced by professionals. The course will provide students with a solid foundation in the practice of public relations. (3)
2222. Writing for the Print Media - Usually offered fall and spring semesters. Basic writing, rewriting, and editing of newspaper stories. Processes and procedures of information gathering including interviewing and investigative techniques. Prerequisite: ENGL 1010 and 1020. (3)
2500. Writing for Radio and Television - Usually offered fall and spring semesters. Basic script-writing from commercials to news and drama. Prerequisite: ENGL 1010 and 1020. (3)
2530. Fundamentals of Audio Production - Orientation to capabilities and use of radio studio. Introduction to production of radio program type. Introduction to basic acoustics, radio board operation, commercial and dramatic production. (3)
2580. Appreciation and History of Film - Film as art, industry and as social and cultural force. Emphasis on aesthetic appreciation, major historical developments, and impact of film on American culture. Course includes screening and analysis of several films. Meets core curriculum requirement for Fine Arts. (3)
2950. Radio and Television Announcing- Theory and practice in on-air presence and in the use of the microphone with specific attention toward developing individual abilities in the announcing roles used in the electronic media. Scripted and unscripted delivery in a variety of broadcast situations will be emphasized. (3)
3060. Writing for Public Relations - Comprehensive survey of writing techniques for public relations and public affairs assignments: news releases, brochures, speeches, visual presentations, company publications, public relations and advertising copy writing and public service radio and television spots. Prerequisite: MSCM 2222 and MSCM 2030. (3)
3101. Media Management- Usually offered spring semester. Study of the media company (commercial and public broadcasting, newspapers, and magazines) as a business; its management. Includes study of program formats and programming decisions. (3)
3150. News Editing - Editorial functions of the print media; copy editing, headline writing, management of photographs, and general editorial decision making. Prerequisite: MSCM 2222. (3)
3190. Fundamentals of Television Production - Orientation to basic television studio and field production skills including writing, producing, directing, and production crew responsibilities and technical skills. Students learn to blend theory and practice by producing and directing their own television programs. Two hours of lecture and two hours of lab per week. Prerequisites: MSCM 2500 or may be taken concurrently with permission of the instructor. (3)
3210. TV News Gathering and Reporting- Usually offered spring semester. Advanced reporting, interviewing, writing, and photography techniques for television news. Prerequisite: MSCM 3190. (3)
3211. Editorial Practicum - This course is for students holding editorial positions on the Xavier Herald. Students will be responsible for writing, editing and all other aspects of production of the Herald. Permission of the instructor is required. (3)
3250. News Reporting - Advanced reporting, interviewing, and writing techniques for the print media. Prerequisites: MSCM 2222. (3)
3400. Desktop Publishing - Computer layout and design for newspapers, brochures, newsletters and other publications pertaining to print journalism and public relations using QuarkXPress and PhotoShop. Students will work on practical projects, such as the students newspaper, a departmental newsletter and/or a business/organization media kit. Prerequisites: MSCM 1200. (3)
3500. Media Criticism - Development and application of criteria for evaluating media products. Critical analysis of specific programs and articles. Students will present both oral and written critiques of media content and techniques. (3)
3600. Introduction to Mass Communication Research- Treatment of mass communication theory and processes in quantitative and qualitative research methodologies. Course includes analysis of complete research projects. Students are provided the opportunity to design and complete basic research projects. (3)
3650. Advanced Topics in Production - Hands-on experience as part of a professional team. Course aids in the development of practical skills important in print or non-print media. Topic to be determined by instructor. Prerequisites: MSCM 2222 or MSCM 2500 and permission of the instructor. (3)
3831. History of American Mass Media - Usually offered fall semester. Survey of cultural history of journalism from pre-colonial times to the present. Special examination of Black journalism history and impact of electronic technologies. (3)
4000. Feature Writing for Newspapers and Magazines - Interviewing, reporting, and writing skills for writing newspaper and magazine feature stories. Prerequisite: MSCM 2222. (3)
4010. Producing Television Newscasts - Through hands-on experience, students learn to write, format and produce television newscasts. Students are expected to make critical decisions regarding newscast content, treatment and journalistic integrity while creating highly attractive and promotable newscasts under deadline. Prerequisites: MSCM 2500, 3210, and 3190, but MSCM 3210 may be taken concurrently with permission of the instructor. (3)
4020. TV Program Production - Through practical exercises and hands-on experience, students learn the process of producing fictional television programs. Students are expected to take a one-half-hour television program idea (sitcom, drama, soap opera) from concept to final shooting schedule. This class emphasizes the business, management and marketing aspects of producing television programs as well as advanced production techniques required of fictional television both on location and in the studio. Prerequisites: MSCM 2500, 3210, and 3190, but MSCM 3210 may be taken concurrently with permission of the instructor. (3)
4060. Public Relations Campaigns - Study of cases in public relations. Features an indepth workplace style experience in research, production, application and evaluation of a campaign. Prepares upper level students for professional collaborative working in agencies or organizations. Prerequisites: MSCM 2222, 2030, and 3060. (3)

4131, 4132, 4133. Independent Study - Opportunity for in-depth study or research in an area of interest in mass communications. Area of study to be determined by student in consultation with supervising instructor. Prerequisite: Permission of instructor. (1, 2, 3)
4200. Integrated Communications for Public Relations - The distinction between public relations, marketing and advertising are converging into the growing emphasis of integrated communications. Integrated Communications in Public Relations (ICPR) is a strategy employed by communications professionals to coordinate and combine messages in order to maximize their impact and promote products, causes or ideas. This course offers an exploratory introduction into integrated communications, highlighting the core disciplines of public relations, advertising, and marketing. The ICPR model is based in the strategic management of organizational communication and promotional opportunities. Prerequisites: MSCM 2222, MSCM 2030, and permission of the instructor. (3)
4400. Environmental Communications- Explores contemporary ecological issues and approaches. Stress on in-depth research and reporting on local environmental problems. (3)
4410. Internship - Usually offered fall and spring semesters, and summer. Hands-on experience provided to students at a communications facility. Professional training experience furnished in media organization, operation, and team effort. Prerequisites: Junior or senior status with minimum of 18 hours of MSCM courses or permission of instructor. (3)
4430. Media Law and Ethics- Review of landmark cases in media law, especially First Amendment issues. Case studies of ethical theory and problems in communication practice. (3)
4520. Seminar in Mass Communication - In-depth study through lecture, discussion, and research of an individual problem or issue in the field of mass communication. Specific subject matter will be chosen by instructor. Prerequisite: Permission of instructor. (3)

## 4999. Senior Comprehensives - (0)

## MATHEMATICS (MATH)

0960D. Pre-Algebra Review - Usually offered fall and spring semesters. Review of single operations on integers, fractions and decimals; exponentials; simple factorizations; linear equations; geometric problems involving area and perimeter of basic figures. This course may be required for those students whose math score on the SAT or ACT or the Xavier Mathematics Placement Test is below the acceptable level. Upon completion, the student must enroll in and MATH 0981D. (Non-Degree Credit) (3)

0981D. Algebra Review - Usually offered fall and spring semesters. Review of high school algebra. Operations with algebraic expressions and fractions; factoring; exponentials and radicals; solving equations and inequalities; graphing; basic analytic geometry. This courses may be required for those students whose math score on the SAT or ACT or the Xavier Mathematics Placement Test is below the acceptable level. Also, students placed in MATH 0960D must complete that course before entering this course. (Non-Degree Credit) (4)
1010. Principles of Modern Mathematics - Usually offered fall and spring semesters. Survey of mathematics: topics in college algebra for non-technical majors. Prerequisite: Completion of all developmental mathematics deficiencies. (3)
1015. College Algebra for Elementary Education Majors - Usually offered every semester. Algebra of elementary functions and relations to their graphs. Applications and the use of technology are incorporated in this course. Prerequisite: Completion of all developmental mathematics deficiencies. (3)
1020.* (STAT 2010-Statistical Methods I) Basic Statistics I - Usually offered fall and spring semesters. Descriptive statistics, probability and statistical inference. Prerequisite: Completion of all developmental mathematics deficiencies. (3)
*Students may not receive credit for both MATH 2010 ( STAT 1020) and ECON 2070.
1030. Pre-Calculus - Usually offered fall and spring semesters. Unified college algebra and trigonometry. Elementary functions and relations with their graphs. Prerequisite: Completion of all developmental mathematics deficiencies. (4)
1070. Introductory Calculus - Usually offered fall and spring semesters. The derivative and integral with their principal interpretations and interrelationships; simple techniques of differentiation and integration; numerical integration; applications of differentiation and integration. The use of technology is integrated in this course. Prerequisite: Grade of "C" or better in MATH 1030 or advanced placement by test score or permission of chairperson. (4)

1070H. Introductory Calculus - Usually offered fall semester. Open to selected students only. Students must complete all work in MATH 1070 concurrently and participate in 10 additional meetings in the semester. Prerequisite: Grade of "A" in MATH 1030 or advanced placement by test score or permission of chairperson. (4)
2015. Geometry for Elementary Education Majors - Understanding and applying geometric relationships and problem solving in two and three dimensions. Prerequisite: Grade of "C" or better in MATH 1015. (3)
2025. Finite Mathematics for Elementary Education Majors- Elementary sets and operations, introduction to combinatorics, elementary graph theory, solving systems of linear equations, introduction to matrices, linear programming, and applications. Prerequisite: Grade of "C" or better in MATH 1015. (3)
2030. Elementary Linear Algebra - Usually offered fall and spring semesters. Systems of equations, matrices, determinants, vector spaces, eigenvalues, linear mappings, etc. Corequisite: MATH 1070. Prerequisite: Grade of "C" or better in MATH 1030. (3)
2040. (STAT 2020) Statistical Methods II) Basic Statistics II - Usually offered spring semester. Hypothesis testing of population means, proportions, etc. Contingency tables, goodness-of-fit, analysis of variance, nonparametric statistics. Introduction of computer packages to analyze data. Prerequisite: Grade of "C" or better in MATH 1020 (or STAT 2010) or ECON 2070. (3)
2070. Calculus II- Usually offered fall and spring semesters. Continuation of techniques of integration; applications; improper integrals; infinite series. Topics in analytic geometry; polar coordinates and parametric equations. The use of technology is integrated in this course. Prerequisite: Grade of "C" or better in MATH 1070. (4)

2070H. Calculus II- Usually offered spring semester. Open to selected students only. Students must complete all work in MATH 2070 concurrently and participate in 10 additional meetings in the semester. Prerequisite: Grade of "A" in MATH 1070 or advanced placement by test score or permission of chairperson. (4)
2080. Calculus III - Usually offered fall and spring semesters. Geometry of three dimensions; real-valued functions of several variables; partial differentiation; multiple integration. Vector analysis; line integrals and surface integrals. The use of technology is integrated in this course. Prerequisite: Grade of "C" or better in MATH 2070. (4)

2150L.(STAT 2150L) Statistics Technology Lab - Usually offered spring semester. Problem-solving in statistics using appropriate statistical software. Prerequisite: Grade of "C" or better in STAT 2010 (MATH 1020) or ECON 2070. (1)

2160L.Mathematics Technology Lab - Usually offered spring semester. Solution of complex mathematical problems using appropriate computer software. Prerequisite: Grade of "C" or better in MATH 1070 (1)
2530. Differential Equations - Usually offered fall and spring semesters. Usual methods of solving ordinary differential equations; introduction to the general theory. Prerequisite: Grade of "C" or better in MATH 2070. (3)
2550. Discrete Structures for Computer Science and Mathematics I - Usually offered fall and spring semesters. Topics in combinatorics and graph theory; permutations and combinations, graphs and trees, recurrence relations, applications of combinatorics to discrete probability. Prerequisite: Grade of "C" or better in PHIL 2040 and MATH 1070. (3)
2560. Discrete Structures for Computer Science and Mathematics II - Usually offered fall and spring semesters. Foundational topics of mathematical structures with applications in computer science: logical foundations and induction, sets, relations, recurrence relations, functions, introduction to algebraic structures. Prerequisite: Grade of "C" or better in MATH 2550. (3)
3010. (STAT 3010) Biostatistics - Applications of descriptive and inferential statistics to health science disciplines. Introduction of specialized techniques used in biomedical sciences. Prerequisites: Grade "C" or better in STAT 2020 or MATH 2040 or ECON 2070 or permission of the instructor. (3)
3040. (CPSC 3040) Numerical Analysis - Methods of numerical computation. Error analysis, solutions of equations, interpolation and polynomial approximation, least squares approximation, numerical differentiation and integration, numerical solution to differential equations.. Corequisite: MATH 2530. Prerequisites: Grade of "C" or better in MATH 2080 and working knowledge of some programming language (3)
3051. (STAT 3051) Mathematical Probability and Statistics I- Usually offered fall semester. Introduction to concepts of probability and random variables. Discrete and continuous distributions with applications. Algebra of expectations. Covariance and correlation of two random variables. Prerequisite: Grade of "C" or better in MATH 2550 or permission of the instructor. Corequisite: MATH 2080. (3)
3061. (STAT 3061) Mathematical Probability and Statistics II - Usually offered spring semester. Purpose and nature of sampling, particularly from normal populations. Chi-square, t , and F distributions. Formulating and testing statistical hypotheses, point and interval estimation. Prerequisite: Grade of "C" or better in MATH 3051 (or STAT 3051). (3)
3110. Applied Mathematics - Usually offered spring semester. Applications of different topics in mathematics with emphasis on modeling techniques. Prerequisites: Grade of "C" or better in MATH 2030 or permission of the instructor. (3)
3750. Complex Variables and Applications - Usually offered every other spring semester. Theory and application of complex numbers, complex mappings, analytic and holomorphic functions. Prerequisite: MATH 2080 with a grade of "C" or better. (3)
4001. Mathematical Problem Solving I- Usually offered fall and spring semesters. Helps students develop strategies and abilities for solving complex mathematical problems. Focus is on problems not covered in ordinary course work from a variety of areas in mathematics with emphasis on differential and integral calculus, differential equations, and their applications. Places strong emphasis on critical reasoning, synthesis, and clarity of written expressions. Prerequisite: Grade of "C" or better in each of MATH 2080 and MATH 2530. (1)
4002. Mathematical Problem Solving II - Usually offered fall and spring semesters. Helps students develop strategies and abilities for solving complex mathematical problems. Focus is on problems not covered in ordinary course work from a variety of areas in mathematics with emphasis on discrete mathematics, linear algebra, abstract algebra, and their applications. Places strong emphasis on critical reasoning, synthesis, and clarity of written expressions. Prerequisite: Grade of "C" or better in MATH 2030, MATH 2550 and MATH 2560. (1)
4010. Modern Geometry- Elementary foundations of geometry from a rigorous point of view, concepts in advanced Euclidean, projective, and non-Euclidean geometry. Prerequisites: Grade of "C" or better in MATH 2070 and MATH 2560 or permission of instructor. (3)
4030. History of Mathematics - A general survey of the main trends in the development of mathematics from ancient times to the present. The cultural and social contexts of mathematical activity will be studied along with the classic problems. Intensive reading required. Prerequisites: Grade of "C" or better in MATH 2080 and MATH 4010. (3)
4050. Advanced Calculus I - Usually offered fall semester. Real number system; Sequences -- their limit, Bolzano-Weistrass Theorem; Limits of functions; Continuous functions, uniform continuity. Prerequisites: Grade of "C" or better in MATH 2080 and MATH 2560 or permission of instructor. (3)
4060. Advanced Calculus II - Usually offered spring semester. Differentiation, RiemannStieltjes integration; Sequences of functions -- uniform convergence, Infinite series. Prerequisites: Grade of "C" or better in MATH 4050 or permission of instructor. (3)
4070. Introduction to Topology - Usually offered every other spring semester. Topology of the line and plane; abstract topological spaces; continuous functions on topological spaces; metric and normed spaces; separation axioms; compactness; product spaces. Prerequisite: MATH 4050 with a grade of " C " or better or permission of the instructor. (3)

