1974

1974-1976 Xavier University College of Arts and Sciences, College of Business Administration, The College of Continuing Education, Graduate School Course Catalog

Xavier University, Cincinnati, OH

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Suggestions for Obtaining Information

Requests for information should be directed to the officer indicated, Xavier University, Victory Parkway, Cincinnati, Ohio 45207.

Telephone: (Area 513) 745-3000

Admission blanks and entrance requirements:
   Director of Admissions

Alumni affairs:
   Executive Director, X. U. Alumni Association

Bulletins and catalogues (undergraduate):
   Director of Admissions

Bulletins and catalogues (graduate):
   Dean of the Graduate School

College of Continuing Education:
   Dean of the College of Continuing Education

For part-time and after graduation placement:
   Director of Placement

Freshman interests:
   The Associate Dean, College of Arts and Sciences, or the Associate Dean, College of Business Administration

Graduate study:
   Dean of the Graduate School

Guidance Center:
   Director of Guidance

Honors Course:
   Director of the Honors Course

Housing on campus:
   Director of Student Housing

Refunds:
   The Bursar

Reservation fees:
   Director of Admissions

Room reservations:
   Director of Housing

Student health:
   Chairman of Student Health Service

Summer Sessions information:
   Dean of Summer Sessions

Teachers' certification requirements:
   Chairman of the Department of Education

Transcripts and certificates of honorable dismissal:
   The Registrar

Tuition and payment of bills:
   The Bursar

Veterans' education:
   Director of Veterans' Education

Catalogue 1974-1976

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

Victory Parkway, Cincinnati, Ohio (Area 513) 745-3000
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The University

History

Xavier University was founded in 1831 as a literary institute by Edward Dominic Fenwick, of the Order of Preachers, who was the first Bishop of the Diocese of Cincinnati. He called the school The Athenaeum and erected buildings on Sycamore Street in downtown Cincinnati.

In 1840, his successor, Bishop John Baptist Purcell, invited the Jesuits to take over the administration of the school. They arrived on October 1, 1840, and began first classes on October 17. The Jesuits changed the name to Saint Xavier College. In 1919 the College moved to the present site on Victory Parkway in Evanston-Avondale. In 1930 the name was again changed, this time to Xavier University. Xavier University instituted co-education in the College Arts and Science and in the College of Business Administration in 1970.

Objectives of Xavier University

The general purpose for which Xavier University exists is to encourage and assist its members, both faculty and students, to seek and value truth, to preserve and disseminate it, and to follow the dictates of its wisdom in their lives. As a Catholic institution, the University has a hierarchy of values. The human and spiritual are more important than material values. At the summit are supernatural ideals.

The University strives to foster conditions favorable for intellectual leadership. To this end it strives to impart a superior body of knowledge to its students and to help them acquire power to think clearly and penetratingly. The University wants its graduates to be literate, persons of good taste, frequent and familiar in the use of books, alert, and retentive of significant ideas. These ideals are promoted by curricular and co-curricular activities that contribute to the intellectual, the religious, the moral, and the physical enrichment of its students.

Along with general education, the University provides for concentration in special areas of learning. To the extent consonant with its resources, Xavier University fosters scholarly investigation and creative ability so that its members may contribute to mankind’s quest for the fullness of truth. Its philosophy of education shapes and directs the curricula and the educational methods of Xavier University. The various programs, those in the natural sciences, business administration and pre-professional education, no less than those in the humanities, give the student a core of required, broadly educative courses so that concentration on special objectives is carried on in the context of liberal education.

In fine, Xavier University regards the development of the intellectual abilities of its students in their pursuit of truth as its specific, primary responsibility. And it sees itself sharing with the Church, the family, and other social institutions the responsibility for developing the other characteristics of the “true and perfect Christian”—strong moral character, intelligent appreciation of beauty, sound physical health, and appropriate social attitudes and habits. Jesuit education thus prepares its students for eternity as well as for time; for life as well as for vocation.

The College of Arts and Sciences

The College of Arts and Sciences has been traditionally that part of any Jesuit University which most contributes to the Jesuit ideals in higher education. The College in each of its disciplines is convinced of the value of a liberal education, the mark of which is, it has been said, “a combination of skill in analysis and judgment with informed human concern.” The College does not, therefore, regard
its only role, or even chief role, as the preparation of students for graduate and professional schools. Its goal is to produce this skill in analysis and judgment, this knowledge concerning human things as the substance of its education. The College agrees in emphasizing the notion of concern, which notion implies as well the imparting of a hierarchy of values. This hierarchy distinguishes the liberal education offered at one college from that obtainable at another. Xavier's College of Arts and Sciences believes that it has something distinctive—something not possessed by non-Catholic and non-Jesuit colleges of Arts and Sciences. If it did not, the College probably would not survive and probably should not survive.