4095/4095D. Abstract Algebra/Abstract Algebra Drill - A study of algebraic structures, focusing on groups and rings, including normal subgroups, quotient groups, permutation groups, cyclic groups, quotient rings, integral domains, elementary ideal theory and homomorphisms. Introduction to field theory. MATH 4095 has three lectures per week and MATH 4095D meets once per week. Prerequisites: MATH 2560 or permission of the instructor. Corequisite: MATH 4095D. (3/0)

4201, 4202, 4203. Special Topics - Topics may vary from semester to semester. May be repeated for credit when the topic changes. Prerequisites: Permission of the instructor. (1, 2, 3)

4511-4521. (STAT 4511-4521) Colloquium- Usually offered fall and spring semesters. Topic determined each semester by faculty. Independent work by students under the guidance of a faculty member to be presented orally and in writing to student majors and faculty. Meets once per week. Prerequisites: A grade of "C" or better in all MATH or STAT required courses at the $2000-$ level and junior or senior status. 4511 is prerequisite to 4521 . (1-1)
4999. Senior Comprehensives - (0)

## MILITARY SCIENCE (MLSC)

## General Military Courses

1011/1011L. Dynamics of Leadership I - Usually offered fall semester. An introductory course on the history and organization of Army ROTC and an initial study of leadership traits, principles, and characteristics. The student is introduced to the characteristics and capabilities of individual and crew-served weapons such as the $\mathrm{M}-16$ rifle and the $\mathrm{M}-60$ machine gun. The student is further oriented to the customs and courtesies of the military service and is given a brief overview of the present pay system, service benefits, the national defense structure, and the basic organization and functions of a military squad and platoon. Course includes periodic field trips. Two hours of lecture and one hour of leadership laboratory per week. (2/0)

1021/1021L. Dynamics of Leadership II - Usually offered spring semester. A continuation of leadership training to include: Weapons training (assembly and disassembly procedures for the M-16 rifle and M-60 machine gun), communications (radio-telephone procedures, use of a CEOI) first aid (bleeding, shock, burns, fractures, CPR), and training in NBC (nuclear, biological, chemical) topics. Course includes frequent field trips. Two hours of lecture and one hour of leadership laboratory per week. Prerequisite: MLSC 1011 or permission of department chairperson.. (2/0)

2010/2010L. Applied Leadership- Usually offered fall semester. Introduction to military map reading (grid coordinates, elevation, relief, distance, polar coordinates, intersection and resection). Preliminary marksmanship instruction including mechanical training (assembly and disassembly, operation and functioning, care and cleaning, stoppage, immediate action, remedial action, malfunctions) and marksmanship fundamentals (aiming, steady hold factors, firing positions). Course includes training in physical conditioning and periodic field trips. Two hours of lecture and one hour of leadership laboratory per week. Prerequisite: MLSC 1021 or permission of the department chairperson. (2/0)

2021/2021L. Management Techniques- Usually offered spring semester. Introduction to management principles and techniques. Includes a discussion of leadership principles and application of leadership techniques. Course concludes with an introduction to military correspondence, discussion of customs and traditions, and Ranger challenge skills such as knottying and rope bridge. Course includes training and physical conditioning and periodic field trips. Two hours of lecture and one hour of leadership laboratory per week. Prerequisite: MLSC 2011 or permission of the department chairperson. (2/0)

## Professional Officer Courses

3010/3010L. Basic Tactics - Usually offered fall semester. Introduction to US Army tactical concepts and procedures, principles and evolution of war, and the relationship between weapons and tactics. Includes a comparative study of US and USSR organizations, advanced map reading and terrain association, operation orders format, and concludes with a study of offensive operations (movement techniques/formations, control measure, conduct of the offense, and offensive operation order exercise). Course includes training in physical conditioning and periodic field trips. Three hours of lecture and one hour of leadership laboratory per week. Prerequisite: MLSC 2021 or permission of the department chairperson. (3/0)

3020/3020L. Advanced Tactics - Usually offered spring semester. Continuation of the study of US Army tactical concepts. The course begins with a study of defense operations (range cards and sector sketches, retrograde operations) and continues with patrolling techniques, low intensity conflict, call for fire. Concludes with an overview of advanced camp (communication procedure, physical training program, practical application of drill and ceremonies, review of tactics, and explanation of the tactical application exercise). Course includes training in physical conditioning and periodic field trips. Three hours of lecture and one hour of leadership laboratory per week. Prerequisite: MLSC 3011 or permission of the department chairperson. (3/0)

4001/4001L. Ethics of Leadership - Usually offered fall semester. First part of the Capstone course leading to commissioning in the US Army. Course includes a study of military ethics and professionalism (introduction to the profession of arms, basic understanding of the professional soldier's responsibilities to the Army and the decision making skills). Course concludes with cadet presentation of professional knowledge subjects (conduct briefings, military correspondence, information/decision paper, after-action report, counseling techniques, intelligence and combat information, post and installation support). Course includes training in physical conditioning and periodic field trips. Two hours of lecture and one hour of leadership laboratory per week. Prerequisite: MLSC 3021 or permission of the department chairperson. (2/0)

4021S/4021L. Professionalism of Leadership- Usually offered spring semester. Conclusion of the Capstone course. Emphasis is on command and staff functions, planning and preparation of training, logistics, and personnel management. Course concludes with the study of military justice and the law of war. Course includes training in physical conditioning and periodic field trips. Two hours of lecture and one hour of leadership laboratory per week. Prerequisite: MLSC 4011 or permission of the department chairperson. (2/0)

4102, 4202. Independent Study - Prerequisite: Open only to those students who have completed Military Science requirements and who have extended scholarship benefits. Approval of the department chairperson is required. (2)

## MUSIC (MURE, MUAP, MUEN, MUME, MUSH, MUSM, MUST)

## Private Instruction Applied Music (MUAP)

Students should confer with the Music Department chairman on registration day for assignment to an instructor. In so far as possible, the student's choice of a teacher will be respected. (Courses carry instrument suffix.)

1834xx-1844xx Private music instruction.
$\mathbf{2 8 3 4 x x} \mathbf{- 2 8 4 4 x x}$ Two one-hour lessons and a minimum of 20 hours practice per
3834xx-3844xx week. (4-4)
4834xx-4844xx
1733xx-1743xx Private music instruction.
$\mathbf{2 7 3 3 x x}-2743 \times x$ One one-hour lesson and a minimum of 15 hours practice per
3733xx-3743xx week. (3-3)
4733xx-4743xx
$1632 \times x-1642 \times x$ Private music instruction.
$2632 \times x-2642 \times x$ One one-hour lesson and a minimum of 10 hours practice per
3632xx-3642xx week. (2-2)
4632xx-4642xx
1531xx-1541xx Private music instruction.
2531xx-2541xx One half-hour lesson and a minimum of 6 hours practice per
3531xx-3541xx week. (1-1)
4531xx-4541xx

## Vocal and Instrumental Ensembles (MUEN)

1010U-1020U, 2010U-2020U, 3010U-3020U, 4010U-4020U. University Chorus - Open to all members of the University community, except music majors. No audition necessary. (2 each for non-music majors only)

1310U-1320U, 2310U-2320U, 3310U-3320U, 4310U-4320U. University Chorus - Open to all members of the University community. No audition necessary. (1 each)

1030C-1040C, 2030C-2040C, 3030C-3040C, 4030C-4040C. Concert Choir - Membership limited by audition. Not open to music majors. (2 each for non-music majors only)

1330C-1340C, 2330C-2340C, 3330C-3340C, 4330C-4340C.Concert Choir - Membership limited by audition. (1 each)

1010S-1020S, 2010S-2020S, 3010S-3020S, 4010S-4020S. Symphonic Band - Open to all students of the University community, except music majors. (2 each for non-music majors only)

1910S-1920S, 2910S-2920S, 3910S-3920S, 4910S-4920S. Symphonic Band - Open to all students of the University community. (1 each)

1051J-1061J, 2051J-2061J, 3051J-3061J, 4051J-4061J. Jazz Laboratory Band- Study and performance of modern jazz literature. Not open to music majors. (2 each for non-music majors only)

1951J-1961J, 2951J-2961J, 3951J-3961J, 4951J-4961J. Jazz Laboratory Band- Study and performance of modern jazz literature. (1 each)

1351O, 1352O, 1353O-1361O, 1362O, 1363O;
23510, 2352O, 2353O-2361O, 2362O, 2363O;
33510, 3352O, 33530-3361O, 3362O, 3363O;
43510, 4352O, 43530-43610, 4362O, 4363O. Opera Workshop- Staged productions of operas and operatic scenes. (1,2,3-1,2,3)

1370C-1380C, 2370C-2380C, 3370C-3380C, 4370C-4380C. Contemporary Group -
Study and performance of a variety of contemporary musical styles. (1 each)

2331xx, 2332xx, 2333xx - 2341xx, 2342xx, 2343xx;
3331xx, 3332xx, 3333xx - 3341xx, 3342xx, 3343xx;
4331xx, 4332xx, 4333xx - 4341xx, 4342xx, 4343xx. Chamber Ensemble - Study and performance of chamber music in various instrumental combinations. (Courses carry instrument suffix.) (1, 2, 3-1, 2, 3)

## Music Education (MUME)

2013. Elementary Classroom Music - Study of music fundamentals and the materials and methods of teaching music in the elementary school. Designed for Elementary Education majors. (3)

3021A-3022B. Music in the Junior-Senior High School - Same course description as EDUC 3020A-B.

4061T/4061S. Student Teaching in Music/Seminar in Student Teaching in Music See EDSC 4061/4061S. (9/0)

## Music History (MUSH)

1050. Introduction to Music History and Literature $\mathbf{I}$ - An overview of the fundamentals of the history and literature of music from the Medieval through the Baroque Periods. This course will emphasize listening and is designed for music majors. (3)
1051. Introduction to Music History and Literature II - An overview of the fundamentals in the history and literature of music from $18^{\text {th }}$ century Classicism through the New Music of the $20^{\text {th }}$ century. This course will emphasize listening and is designed for music majors. (3)
1052. Music Appreciation- General study in the history and literature of music designed for the non-music major. (3)
1053. Music History I - Ancient, Medieval, and Renaissance music. Pre-requisite: MUSH 1050. (3)
1054. Music History II - Music of the Baroque era. Prerequisite: MUSH 1050. (3)

2130-2140. Afro-American Music - Music of the African American. (3-3)
3050. Music History III- Classical and Romantic music. Prerequisite: MUSH 1050. (3)
3060. Music History IV - Contemporary music. Music of the 20 th century. Prerequisite: MUSH 1050. (3)

## Musicianship (MUSM)

1200. Italian Diction - Rules of pronunciation in basic Italian song literature. (1)

1211,1212-1221, 1222. Voice Class I - II - Principles of voice production. (1,2-1,2)

2211,2212-2221,2222. Voice Class III - IV - More advanced approach to voice production. Prerequisite: MUSM 1211-1221 or private voice study. (1,2-1,2)

1270-1280. Piano Class I - II - Fundamental piano techniques. (1-1)
2270-2280. Piano Class III - IV - Continuation of basic piano techniques. Pre-requisite: MUSM 1270-1280 or private piano study. (1-1)

3270-3280. Piano Class V - VI- Advanced techniques of piano study. Pre-requisites: MUSM 2270-2280. (1-1)
2010. Foundations in Functional Musicianship I - Voice and Percussion - A brief overview of the vocal mechanism with its fundamental pedagogy and a selected study of percussion instruments. (1)
2020. Foundations in Functional Musicianship II - Woodwinds and Brass Techniques of woodwind and brass playing and fundamental pedagogy. (1)
3010. Foundations in Functional Musicianship III - Strings and Guitar - Basic
techniques of playing stringed instruments and basic fingering and techniques of guitar playing. (1)
4010. Foundations in Functional Musicianship IV - Technology in the Teaching of Music - An introduction to music technology in software and computer programs, audio-visual teaching support technology, Powerpoint, and the use of digital piano/computer lab. (1)
2180. Elementary Conducting - Techniques and terminologies for beginning conductors. (2)
3180. Advanced Conducting - Advanced techniques, strategies, and terminology for conducting band, orchestra, and chorus; guidance in conducting choral, orchestra, and band rehearsals and performances. Prerequisite: MUSM 2180. (2)
2200. French Diction- Rules of pronunciation using basic French song literature. (1)
3200. German Diction- Rules for pronunciation using basic German song literature. (1)

4001, 4002, 4003. Directed Readings in Music- (1, 2, 3)
4101, 4102, 4103. Special Topics in Music - Selected studies in the history, literature, performance, or theory of music. $(\mathbf{1 , 2 , 3})$

4210-4220. Vocal Pedagogy and Literature I - II - Pedagogical and historical concepts in vocal study, vocal production and vocal literature. Prerequisite: Junior or senior status. (2-2)

4250-4260. Major Applied Instrument Pedagogy and Literature I - II - Pedagogical and historical concepts of the major applied instruments, methodologies, and literature. Prerequisite: Junior or senior status. (2-2)

4270-4280. Piano Pedagogy and Literature I - II - Pedagogical and historical concepts in piano study, methodologies and literature. Prerequisite: Junior or senior status. (2-2)
4999. Senior Comprehensives - Required in last semester of residence for Bachelor of Arts majors. (0)

## Music Theory (MUST)

1030-1040. Music Theory I - II - Rudiments of music; part-writing techniques; primary, secondary triads and dominant sevenths and inversions. Prerequisite for MUST 1030: entrance examination. MUST 1030 is prerequisite for MUST 1040. (3-3)

1030L-1040L. Music Theory Lab I - II - Emphasis on sight-reading, ear-training, and dictation. Prerequisite for MUST 1030L: entrance examination or MUST 1000. MUST 1030L is prerequisite for MUST 1040L. (1-1)

2030-2040. Music Theory III - IV - Advanced part-writing; seventh chords, secondary dominants, simple and advanced alterations; modulation; chromatic harmony; 20th century applications. Prerequisite: MUST 1030-1040. MUST 2030 is prerequisite for MUST 2040. (33)

2030L-2040L. Music Theory Lab III - IV - Advanced sight-reading, ear-training, and dictation. Prerequisite: MUST 1030L-1040L. MUST 2030L is prerequisite for MUST 2040L. (1-1)
3030. Eighteenth Century Counterpoint- Contrapuntal techniques and stylistic functions found in Baroque forms; practical application to writing in this style. Prerequisites: MUST 10301040 and MUST 2030-2040. (2)
3090. Orchestration- Study of and writing for orchestral instruments. Prerequisites: MUST 1030-1040 and 2030-2040. (2) h

3111-3112. Composition I - II - Study of compositional methods and writing in small forms. Prerequisites: MUST 1030-1040 and MUST 2030-2040. (2-2)

4030-4040. Analytical Techniques I - II - Historical analysis of music from Medieval to Contemporary era. Prerequisites: MUST 1030-1040 and MUST 2030-2040. (2-2)

4500H. Music Theory Honors Seminar - A seminar project under the supervision of a selected faculty person in fulfillment of departmental requirements to graduate with honors in music theory. The students who elects to complete this program must choose one of the following projects: (A) composing an original work of one or two movements, (B) arranging an approved composition, or (C) the formal analysis of an approved composition. (1)

## Music Recitals (MURE)

1070A-1070B, 2070A-2070B, 3070A-3070B, 4070A-4070B. Recital Class - Weekly
recitals for performance experiences. Required of all music majors. (0)
3000. Junior Recital - Required during junior year of all performance majors. (0)

## PHARMACY <br> DIVISION OF BASIC PHARMACEUTICAL SCIENCES <br> MEDICINAL CHEMISTRY (PHCH)

4450-4460. Medicinal Chemistry I and II - Usually offered fall and spring semesters respectively. Chemistry of drugs and related endogenous compounds, structures, classifications, structure-activity relationships, mechanisms of actions, physicochemical properties, and metabolism. Prerequisite for both: PHSC 3622. Corequisite for 4450: PHSC 3632L, Prerequisite for 4460: PHSC 3632L. (3-3)

## PHARMACOLOGY (PHCL)

3350. Biomedical Immunology - Usually offered in fall semester. Immunology from a biomedical perspective as applied to pharmacy practice. Introduces basic principles of the immune system as an adaptive physiological system. Prerequisite: Admission to the College of Pharmacy. (2)

## 3450-3460/3450L. (BIOL 3450/3450L-3460) Human Physiology and Anatomy -

Comprehensive view of the human body emphasizing individual systems and their interactions with each other and exogenous materials. Limited to Pharmacy students. Prerequisite: BIOL 1240. (3-3/1)
4310. Pathophysiology - Usually offered fall semester. Basic principles of general and systemic disease processes. Emphasis placed on etiology, clinical findings and pathogenesis of selected diseases. Prerequisites: PHSC 4120, PHCL 3450, PHCL 3450L, PHCL 3460, PHCL 3350, PHSC 3640. (4)

4510-4520/4520L. Pharmacology I and II - Usually offered fall and spring semesters respectively. Principles and mechanisms by which chemical agents modulate physiological functions. The laboratory addresses applications of pharmacological concepts. Major topics include basic principles, autonomic, cardiovascular, renal, endocrine, gastrointestinal, and central nervous system pharmacology, autacoids, immunomodulators, antimicrobial and anticancer agents. Prerequisites: PHSC 4120, PHSC 3622, PHCL 3350, PHSC 3640, Corequisite of 4510 : PHCL 4310. Prerequisite for 4520/4520L: PHCL 4310. (4-3/1)

## PHARMACEUTICS (PHCT)

4050/4050L. Pharmaceutics I- Usually offered spring semester. Concepts of design, preparation, use, and evaluation of solid, and semi-solid dosage forms. Specific topics include powders, tablets, capsules, coated dosage forms, suspensions, emulsions, magmas, gels, lotions, ointments, creams, pastes, suppositories, transdermal systems, sustained release products, and novel drug delivery systems. Prerequisite: PHCY 3150, Corequisites: PHCY 4050 and 4050L are mutually corequisite. (3/1)
4060. Pharmaceutics II- Usually offered fall semester. Concepts of design, preparation, use, and evaluation of liquid dosage forms. Principles of ionic equilibria, pharmaceutical buffers, colligative properties, chemical kinetics, and solubility product are discussed. Specific topics include oral, nasal ophthalmic, parenteral, topical, aerosol solutions, and products of biotechnology and recombinant DNA. Prerequisite: PHSC 3622, PHCY 3150. (3)
4480. Biopharmaceutics and Basic Pharmacokinetics - Usually offered spring semester. Mathematical descriptions of the complex processes involved in drug release, absorption, distribution, metabolism and excretion. Introduction to the basic pharmacokinetic principles behind the assessment of bioavailability and bioequivalence, drug interactions and calculations of dosage regimens. Prerequisites: PHCT 4050 and PHCT 4060. (3)

## PHARMACY (PHCY) For other PHCY courses, see DCAS section.

3150. Pharmaceutical Calculations - Usually offered fall semester. Reviews basic arithmetic skills and discusses fundamental calculations encountered in the practice of pharmacy. Prerequisite: Admission to the College of Pharmacy. (2)

4310-4320. Research and Literature Evaluation I and II - Usually offered fall and spring semesters, respectively. Introduction to theory and practice of research methodology and evaluation of literature in biomedical sciences. Topics include protocol development, study designs, sampling techniques, data collection, measurement and analysis, ethical and regulatory considerations as well as techniques for evaluating and summarizing medical literature. Prerequisite: PHCY 4600 and enrollment in College of Pharmacy for two years. PHCY 4310 is a prerequisite to PHCY 4320. (1-1)
4430. Basic and Clinical Nutrition - Usually offered spring semester. Information on nutrition in relationship to maintenance or restoration of health and treatment of diseases. Prerequisite: PHSC 4120 and enrollment in College of Pharmacy for one year. (3)
4600. Biostatistics- Usually offered fall semester. Introduction to basic biostatistical principles and statistical concepts, principles and methods used in designing experiments, analyzing data and drawing inference in biomedical/pharmaceutical sciences. The student shall also be exposed to the use of a statistical software package. Prerequisite: Admission to the College of Pharmacy. (3)

3041, 4042, 4043, 4054, 4055. Pharmacy Skills Labs 1, 2, 3, 4, 5 - Usually offered spring semester $(1,3,5)$ and fall semester $(2,4)$. Experiences designed to reinforce classroom learning and prepare students with skills for professional practice. Specific skill areas include computer and information systems, pharmaceutical care, communication, nutrition education, and patient cases. Because the skills practiced or learned in the labs are designed to reinforce classroom learning, prerequisites and corequisites are designated/listed by the course in which the students are enrolled. (1-1-1-1-1)

## PHARMACEUTICAL SCIENCES (PHSC)

3640. Molecular Biology and Biotechnology - Usually offered spring semester. Molecular biology concepts applied to pharmacy with emphasis on components, techniques and products of pharmaceutical biotechnology. Prerequisites: Admission to the College of Pharmacy and PHSC 4120. (3)
3641. Principles of Drug Action - Usually offered spring semester. Concepts and principles across a range of basic pharmaceutical sciences including medicinal chemistry, pharmacology, toxicology and pharmacokinetics. Major topics addressed include physicochemical properties, drug stability, metabolism, pharmacodynamics, toxicity, pharmacokinetics, drug design and radiopharmacy. Prerequisite: PHSC 4120. (2)

3632L. Pharmaceutical Sciences Lab - Usually offered fall semester. Topics include laboratory safety, scientific report preparation, partition coefficients, distribution phenomena, buffers, drug lability, enzyme function, biotechnology and immunology. Prerequisite: PHSC 3622. (1)
4120. (PHSC 4120) Pharmaceutical Biochemistry - Students will be introduced to the structure and function of biomolecules, including their metabolism, synthesis, and degradation. They will learn major biochemical pathways and biochemical energetics. Students who complete the course will be aware of the significance of biochemistry relative to specific clinical problems. They will be cognizant of diseases derived from aberrant biochemical processes and of biochemical solutions based upon an understanding of molecular cellular processes. Prerequisites: CHEM 2220 or equivalent. Limited to Pharmacy students. (3)

## PHARMACY <br> DIVISION OF CLINICAL AND ADMINISTRATIVE SCIENCES

## CLINICAL PHARMACY (PCLN)


#### Abstract

4370. Pharmacy Practice - Usually offered fall semester. Provides an orientation to various areas of contemporary pharmacy practice. Topics include practices in community, institutional, industrial, nuclear, long term care, and clinical pharmacy. Application of knowledge is emphasized. Prerequisites: PHCY 3030-3040, PHCL 4510-4520/4520L, PHAD 4450, PHCT 4050/4050L, and PHCT 4060. Corequisite: PCLN 4370L. (3)


4370L. Pharmacy Practice Lab - Usually offered fall semester. Simulation of professional activities associated with community and institutional pharmacy practices. Corequisite: PCLN 4370. (1)
4590. Applied Pharmacokinetics - Usually offered fall semester. Focus on principles of therapeutic drug monitoring and clinical pharmacokinetics of select drugs in different patient populations and disease states. Prerequisites: PHCL 4510, PHCL 4520-4520L, PHCT 4480. (3)

4660-4670-4680. Disease State Management I, II \& III - Usually offered spring (I and III), and fall (II) semesters. Information on clinical use of drugs. Focus on assessment and medical management of various disease states, consideration and precautions in selection and dosing of medications, and recognition of significant adverse effects and toxicity of drugs. For 4660 Prerequisites: PHCL 4310, PHCL 4510 and Corequisite: PHCY 4043. For 4670 - Prerequisites: PCLN 4660, PHCL 4520/4520L and Corequisite: PHCY 4054. For 4680 - Prerequisite: PCLN 4660 and Corequisite: PHCY 4055. (4-4-4)

5002-5003. Community Externships - Usually offered all semesters including summer. Professional experience rotations designed to provide experience in the delivery of pharmaceutical care as it relates to community (retail) pharmacy practice. Student, under the direct supervision of a Registered Pharmacist-Preceptor, will be exposed to all of the ethical, legal, professional and managerial functions required of a competent pharmacist in a community-based practice site. Specific activities include: receiving, dispensing and compounding prescriptions; and advising patients on the proper use of prescription and non-prescription medications, products, supplies, and/or devices. Prerequisite: Completion of all first, second and third year pharmacy courses. (44)

5102-5103. Institutional Externships - Usually offered all semesters including summer. Practical experience rotations designed to provide experience in the delivery of pharmaceutical care as it relates to hospital and institutional pharmacy services. Under the direct supervision of a Registered Pharmacist-Preceptor, the student will actively participate in drug distribution, intravenous admixture services and institutional practice management. The student will learn how these activities are interrelated and coordinated with other healthcare providers (physicians, nurses, etc.) involved with drug use throughout the institution. Participating hospitals are selected on the basis of their broad range of pharmaceutical services. Prerequisite: Completion of all first, second and third year pharmacy courses. (4-4)

5212-5222-5232-5242-5252-5262. Clinical Clerkships - Usually offered all semesters including summer. Clerkship experience involving direct patient care in monitoring the patient's medications for appropriateness of therapy; activities will also include patient medication counseling and dissemination of drug information to patients and healthcare professionals; involvement in various quality assurance activities for ultimate collaboration among all healtheare team participants to improve the patient's therapeutic outcome. Prerequisite: Completion of all first, second and third year pharmacy courses. (4-4-4-4-4-4)

## PHARMACY ADMINISTRATION (PHAD)

4450. Behavioral Pharmacy and Communications- Usually offered spring semester. Emphasizes improvement of interpersonal communication to enhance patient understanding of therapeutic regimens and achievement of desired health outcomes. The theoretical framework is formed from the patient-centered model of the medication use process. Prerequisites: Enrollment in College of Pharmacy for one academic year, PSYC 1010 or SOCI 1010. Corequisite: PHCY 4043. (2)
4451. Pharmacy Management - Usually offered fall semester. Introduces economic, administrative, and social behavioral aspects associated with the operation of a pharmacy. Major topics include; organizational structure, policy formulation, financial analysis, purchasing and inventory control, personnel management, pricing, and promotion. Prerequisites: ECON 1030, PSYC 1010 or SOCI 1010. Corequisite: PCLN 4370. (3)
4452. Practice Management and Pharmacoeconomics- Usually offered spring semester. Applications of pharmacy management principles to practice settings and introduction to principles of economic outcomes assessment as tools in decision making. Prerequisite: PHAD 4410. (3)
4453. Pharmacy Law - Usually offered spring semester. Study of the Federal Controlled Substance ACT, DEA regulations and Louisiana State Laws. Includes focus on malpractice liability, theory and legal issues: Prerequisite: PCLN 4370/4370L. (2)

## PHARMACY (PHCY) For other PHCY courses, see DBPS section.

3030-3040. Introduction to Pharmacy I and II- Usually offered fall and spring semesters respectively. Introduction to history of pharmacy, healthcare, epidemiology, preventive medicine, pharmacy laws and regulations, pharmacy careers and applications of technology in pharmacy. Includes basics of pharmacy practice and use of traditional and electronic drug information resources. Prerequisite: Admission to College of Pharmacy. PHCY 3030 is NOT a prerequisite for PHCY 3040. (2-2)
5500. Seminar- Designed to provide experience in preparation and presentation of pharmacy related topics to professional peers. Seminar topic categories include pharmacy practice, therapeutic issues, and research reports. Prerequisites: PCLN 4660 and PCLN 4670. (1)

## PHILOSOPHY (PHIL)

## Introductory Courses

## A STUDENT MAY NOT TAKE MORE THAN ONE OF THESE COURSES TO SATISFY CORE CURRICULUM REQUIREMENTS.

1030. Great Books in Philosophy - Usually offered fall and spring semesters. An introduction to philosophy using the original writings of several philosophers from the classical to the contemporary periods. The intent of this course is to develop the student's capacity for critical reading, writing, and thinking, with a general consideration of the nature, methods, and cultural impact of philosophy. Prerequisite: completion of any required non-degree credit courses. (3)
1031. Problems in Philosophy- Usually offered fall and spring semesters. An introduction to philosophy using the fundamental questions of philosophy as well as some of the most outstanding contributions to their solutions, with a general consideration of the nature, methods, and cultural impact of philosophy. This course will develop the student's capacity for critical reading, writing, and thinking. Prerequisite: completion of any required non-degree credit courses. (3)

> | THE FOLLOWING COURSES MAY BE TAKEN AS EITHER |
| :--- | :--- |
| INTRODUCTORY COURSES OR AS UPPER LEVEL COURSES. |

2011. History of Ancient and Medieval Philosophy - Usually offered fall and spring semesters. An introduction to philosophy, using the thought and selected writings of several western philosophers from the ancient and medieval periods, with a more general consideration of the history of philosophy and the nature, methods, and cultural impact of philosophy. This course will develop the student's capacity for critical reading, writing and thinking. Prerequisite: completion of any required non-degree credit courses. (3)
2012. History of Modern Philosophy - Usually offered spring semester. This course traces the development of western philosophical thought from the continental rationalists to the nineteenth century. It will increase the student's knowledge of the structure and methodology of Rationalism, Empiricism, and Idealism. Prerequisite: completion of any required non-degree credit courses. (3)
2031.19th and 20th Century Philosophy - Usually offered alternate years. This course will explore major themes and developments in philosophy in the 19th and 20th centuries. The aim of the course is to acquaint students with the writings and thought of those thinkers whose work has had the most significant impact on philosophy over the last two centuries. Topics to be covered include the nature of the self and subjectivity; knowledge; language, meaning, and mind; morality and society; and the future of philosophy. Prerequisite: completion of any required non-degree credit courses. (3)
2040.Logic - Usually offered fall and spring semesters. A systematic study of propositional (sentential) logic and predicate (quantificational) logic through identity with the aim of learning the formal methods of distinguishing correct from incorrect reasoning and application of these methods to various areas of inquiry. This course will increase the student's ability to reason rigorously. Prerequisite: completion of any required non-degree credit courses. (3)
2013. Ethics: General Principles- Usually offered fall and spring semesters. This course offers a study of the nature of ethics and the ethical themes and theories that influence modern culture. This course will increase the student's ability to think critically and thoroughly about ethical principles. Prerequisite: completion of any required non-degree credit courses. (3)