What are its distinctive features? There is, first of all, the conviction that God has a central place in the universe and in the activities of men, that final judgments on human affairs cannot be made without reference to God. There is, secondly, the conviction that a valid objective standard of morality is obtainable by human reason. There is, thirdly, a basic optimism concerning human affairs—an optimism based on the firm belief in God's love for the human race, in the consequent value of the human person, and in the meaningfulness of life. In traditional Jesuit education, eloquencia was given strong emphasis. The College will continue to stress excellence in communication in all departments. What will be communicated is not simply communication itself, but its belief, its convictions, its balanced worldview, its desire to understand divine and human things more completely and to stress the need of basing all activity on this understanding.

In common with other colleges which offer a truly liberal education, the College will continue to stress the knowledge of human activity in the past, both within and without the Western Cultural tradition, to furnish a frame of reference for judging the wisdom of present and future actions. Otherwise "informed human concern" would hardly be properly informed.

The College of Business Administration

After operating its business departments for many years as a part of the College of Arts and Sciences, the University established the College of Business Administration on September 1, 1961.

The College of Business Administration conforms to the general principles and objectives of the University in particular, and of Jesuit education in general. It recognizes the indispensability of cultural subjects which motivate the higher powers of the mind and spell the difference between an educated man and a mere technician.

The objectives, therefore, of the College of Business Administration are threefold: 1. To develop the cultural, intellectual, and the moral qualities of the student; 2. To provide a solid undergraduate base for those students who wish to continue study at the graduate level; 3. To prepare the student in the area of business so that he may be more qualified to accept a position of responsibility and leadership in the business community.

The College of Continuing Education

The purpose of the College of Continuing Education is to aid adults of Greater Cincinnati in obtaining a more advanced education by means of courses of cultural and practical value. This division renders particular service to those who wish to carry college work toward a degree while working during the day and to those who wish to pursue subjects which will better fit them for special services or vocations. In addition to the liberal arts courses, business, technical and vocational courses are offered. All courses are open to men and women. Besides the individual course offerings, there are groupings and programs of courses leading to certificates, diplomas, and degrees, including state requirements for teacher certification.

The College of Continuing Education also offers two-year associate degree programs in a number of fields. Students should consult the special publications of the College for information about these two-year associate degree programs. Special note is made about the Associate Degree Program in Radiologic Technology which the College offers in conjunction with various local hospitals in the Greater Cincinnati area. Additionally, degree programs in art and music are available through a cooperative program between Xavier University and Edgecliff College.

The Graduate School

The Graduate School has offered programs leading to graduate degrees since 1947. Degrees conferred are the Master of Arts, the Master of Science, the Master of Education, and the Master of Business Administration. Information about the Graduate School follows the undergraduate section of this Catalogue.

Accreditation

The University is accredited by the North Central Association of Colleges and Secondary Schools as a degree-granting institution, and is approved by the Department of Education of the State of Ohio and by the Board of Regents of the University of the State of New York. It is also approved by the American Chemical Society for its training in chemistry. The Graduate Program in Hospital and Health Administration is accredited by the Accrediting Commission on Graduate Education for Hospital Administration.

Institutional Memberships

The University maintains membership in these educational and learned organizations:

- Association of Jesuit Colleges and Universities
- The National Catholic Educational Association
- The North Central Association of Colleges and Secondary Schools
- The North Central Conference of Summer School Directors
- The National Association of College and University Summer Session
- The American Council on Education
- The Association of American Colleges
- The Association of Urban Universities
- The National Education Association
- The Ohio College Association
- The Association of University Evening Colleges
- The American College Public Relations Association
- The American Catholic Historical Society
- The American Catholic Philosophical Association
- The American Historical Association
- The United States Catholic Historical Society
- The Mississippi Valley Historical Association
- The Catholic Library Association
- The American Library Association
- The American Association of Collegiate Registrars
- The Association of Ohio College Registrars
- The National Association of Student Personnel Administrators
- The American Association of Colleges for Teacher Education
- The American Mathematical Society
- The Association of College Unions
- The National Association of College and University Food Services
- The National Association of College Stores
- The United States Field Artillery Association
- The American Political Science Association
- The American Association of Collegiate Schools of Business Administration
- The American Association of University Women
- The Association of University Programs in Health Administration
- The National Association of Women Deans and Counsellors
- The Association of Independent Colleges and Universities of Ohio
University Services, Financial Aid, and Organizations

Religious Welfare

Xavier University uses various means of promoting a sincere Catholic way of living in its students. This influence permeates classroom and general campus atmosphere. From the celebration of Mass to a visit in Bellarmine Chapel, student life is vibrant with that simple devotion characteristic of Christian principles.