## Upper Level Courses

2060. Environmental Philosophy - This course will increase the student's knowledge of humanity's understanding of its relationship to the natural environment. Topics include historically prominent conceptions of that relationship, the philosophical foundation of the contemporary environmental movement, and attempts to construct philosophically defensible environmental ethics. Prerequisite: 3 semester hours in philosophy. (3)
2061. African American Philosophy - A study of philosophical issues associated with the African American experience. This course will increase the student's knowledge of the nature of African American philosophy, the concepts of race and culture, the nature of racism and discrimination, and the justifiability of affirmative action. Prerequisite: 3 semester hours in philosophy. (3)
2081.African Philosophy - This course provides an introduction to African Philosophy. The course is divided into three parts. Part I will focus on recent debates about the nature and scope of African Philosophy. Issues to be examined here include: (1) philosophy and colonialism; (2) the significance of traditional African beliefs for contemporary philosophical practice; (3) individual thinkers and communal wisdom; and (4) writing versus speech as vehicles for philosophical expression. In Parts II and III we turn more explicitly to philosophical issues concerning (5) science, technology, and modernization in Africa; and (6) African political theory. Prerequisite: 3 semester hours in philosophy. (3)
2062. Philosophy of Art - This course will increase the student's knowledge of the theories of art, beauty, art criticism and creativity. It will focus not only on theoretical understanding of art but also on applications of these theories to the major arts. Prerequisite: 3 semester hours in philosophy. (3)
2063. Philosophy of Religion- This course will increase the student's knowledge of reasons for and against various fundamental religious beliefs; particularly arguments for the existence of God, the nature and significance of religious experience, the nature of religious faith, and the place of religion in culture as a whole. Prerequisite: 3 semester hours in philosophy. (3)
2064. Health Ethics- Usually offered fall and spring semesters. This course will survey a range of ethical issues pertaining to the health professions. Topics to be examined include: professional obligations and the physician-patient relationship, abortion, euthanasia, genetic research, experimentation, and the claim to health-care. Classroom time will be devoted to discussion of philosophical essays and case scenarios concerning these topics. Prerequisite: 3 semester hours in philosophy. (3)
2065. Business Ethics - Usually offered fall and spring semesters. This course will survey a range of ethical issues arising in our contemporary culture that we as individuals will encounter while working in institutions, business organizations, and the professions. Among the ethical issues to be examined are: the ethical basis of business, the rights and responsibilities of corporations and their employees, and the relations of business to society and the individual. Prerequisite: 3 semester hours in philosophy. (3)
2066. Legal Reasoning - Usually offered alternate years. (Serves as an elective in the Law and Humanities Minor.) This course will increase the student's knowledge of legal reasoning in statutory, common law, and constitutional interpretation and of philosophical issues of jurisprudence connected with legal reasoning. Prerequisite: 3 semester hours in philosophy. (3)
2067. Philosophy of Science - This course will increase the student's knowledge of the scientific method, the nature of science, and the relationship of science to other academic disciplines and to culture at large. Prerequisite: 3 semester hours in philosophy. (3)
2068. Philosophy of Law - Usually offered alternate years. (Serves as a requirement in the Law and Humanities Minor.) An examination of the relationship between law and morality, with particular attention to the use of moral principles in the analysis of legal doctrine. Prerequisite: 3 semester hours in philosophy. (3)

4001, 4002, 4003. Directed Reading- Prerequisite: six semester hours in philosophy and permission of chairperson. (1, 2, or 3)

4500S.Seminar - (Special Offerings) Prerequisite: 6 semester hours in philosophy or permission of instructor. (3)

## 4999. Senior Comprehensives - (0)

## PHYSICS (PHYS)

1061. (ENGR 1061) Modern Engineering Graphics - Usually offered fall and spring semesters. An introduction to the basic techniques and concepts of engineering drawing including plane and descriptive geometry orthographic, isometric, sectional views, auxiliary views, and dimensional representations, and generating 2D and 3D computer designs. One hour of lecture and four hours of drawing and computer laboratory per week. (3)
1062. General Physics - Usually offered fall and spring semesters. First of a three-course sequence (PHYS 1121-2111-2121) for majors in physics and engineering treating the fundamental laws and principles of the various fields of physics: mechanics, relativity. Lecture and laboratory courses are integrated in a class room equipped with computers, interfaced probes and traditional laboratory equipment that enhances the interactive learning, hands-on experiences and conceptual understanding of physics. Three two hour lecture/lab sessions and one one-hour problem session per week. Corequisite: Math 1070 (4)
1063. How Things Work - An introduction, for non-science majors, to basic concepts and principles of physics by learning how objects from everyday life, such as air conditioners, bicycles or microwave ovens, work. It includes one laboratory session per week. (2/1)

2010/2010L. General Physics - Usually offered fall semester and 1st summer session. First of a two-course sequence (PHYS 2010-2020) treating the fundamental laws and principles of the various fields of physics: mechanics and heat. Prerequisite: Grade of " C " or better in MATH 1030. (3/1)

2020/2020L. General Physics - Usually offered spring semester and 2nd summer session. Second of a two-course sequence (PHYS 2010-2020) treating waves, sound, electricity and magnetism, optics and modern physics. Prerequisite: PHYS 2010. (3/1)
2030. General Physics - Usually offered fall and spring semesters. An introductory course in physics for pharmacy majors treating the basic concepts and principles of the various fields in physics: mechanics, heat, electricity, magnetism and modern physics. Prerequisite: Grade of "C" or better in MATH 1030. (3)

2060/2060L. Physics of Music - Usually offered spring semester. Introduction to the physical and acoustical background of music with analysis of sound production and reception by voice, hearing and selected musical instruments in the laboratory. (2/1)

2061L. (SPTH 2061L) Physics of Music Laboratory- Usually offered spring semester. Special laboratory for speech pathology majors treating the unique problems associated with sound production by voice and sound reception by ear. To be taken along with PHYS 2060/2060L. (1)
2111. General Physics - Usually offered fall and spring semesters. Second of a threecourse sequence (PHYS 1121-2111-2121) for majors in physics and engineering treating sound, vibrations and waves, heat and geometric optics. Lecture and laboratory courses are integrated in a class room equipped with computers, interfaced probes and traditional laboratory equipment that enhances the interactive learning, hands-on experiences and conceptual understanding of physics. Three two hour lecture/lab sessions and one one-hour problem session per week. Corequisite: MATH 2070. Prerequisite: PHYS 1121. (4)
2121. General Physics - Usually offered fall and spring semesters. Third of a three-course sequence (PHYS 1121-2111-2121) for majors in physics and engineering treating electricity and magnetism, electromagnetic waves, physical optics, and modern physics. Lecture and laboratory courses are integrated in a class room equipped with computers, interfaced probes and traditional laboratory equipment that enhances the interactive learning, hands-on experiences and conceptual understanding of physics. Three two hour lecture/lab sessions and one one-hour problem session per week. Corequisite: MATH 2080. Prerequisite: PHYS 2111. (4)
2630. (ENGR 2630) Analytical Methods for Physics and Engineering - An introduction of methods of mathematical physics used in physics and engineering such as vector and tensor analysis, Fourier analysis techniques, phasors, special functions, variation subject to constraints and elementary renormalization group techniques. The topics are introduced in the context of specific physics and engineering problems in electricity and magnetism, network analysis, modern physics, thermodynamics and mechanics. Prerequisites: PHYS 2121 and MATH 2080. Corequisite: MATH 2530. (3)
3010. (ENGR 3010) Electricity and Magnetism I - Usually offered fall and spring semesters. A complete development of electromagnetic theory beginning with the fundamental laws of electricity and magnetism, culminating with the development of Maxwell's equations, and ending with a treatment of plane electromagnetic waves. Prerequisites: PHYS 2121, PHYS 2630, MATH 2030, and MATH 2080. (3)
3011. Electricity and Magnetism II - Usually offered spring semester. A selection of more advanced topics in electromagnetism such as fields in material media, Laplace and Poisson's equations, topics from relativity, electromagnetic waves in waveguides and in conducting media, and gauge transformations. Prerequisites: PHYS 3010 and MATH 2530. (3)
3020. (ENGR 2020) Mechanics-Dynamics- Usually offered fall and spring semesters. Systematic presentation of elements of classical mechanics using language of vector algebra and vector calculus. Topics include kinematics, kinetics, work, energy, impulse, and momentum. Prerequisites: PHYS 2121 and MATH 2080. (3)
3030. (ENGR 3030) Optics - Usually offered fall semester. Study of theories of geometrical and physical optics, including reflection, refraction, interference, diffraction, polarization, doublerefraction, and lasers. Prerequisites: PHYS 2121 or 2020 and MATH 2070. (3)
3040. (ENGR 3040) Thermodynamics - Usually offered spring semester. Study of heat and temperature, the thermodynamics laws, work, ideal gases, engines, refrigeration, reversibility, entropy, phase transitions. Prerequisites: PHYS 2121 or PHYS 2020 and MATH 2030. (3)
3050. Modern Physics- Usually offered fall semester. Survey course on topics in contemporary physics. These include elements of the special theory of relativity, wave-particle duality, and elements of quantum theory as it applies to atoms, nuclei, molecules, and solids. Prerequisites: PHYS 2121 or PHYS 2020 and MATH 2070. (3)
3120. (ENGR 2120/CPEN 2210) Network Analysis I - Usually offered fall and spring semesters. An introduction to the analysis of linear, time-invariant circuits in response to steadystate and time-varying signals using various analytical tools including Kirchhoff's laws, and Thevenin's and Norton's theorems. Prerequisites: PHYS 2121 and 2630 and MATH 2030 and 2080. (3)
3210. (ENGR 2210) Mechanics-Statics - Usually offered fall and spring semesters. Analysis of systems and bodies considering the fundamental concepts of statics, including vectors, two-dimensional and three-dimensional force systems, equilibrium, friction, centroids, and moments of inertia. Prerequisites: PHYS 2121 and MATH 2080. (3)

3310L. Advanced Laboratory - Usually offered fall semester. For physics and engineering majors. Sophisticated experiments in optics and Modern Physics. Prerequisite: junior or senior status. (1)

3320L. Advanced Laboratory - Usually offered spring semester. For physics and engineering majors. Sophisticated experiments in electricity and magnetism, circuits and electronics. Prerequisite: junior or senior status. (1)

3510S - 3520S. Physics and Engineering Seminar - 3510 usually offered fall semester; 3520 usually offered spring semester. A seminar course for junior and senior physics and engineering majors, in which each student makes an oral and written presentation on a topic in physics or engineering. (1-1)
4050. Quantum Physics - Usually offered spring semester. The concepts and the mathematical methods of quantum mechanics. Topics include Schrodinger's equation in timedependent and time-independent forms; one- and three-dimensional solutions including the treatment of angular momentum and spin. Applications to simple systems such as the hydrogen atom, simple harmonic oscillator, and periodic potentials. Prerequisite: PHYS 3050. (3)
4200. Physics Projects- Usually offered fall semester. Detailed study (literature search) of one or more topics in physics. The student will submit a report on his/her study. One two-hour meeting per week. Prerequisite: Permission of chairperson or advisor. (1)
4210. Physics Projects - Usually offered fall and spring semesters. Detailed study (discussion or experimentation) of one or more topics in physics. The student will make an oral presentation on his/her study. One two-hour meeting per week. Prerequisite: Permission of chairperson or advisor. (2)
4530. Special Topics- Topics may vary from semester to semester. May be repeated for credit when the topic changes. Prerequisites and corequisites: Permission of the instructor. (3)
4999. Senior Comprehensives - (0)

## POLITICAL SCIENCE (PSCI)

1010. Introduction to Political Science - This course introduces students to the fundamental concepts and principles of political life. Focus is upon the development of the state; the role of ideology, and political participation, particularly the impact of the individual on politics. (3)
1020.American Government - Issues of American politics, including the Constitution, federalism, interest groups, political parties and elections, presidency, congress, courts, the Bill of Rights, and political equality. (3)
1011. Research Methods - Origin of the discipline of political science and the understanding of the scientific method as it relates to the discipline. Research approaches and techniques in contemporary political science. (3)
1012. International Relations - Basic orientation to study of international politics. Various objectives of nations' foreign policy. Patterns of interaction among nations, transitional organizations, intergovernmental organizations, and non-state actors in the contemporary world, stressing the nature and sources of international conflict. (3)
1013. (PADM 2050) Introduction to Public Administration - Usually offered spring semester. Introduction to concepts, processes and methods involved in the administration of public agencies, including a survey of approaches used in the study of public administration. (3)
1014. International Law and Politics - An examination of the nature and role of international law. Reviews the effects and limitations international law has on the actions and policies of nation-states in contemporary world politics. (3)
1015. Law, Politics, and Society - An introduction to the nature, functions, and limits of law and legal institutions. Includes an analysis of the world's legal systems, but emphasizes the Anglo-American legal tradition. (3)
1016. Judicial Process - An examination of the major participants (lawyers, judges, juries, interest groups) in the court system and the structure and rules in criminal and civil trial and appellate proceedings. (3)
1017. State Politics - Politics at the state level, including the relationship of state government to local governments, state party politics, legislative and executive processes. (3)
1018. Public Opinion and Voting Behavior - Relationships among attitude, the family, the school, political culture, mass media, and factors influencing voting and other political behavior. (3)
1019. Black Politics - Basic approaches to the study of Black politics. An examination of the nature of racism and the methods employed by Blacks to overcome oppression. (3)
1020. Quantitative Analysis - A survey of introductory statistics examining both descriptive and inferential statistical processes. Prerequisite: completion of developmental and core curriculum mathematics requirements and PSCI 2010. (3)
1021. Comparative Politics - Survey of different types of political systems and study of government and politics of some major nations in Europe, Asia, Africa, and Latin America. (3)
1022. International Organization - This course examines the historical, structuralfunctional, and decision-making approaches of international organizations. Emphasis will be on the United Nations and its specialized agencies, and other international organizations established specifically for political, economic and military purposes. (3)
1023. Constitutional Law - Development of the American Constitution as reflected in decisions of the Supreme Court; focuses on powers of the three branches of government and relationships of national government to states. (3)
1024. Civil Rights and Civil Liberties - Personal liberties under the Bill of Rights (such as freedom of speech, press, etc.) and the Fourteenth Amendment (due process, equal protection) as reflected in decisions of the Supreme Court. Recommended for pre-law students. (3)
1025. (SPCM 2133) Mock Trial and Debate - An introduction to the techniques of argumentation and debate applied to trial courts and the judicial process. Prerequisite: SPCM 1010. (3)
1026. Political Psychology- This course is an elective for majors or minors. It is to be offered every other fall semester. It will include a survey of psychological influences on political behavior; socialization and leadership styles; person and state perceptions; conformity; opinion and attitude formation; gender differences; ideological orientations; conflict, change, and group dynamics; analytical framework. Prerequisites: PSCI 1010, PSYC 1010 or permission of the instructor. (3)
1027. Political Thought - Survey of the history of political thought from the Greeks to the present, emphasizing major political thinkers and the classical writings of political theory. (3)
1028. Modern Political Thought - Origins, development, and transformation of modern political ideologies into political movements and regimes. (3)
1029. (PADM 3360) Public Policy- Development and content of public policy in the American political system, focusing primarily on the national level but also considering state and local levels; processes linking citizen demands and government action and stressing ways in which minorities might cope with and alter policy to serve their interest. (3)
1030. (PADM 3363) Environmental Policy - Examines the interrelationship between policy making and the human environment. This course will provide students with basic environmental literacy, outline policy making process, explore issues of environmental ethics, review the nexus between science and environmental policy making, and study the leadership roles African Americans assume in the environmental policy making process. (3)
1031. Presidency and Congress- Analysis of the structure of the American presidency and congress as well as the political forces which shape these institutions and their policies. (3)
1032. Urban Politics - Processes and structures of urban politics considered in core city and metropolitan contexts, stressing impacts of urban politics and distribution of power and various responses of citizens to effect changes in society. (3)
1033. Political Parties - Development, organization, and influence of political parties and interest groups. (3)
1034. American Foreign Policy- This course provides the student with a comprehensive examination of the American foreign policy-making process. Special emphasis is upon the role of various governmental institutions on the making and execution of policy; influences which shape American foreign policy; and decision-policy models within which the student can gain a greater appreciation of the events which shape our world. (3)
1035. African Politics and Government - This course provides a comprehensive examination of the role of political leadership on the development of independent Black Africa with special emphasis on the influence of major personalities, the problems of African politics, nationalities, military politics, liberation movements, African ideologies, and economic integration and regional cooperation. (3)
1036. International Political Economy - This course focuses on the historical, theoretical, and contemporary perspectives of international political economy. Special attention is devoted to changing global patterns and the relationship between economics, national and international security. (3)
1037. The Politics of Developing Nations - Types of political systems found in contemporary Africa, Asia, and Latin America, and a survey of government and politics of some major nations which are considered developing nations. (3)
1038. Democracy and Comparative Governments - Origin and development of the theory of democracy and its application to contemporary political systems. Focuses on political processes, institutions, and policies of selected governments. (3)
1039. Advanced Research in the Behavioral Sciences- Intended for students preparing for a research-oriented career or planning on pursuing graduate study in their discipline. Focus on quantitative analysis of data using mainframe computers and SPSS and the presentation of reports and hypothesis testing. Students will complete a significant research project within a general topic area and using a large data set selected by the instructor. Prerequisites: PSCI 2010 and 2511, or consent of instructor. (3)

4901P, 4902P, 4903P. Independent Study - Intensive individual readings in areas agreed upon by student, instructor, and chairperson. Prerequisite: Permission of instructor and chairperson. $(\mathbf{1 , 2 , 3})$

4911P, 4912P, 4913P. Independent Research- Research project on topic agreed upon by student, instructor, and chairperson. Prerequisite: Permission of instructor and chairperson. (1, 2, 3)
4920. Seminar in Urban Studies - In-depth study of a particular urban policy area such as housing, race, transportation, employment, welfare, etc. Field observations and class reports included. (3)

4930S. Special Topics Seminar - Critical analysis and exploration of issues in politics and political inquiry through discussions of reports and research studies. Topics vary according to the interests of department faculty and majors. Some possible topics are Black Political Organizations, New Orleans Politics, Politics of Education, etc. (3)

4953/4956. Politics Internship - Placement with an elected official, public agency, or "quasipublic" sector-related agency under field supervisor. Student prepares written analysis of his/her experience in relation to theoretical concepts studied in courses. Student reports to field assignment rather than having classes, assignments, and examinations; the formal class meeting is a conference period with the instructor at one or two week intervals as scheduled. Graded on Pass/Fail basis. Prerequisite: written permission of instructor and department chairperson. ( $\mathbf{3}$ for $10 \mathrm{hrs} /$ week field assignment; $\mathbf{6}$ for $20 \mathrm{hrs} /$ week field assignment)

4963/4966.Legal Internship - Placement with a law office or judicial agency under field supervisor. Student prepares written analysis of his experience in relating the internship experience to literature in the field and meets with the instructor at two week intervals as scheduled. Graded on Pass/Fail basis. Prerequisite: written permission of instructor and department chairperson. ( $\mathbf{3}$ for $10 \mathrm{hrs} /$ week field assignment / $\mathbf{6}$ for $20 \mathrm{hrs} /$ week field assignment)
4999. Senior Comprehensives - (0)

## PSYCHOLOGY (PSYC)

1010. Introductory Psychology - Usually offered fall, spring, and summer semesters. Foundation for more advanced study. Includes history and methodology, development, biological basis of behavior, learning and memory, personality, psychopathology, and social influences on behavior. (3)
1011. Human Development- A study of the individual from birth to senescence. Emphasizes normal physical, emotional, and intellectual development. (3)
1012. History and Systems in Psychology - Offered occasionally. A survey of philosophical, theological, and physiological roots of psychology as well as more contemporary views and trends. Prerequisite: PSYC 1010 or permission of instructor. (3)
1013. Experimental Psychology - Usually offered fall and spring semesters. Examines the methods of psychology such as observation, case study, and experimentation. Prerequisite: PSYC 1010. (3)
1014. Comparative Psychology- Investigates animal behavior in the laboratory and in natural and semi-natural settings. Focuses on the application of knowledge about animal behavior to the explanation of human behavior. Discusses such issues as aggression, communication, and the genetic basis for behavior. Prerequisite: PSYC 1010. (3)
1015. Writing in Psychology - Offered periodically. Provides an introduction to written communication in psychology and related social sciences. Includes information on selecting topics, gathering and organizing information, using APA style, proofreading, etc. Prerequisites: ENGL 1010. (3)
1016. Human Sexuality - Designed to cover a full spectrum of health issues in human sexuality, this course will cover psychological, physiological, social, developmental, spiritual, and interpersonal factors in human sexuality. Its goals are to provide objective information, develop research interests in the field, highlight the most recent developments, literature, and discoveries in this area, and to promote sexual health at all levels. The major emphasis will be to inspire healthy decision making. Prerequisites: PSYC 1010 or permission of the instructor. (3)
1017. (BHSC 2511) Analytic Research I - Usually offered fall and spring semesters. A calculational survey of introductory statistics. Will examine both descriptive and inferential statistical processes. Prerequisite: PSYC 1010 and completion of all developmental mathematics requirements. (3)
1018. Introduction to Research- Usually offered fall and spring semesters. Research approach to selected topics from PSYC/BHSC 2511; scientific report writing, logic of scientific method, research design, library research, and readings from the literature. Pre-requisites: PSYC 1010, PSYC/BHSC 2511 or MATH 1020 or STAT 2010, and PSYC 2020. (3)

> | PSYCHOLOGY 1010, 2020, AND 2512, OR PERMISSION OF THE |
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| INSTRUCTOR ARE THE PREREQUISITES FOR ALL 3000 AND 4000 |
| PSYCHOLOGY COURSES. EXCEPTIONS ARE PSYC $3041,4011,4012$, |
| AND 4013 (SEECIFIC PREREQUISITES FOR THESE COURSES ARE |
| INDICATED WITH THE COURSE DESCRIPTION). |

3010. Social Psychology - Usually offered fall semester. Survey of social influences on behavior. Includes affiliation and interpersonal attraction; person perception; conformity; attitude formation, assessment, and change; prejudice; aggression; social learning; and group dynamics. (3)
3011. (EDUC 3020) Child Psychology- Usually offered fall semester. Study of physiological, intellectual, social, emotional, and moral factors affecting child growth and development. (3)
3012. Adult Development and Aging - A survey of adult development and aging from young adult to old age. The influence of biological, psychological, socio-cultural, and life cycle forces will be examined with an emphasis on normal development. (3)
3013. Cognitive Psychology - Examines mental processing through the study of thinking, problem solving, and memory. Includes such topics as artificial intelligence, heuristics vs. algorithms, mnemonics, and cognitive development in children. (3)
3014. (EDUC 3040) Educational Psychology- Usually offered fall semester. Study of the nature, conditions, outcomes, and evaluation of learning. Systems approach; use of a variety of media and optimum clinical experience; cognitive and affective factors influencing learning process. (3)
3015. Black Psychology- Usually offered fall and spring semesters. This course is designed to generate critical and analytic thinking about each student's identity as a member of American society and as a member of the "global village." The course is reading/writing intensive as it investigates "the Black Experience." As the course progresses, the student is expected to be more facile in his/her ability to influence and change our psychosociocultural environment in positive and meaningful ways. (3)
3016. Industrial/Organizational Psychology - An introduction to the theories, methods, findings and applications of Industrial/Organizational Psychology. Topics include the principles and techniques of selection of personnel, the application of psychological principles to the training of organization members work attitudes and motivation, various theoretical approaches to leadership, organizational communication, and organizational structure and design. (3)
3017. Physiological Psychology- Usually offered fall semester. This is a basic introductory course in the field of neuroscience. It examines the biological basis of behaviors such as aggression, reproduction, sleep, dreaming, and mental disorders. Prerequisites: BIOL 1030 or 1230. (3)
3018. Abnormal Psychology - Usually offered fall and spring semesters. Classifications from DSM-IV will form the foundation for viewing the dynamics of behavior and the diagnostic basis for psychopathology. Primarily a systematic, descriptive, and theoretical approach that discusses etiology and pathophysiologic processes when they are known. (3)
3019. Forensic Psychology - Involves the application of psychological and clinical skills to legal, criminal justice, sociological, and political issues. Includes such concepts as "expert witness" testimony, the concept of "amicus curiae," and the process of jury selection. (3)
3020. Psychology of Learning - Usually offered spring semester. A survey of the major theories and empirical research. Topics include principles of classical and operant conditioning, reinforcement, motivation, and forgetting. (3)
3021. Psychotherapies- Usually offered fall and spring semesters. A comprehensive examination of the major forms of psychotherapy and the different views of psychopathology. The focus will be on personal growth and improvement, as well as on the correction of individual problems. Prerequisite: PSYC 3080. (3)
3022. Tests and Measurements - Survey of the methodology of assessment, test design and construction, test administration and scoring, achievement and intelligence testing, personality observations and inventories, and issues in ethics and applications of testing. Prerequisites: MATH 1020 could be used in place of PSYC 2511 as a prerequisite. (3)

3200L.Psychology Laboratory - A research course designed to give students direct experience in conducting experimental laboratory research. Students will participate in the design and implementation of experiments, both as experimenters and experimental subjects, and provide oral and written research reports. (1)

4000S. Seminar - Offered rarely. Content varies according to current developments in field of psychology and student needs. (3)
4010. Theories of Personality - A survey of the major personality theories and their authors, as well as their systematic approaches to developing their theories. (3)

4011, 4012, 4013. Independent Study - Offered periodically. Intensive individual readings on topic agreed upon by student and the instructor. Prerequisite: Permission of instructor and chairperson. $(\mathbf{1 , 2 , 3})$
4030. The Psychology of Group Dynamics - Offered periodically. Designed to explore theory and research dealing with group processes. Emphasis is placed on the individual within the group and the application of theory and research to real world situations. Topics to be covered include group development and socialization, individual conformity and influence, individual performance in groups, decision making, and crowds and collective behavior. (3)
4040. Psychology of Gender - Focuses on how gender as a social construct shapes the lives of men and women in contemporary society. Specific issues addressed include ideas and stereotypes about masculinity and femininity; gender differences and similarities in cognitive abilities, personality, and social behavior, gender roles in families; the economic dynamics associated with gender; representations of men and women in the media and culture; and the potential for change in gender relations and gender inequality. Prerequisites: PSYC 3010. (3)
4050. Psychopharmacology- Emphasizes the biomedical model in the treatment of mental and behavioral disorders. Also examines the use of antidepressants, antipsychotics, and other drug therapies for the treatment of psychopathologies. Prerequisites: PSYC 3080. (3)
4080. Community Psychology- Community Psychology is an integral component of Clinical Psychology and the Clinical Curriculum within the University's Psychology Department. Primarily, this course will introduce students to the nature of "indirect services" (as opposed to direct service such as individual psychotherapy or drug therapy) which are based on primary, secondary, and tertiary prevention. Community Psychology is an action science: its goal is to understand critical social issues and problems through research, theory, and action. Prerequisites: PSYC 3080 and 3110 or permission of the instructor for non-majors. (3)
4090. (EDUC 4090) Adolescent Psychology - Usually offered spring semester. Characteristics and attendant problems of adolescent growth and development. Relevant techniques in teaching and guidance based on modern research. Prerequisite: PSYC 3040. (3)

4398-4399. Clinical Practicum- 4398 usually offered fall semester; 4399 usually offered spring semester. Supervised practice in the application of psychological techniques to clinical settings, counseling settings, and clinical administrative settings. Taught with the training staffs of cooperating institutions and agencies. Prerequisite: PSYC 3080, permission of instructor and 3.0 grade point average in psychology. (3)
4996. Historical and Applied Perspectives in Psychology - This course involves the critical analysis and exploration of major issues in psychology. The focus is the integration of knowledge and the process of disseminating knowledge. Topics vary according to the interests of the faculty and changes in the field. Prerequisites: PSYC 1010, 2020, 2511 or MATH 1020 or STAT 2010, PSYC 2512, and the completion of the majority of major courses. (3)

4997-4998. Advanced Topics in Psychology I, II - Offered occasionally. A comprehensive analysis, synthesis, and integration of the scientific principles, theoretical foundations, and applications of the major subdisciplines within the field of psychology. Prerequisites: PSYC 1012, 2010, 3010, 3050, 3080, and PSYC/BHSC 2511. (1,1)
4999. Senior Comprehensives - (0)

## PUBLIC ADMINISTRATION (PADM)

2050. (PSCI 2050) Introduction to Public Administration - Introduction to concepts, processes and methods involved in administration of public agencies, including a survey of approaches used in the study of Public Administration. (3)
2051. (PSCI 3360)Public Policy - Development and content of public policy in American political system, focusing on national level but also considering state and local levels; processes linking citizen demands and government action and stressing ways in which minorities might cope with and alter policy to serve their interest. (3)
2052. (PSCI 3363) Environmental Policy - Examines the interrelationship between policy making and the human environment. This course will provide students with basic environmental literacy, outline policy making process, explore issues of environmental ethics, review the nexus between science and environmental policy making, and study the leadership roles African Americans assume in the environmental policy making process. (3)
2053. Administrative Behavior - Concepts of administrative behavior in public organizations, including decision-making, leadership, small group behavior, and analysis of such organizations as social systems. (3)
2054. Public Personnel Administration - Basic properties, practices, and issues of public personnel administration including recruitment, management, motivation, and ethics in public service. Prerequisite: PADM 2050. (3)
2055. Public Financial Administration - Emphasizes the budget process as related to programs conditioned by revenue estimates based upon taxes, assessments, and appropriations. Prerequisite: PADM 2050. (3)
2056. Program Planning and Evaluation - Introduction to the techniques of program planning and evaluation as a government process. Prerequisite: PADM 2050. (3)

4530S. Public Administration Seminar - Usually offered spring semester. Selected topics in public administration with an attempt to relate field experiences of students to principles of administration. Prerequisite: PADM 2050. (3)

4901P, 4902P, 4903P. Independent Study - Intensive individual readings on topic agreed upon by student and chairperson. Prerequisite: Permission of instructor and chairperson. (1, 2, 3)

4911P, 4912P, 4913P. Independent Research- Research project on topic agreed upon by student, instructor, and chairperson. Prerequisite: Permission of instructor and chairperson. (1, 2,3)

4953/4956. Urban Administrative Internship- Placement with an elected official, public agency, or "quasi-public" sector related agency under field supervisor. Student prepares written analysis of his experience in relation to theoretical concepts studied in courses. Student reports to field assignment rather than having classes, assignments, and examinations; the formal class meeting is a conference period with the instructor at one or two week intervals as scheduled. Graded on Pass/Fail basis. Prerequisite: written permission of instructor and department chairperson. ( $\mathbf{3}$ for $10 \mathrm{hrs} /$ week field assignment / $\mathbf{6}$ for $20 \mathrm{hrs} /$ week field assignment)