Each year the Spiritual Exercises of Saint Ignatius Loyola are given for Catholic students. Attendance at the exercises is encouraged for students in the undergraduate day colleges.

Student Health Service

The Student Health Service is the organization through which the University fulfills its obligation to its students for the care of their physical and mental health and at the same time assures itself and the families of these students that a reasonable supervision is being exercised by the institution for the maintenance of physical and mental fitness of the student.

Participation in the Student Health Service is obligatory for day undergraduates. Evening and graduate students may use some of the services.

Health examinations are required for all day students as part of their entrance requirements to Xavier University. Forms for this examination are to be filled out by the family physician and must be in the hands of the medical director of the University before the beginning of the semester in which the applicant enters the University.

Student Guidance

The University strives to give students as much individual attention as possible. Each student is assigned a faculty advisor whose duty it is to assist the student in the planning of his course. The student is expected to have at least one conference in each semester with the advisor.

Counselling Center

The Center provides psychological services for students of Xavier University. It is equipped to handle behavioral problems in a variety of areas such as the choice of courses, of a degree, or of an occupation; measurement of aptitudes, interests, abilities, etc.; failures in school or at work; difficulties in reading and unsatisfactory patterns of living. Psychological testing and vocational guidance, psychiatric evaluation, counselling, and psychotherapy are the fundamental services. Undergraduate full-time students are provided the testing, counselling, and vocational guidance services free, except for a $5.00 test materials' replacement charge.

Center of University and Urban Affairs

The establishment of the Center of University and Urban Affairs was recommended by the ad hoc Planning and Development Committee in 1969. It is intended to increase concern for pressing community issues—civil, economic, social, cultural, and educational. It will recruit and aid minority and disadvantaged students, develop programs for better understanding of their problems by the University Community, and assist in efforts to recruit minority group faculty and graduate assistants.

The Placement Service

The Placement Service, located in the University Center, offers assistance to seniors, graduate students, and alumni in finding suitable employment commensurate with their education.

The Service arranges for representatives of companies and government agencies to interview students on campus, and aids as much as possible in arranging part-time and summer employment to meet the student's financial needs or to provide suitable work experience for his proper development.

Student Housing

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

Out-of-town students must live on campus. Exceptions to this regulation are granted by the Director of Housing.

Room reservations for the residence halls will not be held through the summer for students who are on academic probation at the end of the preceding spring term.

Library

The University Library, housed in the Walter Seton Schmidt Library Building since 1926, was moved into the new McDonald Memorial Library during 1966.

The Library contains many interesting and valuable collections among which are the Williams Bible Collection; the original manuscripts of Francis J. Finn, S.J.; a fourteenth century vellum manuscript of the sermons of St. John Chrysostom; a fifteenth century antiphonary; several incunabula; letters of Andrew Jackson, Martin Van Buren, and others. Microfilm and microcard readers are available. The total numbers of volumes is over 200,000.

The University has been a constant beneficiary of friends whose contributions have increased the number of volumes. Since 1925 the Booklovers Association has been outstanding in its gifts and contributions.

Bookstore

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

Art Gallery

The Fine Arts Gallery, located in the Carriage House of Marion Hall, is intended to be a living facility—one that will present works of art available to the University through loans, gifts, and travelling exhibitions. It was opened in the summer of 1966.

Laboratories

The Department of Biology, occupying Albers Hall, is well equipped for teaching undergraduate students the biological sciences. General laboratories are outfitted with compound and stereoscopic microscopes, ample slides and specimens, and fresh- and sea-water aquaria. Other laboratories are maintained for study in anatomy and development, behavior and physiology, plant biology, genetics, microbiology, and ecology. Advanced students use research space at the Albers Biological labora-
tories, which are particularly well suited for investigations dealing with the electrical activity of the senses, the nervous system, and the hearts of various animals.

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

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

The seismology laboratory, for research in seismology, at present uses some of the facilities of the physics laboratories in addition to office, library and dark room in Fisher Lodge. For the purpose of advancing the science of seismology, Xavier University maintains a first class station and observatory. The station is located on a farm approximately sixteen miles east of the University. It is equipped with three Benioff short-period seismographs that are kept in continuous operation. In addition, an instrument vault situated in the basement of the Schmidt Building serves experimental purposes.

The chemistry laboratories are located in the Logan Chemistry Building. Five large laboratories are devoted to physical, organic, analytical, general inorganic chemistry, and graduate research. There are smaller laboratories for biochemistry, instrumental analysis, and radiochemistry.

The Department of Military Science is adequately equipped for the conduct of both field work and classroom instruction. Since Xavier’s ROTC unit specializes in Field Artillery, 105mm howitzers and associated fire direction equipment are on hand. The Department has available models of military equipment for training in map reading, military communications, rifle marksmanship, and a terrain model. Indoor instruction is augmented and facilitated by appropriate motion pictures, slides, and graphic training aids. Other facilities include a sixteen-point small-bore firing range, a military affiliated radio station, and an indoor drill and training area in the Armory. Selected senior cadets may participate in the Army Flight Training Program conducted at a civilian Flight Training School.

The Geoghegan Memorial Language Laboratory, which was given by Miss Marie Geoghegan as a memorial to her three brothers, William A. Geoghegan, Thomas M. Geoghegan, and J. Paul Geoghegan, is located on the second floor of Alumni Hall. Equipped with thirty booths and eleven program sources, it provides supplementary drill for students who are taking any of the modern foreign languages.

Computer Center

The University Computer Center, located in the Walter Seton Schmidt Building, provides a complete range of services connected with the analysis and processing of data by means of electronic computers. These services, available to all branches of the University, may be categorized as services meeting University needs in the areas of education, research, and administration.

Faculty and student researchers are provided analysis, programming, and operating services in support of their projects by the Center. The high speed and accuracy of the computers are invaluable for research involving complex and extended computations.

The Center assists the administrative offices of the University in processing data. The Treasurer’s Office, the Registrar’s Office and the Development Office particularly make extensive use of the services of the Center.

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**SCHOLARSHIPS—FINANCIAL AID**

**Types of Aid**

1. Scholarships.
2. Student Loans.
4. The College Work-Study Program.
5. Part-Time Jobs.
7. Law Enforcement Education Program.
8. Ohio Instructional Grants Program.

**Scholarships**

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

1. For Undergraduate, Day Division, Academic Scholarships: The Director of Placement and Student Aid.
2. For Honors Course Scholarships: The Director of the Honors Course.
3. For The College of Continuing Education Scholarships: The Dean, the College of Continuing Education.
4. For Graduate Scholarships: The Dean, Graduate School.
5. For Reserve Officer Training Corps Scholarships: The Professor of Military Science.
6. For Athletic Grants-in-aid: The Director of Athletics.
7. For Band Scholarships: The Director, Xavier University Band.

The General Motors Scholarship

Xavier participates in the General Motors College Scholarship Plan. The amount awarded under this plan ranges from an honorary award of $2,000.00 up to an award of $2,000.00 per year, depending upon the need of the individual. This scholarship is administered by the University.

Honors Course Scholarships

Scholarships for study in the Honors Course are offered to students who have maintained an excellent academic standing in high school. High school Latin or Greek is a prerequisite. The number of freshmen in this course is limited. For this reason the funds set aside for scholarships are normally adequate to provide partial or full tuition and, in some cases, help beyond tuition to a deserving student. The amount of the scholarship is determined partly by the academic record and partly by the real need of the applicant.

Xavier Achievement Scholarships

A limited number of scholarships are available for superior students providing a minimum of full tuition and fees. The academic requirement is 3.0 in first year, and 3.25 thereafter.

University Tuition Scholarships

The University provides a limited number of four-year tuition assistance scholarships for black students. These are awarded at the discretion of the Scholarship
Committee. Stipends are determined in accordance with Parents' Confidential Statement.

**ROTC Scholarships**

The Department of the Army annually awards one-year, two-year, three-year, and four-year ROTC Scholarships to outstanding students. Information and applications for the four-year scholarships are submitted by high school senior candidates through the "Army ROTC, Fort Monroe, Va. 23351." For additional information, high school seniors should contact their guidance counselors or the Xavier University Military Department. Annually one-year, two-year, and three-year scholarships may be awarded to members of the Xavier University junior, sophomore, and freshman ROTC classes respectively. All scholarships cover the cost of books, tuition, and fees, plus a monthly $100 subsistence allowance for not more than ten months of the school year.