## READING AND STUDY SKILLS (RDNG)

992. Reading and Study Skills - A course designed to help students develop and demonstrate their competence in reading and improve their study skills. Emphasis is placed on vocabulary development, literal, inferential and critical reading skills. (3, non-degree credit)
993. Critical Reading - A course designed to help students go beyond the literal interpretation of what is read. The student learns to question, analyze, evaluate information helping to make informed judgments. Reading materials for this course will provide the opportunity to judge the author's qualifications and purpose, and to sort facts from opinions. Also to become alert to unfounded assumptions, fallacious reasoning and illogical conclusions. (3)

## SALES AND MARKETING (SMKT)

2020. (ART 2020) Introduction to Graphic and Advertising Design - Page composition, layout; typography; various problems involving design with letter forms. (3)
2021. Principles of Marketing- Usually offered fall and spring semesters. Basic course. Nature and scope of modern marketing management; outlines the areas in which decisions are made in developing and implementing price, distribution, product, and promotion strategies. Prerequisite: Completion of all developmental mathematics deficiencies. (3)
2022. Marketing Strategy - Usually offered fall semester. Marketing problems analyzed and decisions reached, emphasizing the management point of view. Prerequisite: SMKT 2050 and ACCT 1010 or permission of chairperson. (3)
2023. Customer Relationship Management - Usually offered spring semester. The course will help students identify actions that businesses use to categorize and address customers effectively through the use of information and technology. This will also help students learn the benefits of knowing customers more intimately and show them how information can be used to increase revenues, satisfaction, and profitability. Prerequisites: BSAD 2060 and SMKT 2050. (3)
2024. Marketing Research - Usually offered spring semester. Analysis of marketing problems and basic research designs. Included topics: basic data collection methods; formulation of problems; sources of information; composition of data collection forms; design of samples; tabulation of data; analysis of data; preparation of reports. Actual problems and cases are utilized. Application of marketing research is related to product, place, price, promotion, other areas of marketing. Computer programs may be utilized to solve some problems. Prerequisites: SMKT 2050, ECON 2010, ECON 2020, ECON 2070, or permission of the chairperson. (3)
2025. Personal Selling - Usually offered fall semester. This course will focus on personal selling presentations and relationship development. Students will examine consultative selling techniques and relationship management strategy in order to add value through selling. Prerequisites: SMKT 2050. (3)
2026. Sales Force Management- Organization, communications process, group influences, forecasting, recruiting, training, design, motivation, supervision, compensation, control of sales organizations. Prerequisites: SMKT 2050 and BSAD 2060. (3)
2027. Consumer Behavior- Usually offered fall semester. Consumer attitudes, motivations, reactions in market, drawing on marketing, economics, psychology, sociology, theories. Prerequisite: SMKT 2050. (3)
2028. Integrated Marketing Communications - Usually offered spring semester. Emphasis is upon integrated promotional programs. The study of the advertiser, the agency, the media, and their functions as matched with consumer behavior. Advertising, public relations, personal selling, promotional packaging, along with many other sales stimulating methods and techniques are covered. Prerequisite: SMKT 2050. (3)
2029. Multivariate Data Analysis - Usually offered spring semester. This course will focus on advanced marketing research methods (multivariate data analysis techniques). Students will examine various multivariate techniques and apply them to managerial marketing situations and research questions. Pre-requisites: SMKT 2050, ECON 2070, and ECON 2080 or [MATH 1020 (STAT 2010) and MATH 2040 (STAT 2020)]. (3)
2030. Marketing Seminar - Usually offered spring semester. A survey of topics/issues of current interest in marketing. Prerequisites: SMKT 2050, SMKT 3060, SMKT 3550, and senior standing or permission of the chairperson. (3)

4501, 4502, 4503. Directed Readings in Marketing - Reading in area of marketing mutually agreed upon by professor and student which is not covered by current course. Prerequisite: permission of chairperson. $(\mathbf{1 , 2 , 3})$

## 4999. (BSAD 4999) Senior Comprehensives - (0)

## SOCIOLOGY (SOCI)

1010. Introduction to Sociology - Usually offered each semester. This course offers students the opportunity to develop their sociological imaginations through the study of the patterns and regularities of social behavior, the structure and organization of society, social institutions, socialization, and social change. (3)

> SOCIOLOGY 1010 IS A PREREQUISITE FOR ALL OTHER SOCIOLOGY COURSES. ALL NON-MAJORS TAKING SOCIOLOGY COURSES ABOVE THE 1000-LEVEL MUST DO SO WITH THE PERMISSION OF THE INSTRUCTOR.
1020. Introduction to Applied Sociology- This course is an overview of applied sociology as a social science. The course defines applied sociology and identifies the major themes within this subfield. (3)
2000. Social Welfare as an Institution - This course is an examination of the basic institutional framework of the concept of social welfare in the United States and its historical establishment as an institution. Formulation of social policies and programs, particularly during the 20th century, is examined and evaluated. Emphasis placed on the influence of the societal context of applied social science professions. (3)
2010. Social Problems - This course is centered on the examination of societal and cultural conflicts and dilemmas through the use of the principles of sociology, most especially critical analysis. Special emphasis in this course is placed on the formulation of plausible, compassionate, and just solutions to social problems. (3)
2030. (AFAM 2030) Survey of Africa - Usually offered spring semester. Interdisciplinary course dealing with traditional (pre-European), colonial, and post-independence African political, social, and economic structures and institutions. Course also focuses on problems of social, political, and economic development facing contemporary African nations. (3)
2042. Introduction to Criminal Justice - This course introduces the processes, institutions and administration of criminal justice in the United States. It examines criminal law and discusses law enforcement, criminal prosecution, bail diversion, the jury trial and sentencing as it explores the correctional system, including probation, prisons, inmates' rights and parole, and juvenile justice. (3)
2050. Marriage and Family - This course is a detailed examination of the structure, process, and functioning of the family; it also identifies crises facing the family. Included are a study of cross-cultural variations in family relationships, marriage patterns and processes and family functions. (3)
2055. Black Family - This course is a study of the Black family in the U.S. It compares and contrasts differences and similarities among Black families, especially taking into account class and family formation. This course also addresses the treatment of the Black family in academic and governmental literature. Prerequisite: SOCI 2050. (3)
2060. Race and Ethnic Relations - This course is concerned with examining issues, problems, and research findings on race, ethnic, and minority group relations. Emphasis is on U.S. Black-White relations, American ethnic groups, religious conflict, and racial and ethnic group contacts in Europe, Asia, Africa, and Latin America. (3)
2510. Quantitative Research Methods and Applied Social Statistics - This course will introduce students to quantitative research methods and statistical applications used in sociology and the social sciences. Students will develop skills in interpreting and analyzing social scientific research; and learn to apply sociological research and statistical principles to data. Prerequisite: MATH 1010. (3)
2520. Qualitative Research Methods - This course gives instruction on how to employ qualitative research methods and forms of data collection: survey (questionnaire and interview), participant and nonparticipant observation, focus group analysis, use of secondary analysis, and experimentation. The course is both theoretical and applied sociology. (3)
3020. Political Sociology - This course focuses on the nature of power, sources of authority, functions of the state, types of political systems, political culture, political socialization, community power structure studies, the nature of individual participation in the political system, political development and change, and political violence. (3)
3025. (AFAM 3025) 20 ${ }^{\text {th }}$ Century African American Urban Life - This interdisciplinary course examines African Americans as agents in shaping the $20^{\text {th }}$ century urban experience in the United States. The central focus of the course will be the development of cultural, social, religious, economic, educational and political institutions. Examples will be drawn from among communities such as Harlem, NY, the Central Avenue district of Los Angeles, Chicago's south side, and the Auburn Avenue district of Atlanta, as well as others. Prerequisite: AFAM 2000. (3)
3030. Sociological Theory - This course, formulated in sociohistorical context, addresses the major theoretical paradigms within, and the major contributors to the development of sociological theory. (3)
3040. Demography - This course addresses the principles of population analysis, most especially as they assess rates of birth, death, and migration. Also covered in this course are issues of differential health, education, occupation, life expectancy, life span, in global context. (3)
3042. Deviance - This is a survey course that looks at the establishment and maintenance of deviant categories, the motivations behind deviant behavior, the identification of deviants by formal and informal means; the effect of institutionalization upon the deviant, and the effort of deviants to eradicate the label society has placed upon them. (3)
3044. Crime and Delinquency- This course is an introduction to the study of criminology. It covers the use and abuse of crime statistics; sociological models of crime delinquency; patterns of criminal behavior, history and substantive analysis of criminal justice institutions and processes. (3)
3050. Principles and Methods of Applied Sociology - This course is concerned with the research methodologies within applied sociology. Specific attention is given to values, skills, and techniques employed by professional, applied social scientists. (3)
3060. Aging, Death and Dying - This course is a survey of problems of aging and mortality, with a special emphasis on sociological perspectives within gerontology. (3)
3070. Medical Sociology - This course provides a sociological perspective on issues in health care and health care delivery for students preparing for any health care profession. (3)
3080. Social Stratification - This course addresses the causes and effects of crystallized, historical, institutional, procedural, systemic, unequal distribution of desirable but scarce values among ranked population groupings (social strata), with major attention given to this social phenomenon within the urban industrial society. (3)
3085. (AFAM 3085) Sociology of the African American Experience - Through the application of sociological concepts, theory, and methods, this course will focus on the sociohistorical experience of African Americans. Included will be a critical examination of the African Diaspora. Prerequisites: SOCI 2060 and AFAM 2000. (3)
3100. Social Policy - This course is an analysis of social policy developments in the United States, and how said relate to international perceptions of the U.S. Contemporary; futuristic social policies are also examined. (3)
3250. Youth and Adolescence - This course is an examination of the problems of America's youth and society's attempt to deal with them. Focus of the course is on child welfare services, juvenile delinquency, and the emergent upheaval of children with special needs. (3)
3300. Small Group Dynamics - This course is an examination of the dynamics of small group interaction through an investigation of current social scientific research related to said. (3)
4000. Human Behavior and the Social Environment - This course is an overview of the sociological foundations of human behavior in everyday life. Special attention is given to human behavior in institutional and societal settings, with an emphasis placed upon theories of personal development and family systems. (3)
4010. Sociology of Education - The course addresses the processes and patterns in educational systems. Its focus is on identifying, analyzing, and solving community educational problems. (3)
4020. Urban Sociology - This course focuses on the origin and growth of cities. Included in said are: patterns of social organization and lifestyles in urban areas, metropolitan structure, suburbanization, and major metropolitan problems, including housing, finance, education, and "white flight." The U.S. urban experience is emphasized. Additional focus is placed on worldwide comparative urban situations. (3)
4040. Social Change - This course addresses classical and modern theories of change in social structure and relationships. Also covered is a discussion of specific kinds of change/revolutions: social movements, economic growth and development, and modernization. (3)
4042. Sociology of Law - This course is an exercise in the application of sociological concepts, theory, and methods, in sociohistorical context, relative to the importance of the law as a social institution. The law is treated as a socially constructed, dynamic, ever-changing construct. (3)
4045. Comparative Societies - This course on the sociology of the Third World investigates the cultures and social structures found on the continents of Africa, Asia, and Latin America. Specifically, the course will focus on the political economy of these continents, investigating stratification, social structures, and the relationship between developed "west and the rest" of the world. (3)
4050. Social Organization - The course addresses the performance and effectiveness of formal organizations. A featured aspect of this course is an analysis of the environment created by formal organizations, and the socialization of the members of formal organizations. (3)

4081, 4082, 4083. Guided Readings in Sociology - This category of courses is open only to majors; non-majors must receive the approval of the departmental chairperson. Course content is dependent upon faculty discretion. $(\mathbf{1 , 2 , 3})$
4100. Seminar in Applied Sociology - This course is designed to expose students to the praxis of applied social science. Students will conduct independent and group research that analyzes social service agencies and organizations. (3)
4650. Sociology of Women - This course is a multi-disciplinary approach to the examination of issues relating to the social, political, and economic status of women in global context, with particular attention paid to said in U.S. society with special emphasis on the differential socialization of women and men. (3)
4950. Internship - This course involves the placement of a student in the field at a non-profit agency, governmental office, etc., under the dual supervision of an on-sight evaluator and an assigned faculty member. (3)
4960. Pro-Seminar - This course is for advanced majors only. Offered occasionally and upon request of faculty/students. (3)

## 4999. Senior Comprehensives - (0)

## SPANISH (SPAN)

1010-1020. Elementary Spanish - Usually offered fall and spring semesters. Introduction to Spanish grammar and vocabulary for basic communication in the language. Students will be given ample opportunity to express themselves in Spanish, both orally and in writing. All four language skills of speaking, writing, reading, and listening will be developed and various aspects of Spanish culture will also be presented. (3-3)

2010-2020. Intermediate Spanish - Usually offered fall and spring semesters. Review of grammar and further development of language skills. (3-3)
2051. Spanish for Medical Personnel - This course provides a foundation of knowledge and experience for health care providers, enabling better communication with the Hispanic community. Vocabulary and grammar will be presented in a health care context. Students will also be given the opportunity to develop skills of listening and speaking Spanish. Spanish will be spoken at all times in class. Prerequisite: SPAN 1020 or equivalent. (3)

3001-3002. Advanced Grammar and Composition - Intensive review of grammar. Emphasis on verbs, idioms, the subjunctive, and the spoken language. Prerequisites: SPAN 2010-2020 or permission of instructor and department chairperson. (3-3)
3010. Readings in Spanish American Literature - The development of Spanish America as seen in its literature, from the Popol Vuh through the Romantics, Modernists, the novel of social protest, and contemporary authors (3)

3011-3012. Advanced Conversation - Conversation based on texts, videos, and Webbased sources. Analysis of cultural and some literary texts. Prerequisites: SPAN 2010-2020 or permission of instructor and department chairperson. (3-3)

3110-3120. Survey of Spanish Literature - Main authors and literary trends from the Cantar de Mio Cid to 1650 (first semester). Main authors and literary trends from 1700 to the present (second semester) (3-3)

3130-3140. Survey of Spanish American Literature - Main authors and literary trends from the Popol Vuh through Romanticism (first semester). Main authors and literary trends from Modernismo and Realismo to the present (second semester) (3-3)
3540. Spanish-American Novel- Development of the Spanish American novel with emphasis upon the twentieth century. (3)
3550. Spanish-American Poetry - Indigenous poetry through the twentieth century with emphasis upon trends and major figures since 1888. (3)
4020. Afro-Hispanic Studies - This course is a panoramic survey of Afro-Hispanic history and literature from early Peninsular and Latin American writings through their transformation and development into a corpus of literary works throughout Latin America. The course is open to all upper-level students who are interested in acquiring in-depth knowledge of the international African Diasporan presence in the Spanish-speaking areas of the New World. The language of instruction is English; students who have a high level of proficiency in Spanish will read the required texts in that language. (3)

4031-4041, 4032-4042, 4033-4043. Directed Readings in Spanish - Readings in an area of Spanish literature mutually agreed upon by teacher and student which is not covered by a current course. Prerequisites: Permission of instructor and department chairperson. (1-1, 2-2, 3-3)
4050. Internship - Placement in a supervised work or research situation using Spanish. Prerequisite: Permission of department chairperson. (3)