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

**Presidential Scholarships for Greater Cincinnati**

A minimum of twelve scholarships, which may amount to half-tuition, are awarded to graduates of high schools in the Greater Cincinnati area. The Greater Cincinnati area includes Hamilton, Butler, Clermont, and Warren counties of Ohio; Boone, Campbell, and Kenton counties of Kentucky; and Dearborn county of Indiana. These scholarships are awarded at the discretion of the Committee on Scholarships at Xavier University on the basis of scholastic excellence and financial need.

**Presidential Scholarships Outside Greater Cincinnati**

A minimum of twelve scholarships, which may amount to half-tuition, are awarded to graduates of high schools outside the Greater Cincinnati area. The scholarships are awarded at the discretion of the Committee on Scholarships at Xavier University on the basis of scholastic excellence and financial need.

**Upperclassmen Scholarships**

Full-time students who have been on the Dean's List for three succeeding semesters at Xavier University are eligible to apply for financial assistance. Applications should be submitted to the Director of Placement and Student Aid, Xavier University, no later than April 1. Applicants are required to provide a Parents' Confidential Statement processed by the College Scholarship Service.

**Instructions for All Applicants**

Applicants for scholarships shall have completed all the requirements for admission to the University before being considered for a scholarship. For further information concerning scholarship procedures, write to The Director of Placement and Student Aid, Xavier University.

**Scholarship Regulations**

1. Scholarships, other than the Xavier Achievement scholarships, apply to tuition only and do not excuse the designee or holder from payment of other fees.

2. Scholarships must be accepted for the year or years they are awarded. They may not be transferred by the holder and may not be resumed at will after having been relinquished.

3. The scholarship will be awarded for one year and will be renewable in favor of the holder for each successive semester of his four-year college period.

4. Holders of honor scholarships must maintain a quality-point ratio of at least 2.5 in the freshman year, and 3.0 in the sophomore, junior, and senior years. (Xavier Achievement Scholarships are an exception to this regulation.)

5. The award in all cases is made at the discretion of the Scholarship Committee of Xavier University.

6. Holders of honor scholarships are expected to participate in the co-curricular activities of the University.

**Source of Scholarship Funds**

The permanent scholarships that have been generously given to Xavier University in the past are listed below. Income from these scholarships is increased each year by gifts of annual scholarships. In addition, the University uses funds from its current income to make up the balance of these awards.

**Perpetual Scholarships**

*Anonymous, $70,000*

A scholarship fund—the gift of a friend of the University.

*William F. Poland, S.J., Fund, about 1906, approximately $115,000*

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

*Elizabeth Sullivan Scholarship, 1924, $3,000*

*Mary B. Shannon Scholarship Fund, 1925, $13,334*

*Worpenberg Family Scholarship, $5,000*

This is a partial scholarship to be awarded preferably to a graduate of Saint Xavier High School.

*Rev. James D. Foley, S.J., Scholarship (in his honor), $2,000*

*Mary Mohlenhoff Scholarship (in memory), $2,000*

*Passion Play Scholarship, 1928, $500*

*The Ryan Sisters Scholarship, $3,000*

*Siedenberg-King Scholarship, $2,000*

*Margaret Shea Scholarship, 1937, $3,500*

*Archbishop McNicholas Memorial Scholarship, 1940, $5,000*

*Mrs. F. W. Hinkle Memorial Scholarship, 1940, $5,000*

*The Ryan Sisters Memorial Scholarship, 1940, $5,000*

*Saint Xavier Church, Memorial Scholarship, 1940, $5,000*

The four preceding scholarships were given on the occasion of the Centennial Observance of the foundation of the Society of Jesus and the Centennial of the Jesuits in Cincinnati.

*Rev. James McCarthy, S.J., Scholarship, 1942, $3,468*

This partial scholarship is to be given to a needy and deserving student in honor of Fr. James McCarthy, S.J. It was donated by the will of Mrs. Clara Pressler.
Scholarships

Xavier Student Council, 1942, $2,087.47
The proceeds from a World War II metal scrap drive conducted by the Student Council were donated for this scholarship.

Bernard H. Ludwig Scholarship, 1948, $2,000
A partial scholarship to be given preferably to some member of Saint Augustine's Parish, to be selected by the pastor of Saint Augustine's, Cincinnati.

Charles A. Clagens Scholarship, 1949, $3,576
A partial scholarship for any worthy poor student, preference to be given to a student of Saint Peter's Roman Catholic School, New Richmond, Ohio.