4051-4052. Special Topics in Spanish - Critical analysis and exploration of Spanish language, culture, and literature. Topics vary according to the needs and interests of department faculty and majors. May be repeated for up to 12 hours of credit. Prerequisites: 6 hours of Spanish beyond Spanish 2020, a rating of Intermediate High on the American Council on the Teaching of Foreign Languages (ACTFL) Oral Proficiency Interview, or permission of the instructor. (3-3)
4999. Senior Comprehensives - (0)

## SPEECH COMMUNICATION (SPCM)

1010. Fundamentals of Public Speaking - Usually offered fall and spring semesters. A performance-oriented course that requires students to present several speeches. Major emphasis is placed on preparation, organization, delivery, and the development of confidence and poise. (3)

1011H. Fundamentals of Public Speaking - This course is a performance-based honors course that requires students to present several speeches. Major emphases are placed on preparation, organization, delivery, and the development of confidence and pride. Students will also participate in a service learning project within the New Orleans community. Prerequisite: Placement by test score, high school GPA, and previous coursework or permission of chairperson and eligible for ENGL 1010. (3)
1070. Voice and Diction - Analysis of characteristics of good voice and speech usage. Use of IPA (International Phonetic Alphabet). (3)

2001, 3001, 4001. Speech Communication Practicum - Usually offered fall and spring semesters. Practical experience in public speaking, oral interpretation, and/or debate inside and outside of the classroom under direct faculty supervision. Prerequisites: SPCM 1010 and permission of instructor. No more than 3 semester hours credit may be earned. This course does not fulfill the core curriculum requirement. (1-1-1)
2010. Performance of Literature - The student of literature through performance. Reading, analysis, and performance of literary texts. General introduction to performance studies. (3)
2020. General Semantics- Study of the significance and influence of meaning in language. Emphasis is on practical applicationsthe uses and misuses of language in media, advertising, politics, and propaganda. (3)
2070. Interpersonal Communication - Usually offered fall semester. Designed to increase students' understanding and implementation of effective interpersonal communication behavior and skills. In this course, students will examine basic verbal and nonverbal elements affecting communication between individuals, family, peer groups, and work contexts. Students will participate in activities designed to develop interpersonal communications skills and assess their communications competence using various assessment tools. Prerequisite: SPCM 1010. (3)
2075. Special Topics in Speech Communication-~ A seminar-type course that will focus on a specific issue or area within the field of speech communication. Before enrolling, students should consult the instructor regarding the topic and course requirements. Prerequisite: SPCM 1010. Students may enroll in SPCM 2075 a maximum of two times. (3)
2133. (PSCI 3133) Mock Trial and Debate - An introduction to the techniques of argumentation and debate applied to trial courts and the judicial process. Prerequisite: SPCM 1010. (3)
2180. Advanced Public Speaking - Usually offered fall semester. Includes both a study of rhetorical analysis and practical experience in public speaking. Students will be required to deliver several speeches. (3)
2400. The Theatre- Survey of the major elements of theatre production and their combined theatrical effect. Includes overview of theatre history and reading of some significant plays. Special emphasis on Black Theatre. (3)
2500. Intercultural Communications - Familiarizes students with basic concepts, approaches, processes, and contexts which form the foundation for critical discussion of crosscultural interaction. (3)
3040. Small Group Communication - A study of problem solving through group discussion; major emphasis on group dynamics, problem solving and discussion techniques. Students will gain practical experience by participating in several formal discussions. (3)
4020. Argumentation and Debate - Principles, structures, and techniques of debate including practical implementation using current national debate topic. (3)

## SPEECH PATHOLOGY (SPTH)

1320. Introduction to Communication Disorders - Usually offered spring semester. Definitions and methods of identifying various speech-language disorders. (3)
1321. Special Topics in Speech Pathology/Audiology - Offered as needed. In-depth study through lecture, discussion, and research of a particular area or issue in the field of speech pathology or audiology. Specific subject matter to be chosen by the faculty. Prerequisites: At least six semester hours of speech pathology/audiology courses or permission of instructor. (3)
1322. Phonetics - Usually offered spring semester. Developmental use of the International Phonetic Alphabet for normal and irregular speech patterns. (3)
1323. (BIOL 2340) Anatomy and Physiology of Speech and Hearing Mechanism -

Identification and function of anatomical speech structures pertinent to the processes of speech and hearing. FOR SPEECH PATHOLOGY MAJORS AND MINORS ONLY. (4)
2500. Speech and Hearing Science - The basic principles of acoustics as applied to (a) the production of speech, including respiration, phonation, articulation, resonation, and (b) the perception of speech including auditory behavior. Prerequisites: SPTH 1320 and 2340. (3)
2730. Normal Language Development - Usually offered spring semester. Study of the normal acquisition and development of language. Prerequisite: SPTH 1320. (3)
2760. Methods and Materials - Usually offered fall semester. Introduction to the techniques and materials used in speech, language, and hearing assessment, habilitation and report writing. Prerequisites: SPTH 1320 and 2730. (3)
2920.Articulation Disorders- Usually offered fall semester. Study of the causes of articulation disorders and procedures and methods for evaluation and treatment. Prerequisites: SPTH 1320 and 2310. (3)
3335. Audiology - Usually offered fall semester. Problems of hearing, etiologies, testing, and treatment in relation to hearing disorders. Prerequisites: SPTH 2340 and 2500. (3)
3340. Aural Rehabilitation - Usually offered fall semester. Interpretation of audiograms, auditory training, speech reading, prevention of hearing loss, special problems of acoustically handicapped. Prerequisite: SPTH 3535. (3)
3535. Hearing Testing- Usually offered spring semester. Theory and practicum for differential diagnostic audiometric testing. Includes basic pure tone, speech and special testing for determining site of lesion. Prerequisites: SPTH 1320, 2340, and 3335. (3)
3560. Fluency Disorders - Usually offered spring semester. Exploration of stuttering theories, etiology, symptomatology, diagnosis, and treatment. Prerequisite: SPTH 1320. (3)
4010.Language Disorders - Usually offered spring semester. Study of the nature and causes of language disorders in children and the evaluation and therapeutic procedures used. Prerequisite: SPTH 2730. (3)
4090. Advanced Phonetics - Offered as required. Observation and recording of idiolect and dialect. Special emphasis given to dialectolalia. (3)
4320. Voice Disorders - Usually offered spring semester. Etiology, physiology, and pathology associated with the acoustic symptoms of the disorder; evaluation and current methods in voice pathology management. Prerequisites: SPTH 1320 and 2340. (3)

4601P-4602P. Clinical Practicum in Speech Pathology - Supervised experience working with persons with speech, language, and/or hearing problems; including screenings, evaluations and therapy. A minimum of 25 clock hours per semester. Prerequisites: SPTH 1320, 2310, 2340, 2730, 2760, and 2920. (2-2)

4601A-4602A. Clinical Practicum in Audiology - Supervised experience in performing hearing screenings, and evaluations. A minimum of 15 clock hours for the first semester and 25 clock hours for the second semester. Prerequisites: SPTH 2340, 3335, and 3525. (1-2)
4999. Senior Comprehensives - (0)

## STATISTICS (STAT)

2010.* (MATH 1020 - Basic Statistics I) Statistical Methods I - Usually offered fall and spring semesters. Descriptive statistics, probability and statistical inference. Prerequisite: Completion of all developmental mathematics deficiencies. (3)
*Students may not receive credit for both STAT 2010 (MATH 1020) and ECON 2070.
2020. (MATH 2040 - Basic Statistics II) Statistical Methods II - Usually offered spring semester. Hypothesis testing of population means, proportions, etc. Contingency tables, goodness-of-fit, analysis of variance, nonparametric statistics. Introduction of computer packages to analyze data. Prerequisite: Grade of "C" or higher in STAT 2010 (or MATH 1020) or ECON 2070. (3)

2150L.(MATH 2150L) Statistics Technology Lab - Usually offered spring semester. Problem-solving in statistics using appropriate statistical software. Prerequisite: Grade of "C" or higher in STAT 2010 (MATH 1020) or ECON 2070. (1)
3010.(MATH 3010) Biostatistics - Applications of descriptive and inferential statistics to health science disciplines. Introduction of specialized techniques used in biomedical sciences. Prerequisites: Grade "C" or better in STAT 2020 or MATH 2040 or ECON 2070 or permission of the instructor. (3)
3051. (MATH 3051) Mathematical Probability and Statistics I- Usually offered fall semester. Introduction to concepts of probability and random variables. Discrete and continuous distribution with applications. Algebra of expectations. Covariance and correlation in two random variables. Corequisite: MATH 2080. (3)
3061.(MATH 3061) Mathematical Probability and Statistics II - Usually offered spring semester. Purpose and nature of sampling, particularly from normal populations. Chi-square, t , and F distributions. Formulating and testing statistical hypotheses, point and interval estimation. Prerequisite: Grade of "C" or higher in STAT 3051 (or MATH 3051) or permission of instructor. (3)

4201, 4202, 4203. Special Topics - Topics may vary from semester to semester. May be repeated for credit when the topic changes. Prerequisites: Permission of the instructor. (1, 2, 3)

4511-4521. (MATH 4511-4521) Colloquium - Usually offered fall and spring semesters. Topic determined each semester by faculty. Independent work by students under the guidance of a faculty member to be presented orally and in writing to student majors and faculty. Meets once per week. Prerequisites: A grade of "C" or higher in all MATH or STAT required courses at the 2000 -level and junior or senior status. 4511 is prerequisite to 4521 . (1-1)

## 4999. Senior Comprehensives - (0)

## THEOLOGY (THEO)

## A PREREQUISITE FOR ALL THEOLOGY COURSES IS THE SUCCESSFUL COMPLETION OF ALL REQUIRED DEVELOPMENTAL READING AND ENGLISH COURSES.

## Introductory Courses

| NO STUDENT MAY TAKE MORE THAN ONE OF THESE COURSES TO |
| :--- |
| SATISFY THE CORE CURRICULUM REQUIREMENTS. |
| COURSES ARE WRITING INTENSIVE. |
| COL |

1100. The Christian Faith - Introduces the Christian Theological Tradition by presenting the historical, cultural and social contexts for past and contemporary Christian Faith. (3)
1101. Introduction to Biblical Studies - Introduces the discipline of biblical studies by applying various methodologies used by Bible scholars to the Hebrew and Christian Scriptures. Examines the historical and cultural traditions that influenced the Bible, and the religious beliefs of ancient Israel. Requires careful reading of major portions of the Bible. (3)
1102. Introduction to Theology - Introduces theology by presenting the sources and methods for doing theology and using those preliminary guidelines to approach various types of Christian theology. (3)

## Upper-Level Courses

> | A PREREQUISITE FOR ALL UPPER-LEVEL COURSES IS THE |
| :--- |
| SUCCESSFUL COMPLETION OF A 1000-LEVEL COURSE. |

2001. The Torah of Israel- Studies the core concepts of the Torah in light of modern biblical scholarship and looks at various traditional ways Jews, Christians, and Muslims have interpreted this block of biblical literature. (3)
2002. Prophets and Prophecy- Examines the phenomenon of prophecy in the Ancient Near East, the historical, literary, and cultural situation of the various prophets and their major theological emphases. (3)
2003. Psalms and Wisdom Literature - Explores Hebrew poetic techniques, the various types of psalms and their setting in Israel's life; examines the origins and function of Israel's wisdom traditions. (3)
2004. The Synoptic Gospels and Acts - Studies the content of the synoptic Gospels of the New Testament and the Book of Acts as well as their literary, historical, social and theological contexts; compares and contrasts the various portraits of Jesus, their messages for the early Christians, and their relevance for modern readers. (3)
2005. Pauline Correspondence - Examines the various letters in the Christian Scriptures associated with Paul; investigates the social settings and theological themes found in these letters and the contemporary disputes over the proper interpretation of this material. (3)
2006. Apocalyptic Literature and the Book of Revelation - Investigates the historical and cultural situation of apocalyptic literature prior to and including the Book of Revelation; the major theological emphases found in Jewish and Christian apocalypses; critiques various ancient and modern interpretations of the Book of Revelation. (3)
2007. Comparative Religion - Examines the relationship of Christianity to one or more of the world's religions. (3)
2008. Historical Survey of the Catholic Church - Presents the history of the Church, including the development of various forms and branches of Christianity. (3)
2009. Catholicism - Studies the theology, doctrine, ritual and moral principles specific to the Roman Catholic Church. (3)
2010. African American Christianity - Analyzes the development of Christianity in Africa and the Americas and contemporary Black theology. (3)
2011. (HIST 2200) Religion and Southern Culture- Examines the historical interaction between religion and culture in the American South from the colonial period to the present, with particular emphasis upon the African American experience. (3)
2012. (HIST 2250) Religions of the Ancient Near East - Examines religion in ancient Egypt, Mesopotamia, Syria, and Israel/Canaan through reading ancient Near Eastern religious texts, viewing religious iconography, and examining religious architecture and cultic implements. The course will explore these ancient societies' answers to such questions as the nature of the divine, the relationship between the divine and humans (including all classes of society), creation, problems of theodicy, and their notions of afterlife. (3)
2013. Christianity in the Early Period - Explores the history of Christianity in the first five centuries. (3)
2014. Christianity in the Medieval Period - Explores the history of Christianity from Augustine to the Protestant Reformation. (3)
2015. Christianity in the Modern Period - Explores the history of Christianity from the Protestant Reformation to the present. (3)
2016. Moral Theology - Presents the Catholic tradition of morality with attention to selected moral issues in contemporary society. (3)
2017. Women in Religion- Investigates womanist and feminist issues in religion and theology.
2018. Religion and Theology in North America - Studies the development of religious and theological issues in North America. (3)
2019. Perspectives in Contemporary Theology - Examines contemporary national and international perspectives in theology, and the major theologians who represent them. (3)
2020. Sacramental Theology - Investigates the basic principles of sacramental theology in Catholicism and other Christian communities. (3)

3010S. Seminar - Seminar on specialized topics in the related fields of theology. (1)
3012S. Seminar: Research and Presentation Methods in Theology - A seminar conducted in conjunction with various full-time faculty members to gain practical experience in using the tools and methods appropriate to various Theological specializations. (1)

3020S. Seminar - Seminar to prepare for comprehensive exams. (1)
3030S. Seminar - Utilizes readings and lectures based on the research of individual faculty members. (3)
3060. Theological Understanding of Jesus Christ - Examines the historical and theological perspectives of Jesus Christ as presented in the Christian scriptures, in early centuries of Christian thought, and in subsequent Christian reflection. (3)
3080. Theological Understanding of the Catholic Church - Explores the essential nature of the Catholic Church from a theological perspective. (3)
3120. Methods of Biblical Study- Examines the field of biblical studies by concentrating on one or more methodologies, including archaeology, historical criticism, social-scientific methods, and/or literary-based analysis. (3)
3200. Theological Foundations of Social Justice - Investigates theological texts that give a basis for justice and its meaning for contemporary society. (3)
3300. Religion in Africa - Explores aspects of religious belief and practice in traditional African religion, Christianity, Islam and Independent African churches, as well as African Theologies of liberation and incarnation. (3)
3370. History of Jewish Thought - Presents an overview of Jewish historical religious tradition. (3)
3410. Theological Perspectives of the Reformation - Explores the historical, cultural and social contexts from which the various expressions of reform movements began. The course will examine the theologies of the Protestant Reformers, the radical Reformers, and the Roman Catholic Counter-Reformation. (3)
3800. Environmental Issues in Christian Perspective - Explores modern and contemporary environmental issues from a Christian theological perspective. (3)
3850. Theology and Science - Examines the relationship between theology and science by looking at the historical development of the relationship, how theology relates to the methods and theories of science, and how theology and science have influenced, and continue to influence, one another. (3)

4001, 4002, 4003. Directed Readings - Permission of chairperson. (1, 2, or 3)
4999. Senior Comprehensives - (0)

## UNIVERSITY ORIENTATION (UNIV)

1010-1020. Freshman Orientation- 1010 usually offered fall semester; 1020 usually offered spring semester. The purpose of these courses is to provide an opportunity for students to learn and adopt methods to promote their success in school. The courses meet one hour per week each semester and are required for all freshmen or transfer students with less than 30 semester hours. Students receive non-degree credit, but do receive letter grades and the courses must be completed with a passing grade as a requirement for graduation. STUDENTS ARE NOT ALLOWED TO WITHDRAW FROM THIS COURSE. (0-0)

## WRITING (WRIT)

1050. Introduction to Creative Writing - This course introduces students to invention techniques, and components of fiction, poetry, and literary non-fiction. It will also teach workshop procedures. (3)
1051. Poetry Workshop - In this course, students learn to write different forms of poetry and will learn a variety of poetic elements such as image, metaphor, rhythm, rhyme and alliteration. Through readings, students will become familiar with the work of contemporary poets such as Lucille Clifton, Tess Gallagher, and C. K. Williams. Prerequisite: WRIT 1050. (3)
1052. Fiction Writing - Students explore different fiction writing elements such as character development, narrative point of view, setting, and plot. They begin to develop their skills at writing, revising and criticizing works of short fiction through their own creative endeavors and daily participation in the workshop. They will begin to develop, or add to their portfolio of works, while extending their familiarity with works of short fiction writers such as Raymond Carver and John Edgar Wideman, Alice Walker, and Eudora Welty. Prerequisite: WRIT 1050. (3)
1053. Nonfiction Writing - Students will study and practice writing different forms of literary nonfiction. The course will cover description, scene, summary, point of view, characterization, dialogue and other techniques. Through readings students also will become familiar with the work of contemporary essayists such as James Baldwin, Alice Walker, and Elie Weisel. Prerequisite: WRIT 1050. (3)
1054. Dramatic Writing - Dramatic Writing teaches the basics of play and screen writing including dramatic structure, character study, scene and sequence structure, techniques of visual narration, dialogue, adaptation, and language of film. Students will become familiar with contemporary playwrights, screen writers and directors. Prerequisite: WRIT 1050. (3)

2141, 2143. (ENGL 2141, ENGL 2143) Journal Practicum - Usually offered fall and spring semesters. Students gain hands-on experience in publishing. No prerequisite. Permission of the instructor required for 3 hours. Course may be repeated for credit. $(\mathbf{1 , 3})$
3060.Special Topics - Topics might include "Style and Technique in Third World Writing," "Autobiography,", "Style and Technique in African American Prose and Poetry," "Poetry and Performance," "Novel Writing," "Science Fiction Writing," "Poetry Translation," "Literature and Film," "Oral History," "Reported Truth vs Literary Truth," "Biography and Autobiography," "Letters and Letter-Writing," and "Nature Writing." Prerequisite: 2000-level Writing course. (3)
4050. Seminar - Seminars will include intensive reading, creative writing and discussion. The course will also entail practice and studies of the form, craft and theory of various genres. Possible topics include, "Women's Poetics - Ancient to Contemporary," "Multicultural Poetics," "Problems of Adaptation," "Poetry, Personae, and Author," "Literature and Translation," and "Political Poetry." Prerequisite: 2000-level Writing course. (3)
4060. Creative Thesis - Students will propose a special project which will accumulate into a body of creative work suitable for a portfolio for graduate school applications and in some instances for submission to a publisher. Projects might include writing a collection of poems, stories, or essays. Or a student might work on a novel, family history, play, or screenplay. The student may create a diverse body of work. Work will be evaluated by a committee of faculty members, including a chair responsible for directing the student's writing endeavors. Prerequisite: $2000-$ level Writing course and approval of a thesis director and committee. (3)

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## XAVIER UNIVERSITY ACADEMIC CALENDAR

FALL SEMESTER- 2004

| Faculty Institute | August 17 |
| :---: | :---: |
| Registration | August 18-20 |
| Classes Begin | August 23 |
| Last Day for Adding Class or Changing Section | August 25 |
| Labor Day -- Holiday | September 6 |
| Sophomore Competency Tests (Except Speech) | September 11 \& 18 |
| Mass of the Holy Spirit | September 12 |
| SPEECH Competency Test | September 23-25 |
| Last Day to Remove an "I" | October 8 |
| Founder's Day Celebration | October 12 |
| Mid-Semester Evaluations Due | October 12 |
| Comprehensive Examinations for Seniors | November 6 |
| Early Registration for Spring Semester | November 8-12 |
| Last Day to Petition a "W" in a Course (Drop a Course) | November 12 |
| Last Day to Officially Withdraw from Xavier | November 19 |
| Thanksgiving Holidays | November 22-26 |
| Last Class Day Before Final Examinations | December 6 |
| Quiet Day | December 7 |
| Final Examinations | December 8-13 |
| Final Grades Due (Noon) | December 15 |
| SPRING SEMESTER-2005 |  |
| Faculty Institute | January 4 |
| Registration | January 5-6 |
| Classes Begin | January 6 |
| Last Day for Adding Class or Changing Section | January 10 |
| Martin Luther King, Jr. Holiday | January 17 |
| Mardi Gras Holidays | February 7-9 |
| Sophomore Competency Tests (Except Speech) | February 12 \& 19 |
| Last Day to Remove "I' | February 18 |
| SPEECH Competency Test | February 24-26 |
| Mid-Semester Evaluations Due | March 8 |
| Senior Comprehensive Examinations | March 12 |
| Easter Holidays | March 21-25 |
| Early Registration for Fall Semester | April 11-15 |
| Last Day to Petition a "W" in a Course (Drop a Course) | April 15 |
| Last Day to Officially Withdraw from Xavier | April 22 |
| Last Class Day Before Final Examinations | April 25 |
| Quiet Day | April 26 |
| Final Examinations | April 27 - May 2 |
| ALL Final Grades Due (Noon) | May 4 |
| Baccalaureate | May 6 |
| Commencement | May 7 |


| SUMMER SESSION -2005 |  |
| :--- | :--- |
| First Five-Week Session | Second Five-Week Session |
| May 20 | June 24 |
| May 23 | June 27 |
| June $24-25$ | July $29-30$ |

## XAVIER UNIVERSITY ACADEMIC CALENDAR

FALL SEMESTER- 2005

| Faculty Institute | August 16 |
| :---: | :---: |
| Registration | August 17-19 |
| Classes Begin | August 22 |
| Last Day for Adding Class or Changing Section | August 24 |
| Labor Day -- Holiday | September 5 |
| Sophomore Competency Tests (Except Speech) | September 10 \& 17 |
| Mass of the Holy Spirit | September 11 |
| SPEECH Competency Test | September 22-24 |
| Last Day to Remove an "I" | October 7 |
| Founder's Day Celebration | October 11 |
| Mid-Semester Evaluations Due | October 11 |
| Comprehensive Examinations for Seniors | November 5 |
| Early Registration for Spring Semester | November 7-11 |
| Last Day to Petition a "W" in a Course (Drop a Course) | November 11 |
| Last Day to Officially Withdraw from Xavier | November 18 |
| Thanksgiving Holidays | November 21-25 |
| Last Class Day Before Final Examinations | December 5 |
| Quiet Day | December 6 |
| Final Examinations | December 7-12 |
| Final Grades Due (Noon) | December 14 |
| SPRING SEMESTER-2006 |  |
| Faculty Institute | January 10 |
| Registration | January 11-12 |
| Classes Begin | January 12 |
| Martin Luther King, Jr. Holiday | January 16 |
| Last Day for Adding Class or Changing Section | January 17 |
| Sophomore Competency Tests (Except Speech) | February 4 \& 11 |
| SPEECH Competency Test | February 16-18 |
| Last Day to Remove "I" | February 24 |
| Mardi Gras Holidays (Spring Break) | February 27 - March 3 |
| Mid-Semester Evaluations Due | March 14 |
| Comprehensive Examinations for Seniors | March 18 |
| Easter Holidays | April 13-14 |
| Early Registration for Fall Semester | April 17-21 |
| Last Day to Petition a "W" in a Course (Drop a Course) | April 21 |
| Last Day to Officially Withdraw from Xavier | April 28 |
| Last Class Day Before Final Examinations | May 1 |
| Quiet Day | May 2 |
| Final Examinations | May 3-8 |
| ALL Final Grades Due (Noon) | May 10 |
| Baccalaureate | May 12 |
| Commencement | May 13 |

SUMMER SESSION - 2006

## First Five-Week Session Second Five-Week Session

Registration
Classes Begin
Final Examinations

May 26
May 29
June 30 - July 1

June 30
July 3
August 4-5

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## Xavier University

## ACCREDITATION

Xavier University of Louisiana is accredited by the Commission on Colleges of the Southern Association of Colleges and Schools (1866 Southern Lane, Decatur, Georgia 30033-4097: Telephone number 404-679-4501) to award bachelors, masters, and the Doctor of Pharmacy degrees.

Xavier University of Louisiana is also accredited by the Association of Collegiate Business Schools and Program, the National Council for Accreditation of Teacher Education, the State of Louisiana Department of Education, and the National Association of Schools of Music.

APPROVED

American Chemical Society
AFFILIATION
New Orleans Consortium

## MEMBERSHIPS

American Association of Colleges of Teacher Education
American Council on Education
Association of American Colleges
Association of Catholic Colleges and Universities
National Commission on Accrediting
Association of College Unions
United Negro College Fund, Inc.
Catholic Commission on Intellectual and Cultural Affairs
Cooperative College Development Program

## College of Pharmacy

## ACCREDITATION

American Council on Pharmaceutical Education

## MEMBERSHIP

American Association of Colleges of Pharmacy


[^0]:    *See inside front cover.

[^1]:    *Ordinarily students will not register for any of the competency tests until they are eligible for all of them, i.e., they have completed 42 dch and have completed all developmental courses and taken all 1000-level coursework in math, English, and speech communication. Each chairperson, at his/her discretion, may allow students to register for those competency examinations in which 1000 -level coursework has been completed provided the student has earned 42 dch. Students who are enrolled in the Honors in English program may register for the student competency tests without having completed ENGL 2011H.

[^2]:    * Prerequisite IPSC 3020
    ** Prerequisites BIOL 1230, 1240, and labs
    *** Prerequisites CHEM 2210, 2220, BIOL 1230, 1240, and labs
    \# Prerequisites CHEM 2220, 2220/D, 2240L
    "\# Prerequisites 16 hours of Biology AND instructor's permission
    \#\#\# Prerequisites Sophomore Standing in Biology AND instructor's permission
    ${ }^{\wedge}$ Prerequisites BIOL 2010 and lab
    ^^ Prerequisites BIOL 2010, CHEM 2210 or permission of instructor
    ${ }^{+}$Listed in the catalog as Environmental Issues in Christian Perspective, prerequisite 1000-level Theology course

[^3]:    *One hour credit is required; may be taken in either semester.
    **See under "Required and elective courses in the Department."

[^4]:    *One hour credit is required; may be taken in either semester.
    **See under "Required and elective courses in the Department."

[^5]:    *These hours are to be used to fulfill the requirement for certification in General Science, the secondary teaching area.

[^6]:    *Students may NOT enroll in Accounting 1010 until all required remedial courses in mathematics and reading have been successfully completed.

[^7]:    $\overline{* *}$ Chosen from Psychology 1010, Political Science 1010, 1020 or Sociology 1010.

[^8]:    *Students choosing to take Chemistry 3030 must take the prerequisite Mathematics 2070, and should take Chemistry 3040 as one of their Advanced Chemistry Electives.

[^9]:    * The choice of biology electives must conform to the following two guidelines:

    1. Total biology hours must be at least 22, including General Biology I-II.
    2. All four advanced biology electives must come from groups A and B below. At least one course must be taken from each of the two groups.
    Group A: BIOL 3350/3350L (Anatomy and Physiology); BIOL 3160/3160L (Embryology), BIOL 4111/4111L (Histology); BIOL 4091/4091L (Comparative Vertebrate Anatomy).
    Group B: BIOL 2010/2010L (Microbiology), BIOL 3070/3070L (Immunology), BIOL 3091/3091L (Cell Biology), BIOL 3110/3110L (Genetics), BIOL 3250 (Microbial Physiology) BIOL 4250/4250L (Molecular Genetics).
    ** Philosophy 2400 is recommended for students planning a career in the health professions; Philosophy 3250 is recommended for those planning a career in research.
[^10]:    * Environmental Science elective may be chosen from any of the MAR designated courses (courses offered through the Gulf Coast Research Laboratories; note that not all courses are available all the time), CHEM 4093 (Undergraduate Environmental Research - a second semester can be taken for academic credit), or Geology (available through Tulane University).

[^11]:    * To complete this requirement, students may choose one of the following: MSCM 2580, MSCM 3101, MSCM 3650, MSCM 3831, MSCM 4131, 4132, 4133, MSCM 4400, or MSCM 4520.
    **To complete this requirement, students may choose one of the following: Internship (MSCM 4410), 3 semester hours of P.R. Practicum (MSCM 2007, 3007, 4007), 3 semester hours of Newspaper Practicum (MSCM 2008, 3008, 4008), or 3 semester hours of Broadcast Practicum (MSCM 2009, 3009, 4009).


    ## SUMMARY

    ## Semester Hours

    African American Studies 3
    English 9
    Fine Arts 3
    Foreign Language 6
    History 6
    Mass Communication 39
    Mathematics 3
    Natural Sciences 6

    Philosophy 6
    Physical Education 1
    Social Sciences 6
    Speech Communication 9
    Theology 6
    Free Electives 8
    Minor 18
    Total Semester Hours $\quad \overline{129}$

[^12]:    * All 12 hours of science must be courses designed for science and engineering majors. The required 12 hours must include a two-semester sequence. The Physics sequence PHYS 11212111 is recommended.
    ** A Computer Science elective must be a Computer Science course at the 3000 level or above. Of the six hours of required Computer Science electives, no more than three hours can be earned from Independent Study, Summer Internship, and Summer Undergraduate Research courses.

[^13]:    *These hours are to be used to fulfill the requirement for certification in General Science, the secondary teaching area.

[^14]:    *Students must take either Theology 1100 or 1120.

[^15]:    *For the certification in the secondary teaching area of Biology, Chemistry, or Physics, all 19 hours (Natural Science and Secondary Teaching Area) must be in the respective discipline.

[^16]:    *Students must take either Theology 1100 or 1120
    **Students must take one of the following: THEO 2002, 2021, 2022, 2100, 2200, 2410, 2440, 2600, 3060, 3200, 3300, 3370, 3800, 38750.

[^17]:    *Mathematics elective must be mathematics or statistics course(s) at the 2000-level or above.

[^18]:    *For the certification in the secondary teaching area of Biology, Chemistry, or Physics, all 19 hours (Natural Science and Secondary Teaching Area) must be in the respective discipline.

[^19]:    *To be chosen from one of the following: PSCI 1010 or 1020 or SOCI 1010 or ECON 1030, 2010, or 2020

[^20]:    *MATH 1020 recommended.
    **PHIL 3190 (Legal Reasoning), PHIL 3260 (Philosophy of Law), and Phil 4500 (Law and Humanities) are recommended for pre-law students.

[^21]:    * Open to business majors as a first business course only. Business minors cannot use course as a Business Elective.