Blessed Virgin Mary Scholarship, $5,000
A partial scholarship established by an anonymous donor in honor of the Blessed Virgin Mary.

Rev. Albert Dierkes, S.J., Scholarship, $6,400
A partial scholarship established by an anonymous donor in memory of Fr. Dierkes.

Fred Tuke Scholarship, 1951, $10,000
A donation by Mr. Fred Tuke provided a full tuition scholarship.

Walter A. and George McDonald Fund
This fund, established in 1960 to honor Mr. and Mrs. Andrew J. McDonald provides income for a graduate assistant in the Department of Chemistry.

Walter A. and George McDonald Scholarship, $1,000
A partial scholarship to be given preferably to some member of the Class of 1931.

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

Lillian W. Ochs, $250
Class of 1931 Scholarship, 1956, $7,500
A half-tuition scholarship donated by the Class of 1931 on the occasion of the twenty-fifth anniversary of their graduation.

The Stephens L. and Margaret J. Blakely Scholarship, 1958
A partial tuition scholarship maintained by the annual contribution of Mr. John R. Blakely and Mrs. Jane B. Woodrough in honor of their parents. The scholarship is awarded to a pre-law student from Kenton County, Kentucky.

The Richard A. Jones Journalism Scholarship, 1960, $19,161.83
A bequest from the estate of Mr. and Mrs. Alvo S. Snodgrass to the College of Continuing Education in memory of her father, Cincinnati newspaperman.

The Jesse K. Dunn Memorial Scholarship Fund, 1959, $7,000
A partial scholarship donated in memory of the late Mr. and Mrs. J. A. Dunn.

The Frederick A. Hauck Physics Research Scholarship, 1962, $1,500 annually
This is an award to a student (or students) selected by the Department of Physics to pursue, on the undergraduate level, research projects commensurate with his (or their) intellectual promise.

The Matthew Ryan Family Scholarship, 1964, $10,000
A scholarship to be awarded at the discretion of the Scholarship Committee.

The Fredin Memorial Scholarships, 1964
These are annual awards for one or more students to pursue their studies in French in France. Established from the bequest of Mlle. Aline Fredin in memory of her parents. See Modern Languages, Foreign Language FR 298.

The Mr. and Mrs. Theodore H. Oppenheim Scholarship Fund, 1966
A scholarship to be awarded at the discretion of the Scholarship Committee.

The Wilson J. (Woody) Sander Memorial Scholarship Fund, 1967, $15,700
This Scholarship Fund honors the memory of the late Mr. Sander, '34, whose service to his Alma Mater included chairmanships of the Athletic Board and the Alumni Living Endowment Fund.

The William V. Masterson, '41, Memorial Scholarship, $3,565
This memorial provides tuition assistance to an outstanding student in marketing for his senior year.

The Raymond L. Buse Memorial Scholarship Fund, $27,500
This memorial was established to perpetuate the memory of Raymond L. Buse, Sr., with the income to be awarded to a student selected by the Scholarship Committee.

The Reverend Paul L. O'Connor, S.J., Scholarship, 1971, $40,000
This scholarship was provided by an anonymous donor who wished to honor the President of Xavier University. It is intended that the income will assist worthy students selected by the Scholarship Committee.

The James H. and Marye S. Curran Memorial Scholarship Fund, 1971, $31,187.50
This scholarship was established in 1971 in accordance with the will of Mr. James H. Curran, member of the class of 1927. The income from this fund is to be used to finance a presidential scholarship designated as the James H. and Marye S. Curran Scholarship.

The Foster G. McGaw Scholarship from the Association of University Programs in Hospital Administration and the American College of Hospital Administrators is awarded by the program each year to an entering graduate student who exhibits potential for making a significant contribution to the hospital administration profession. The scholarship pays $1,000 toward the student's expenses.

The Mary Manning Walsh Scholarship Fund, $1,000,000
The Mary Manning Walsh Scholarship Fund was established in 1968 by her husband, the late Thomas J. Walsh, with a gift in excess of $1,000,000.00. The income from this Fund is to be used for scholarships for worthy students unable to pay entirely for their education.

Edward F. Macke '98 Graduate Scholarship Endowment Fund, $50,000
The Edward F. Macke '98 Graduate Scholarship Endowment Fund provides scholarship assistance to graduate students at Xavier University. This Fund was established in 1969 with a gift of approximately $50,000.00 from the late Edward F. Macke.

The Fred F. Mackentepe Scholarship, 1971, $25,000
A bequest from the estate of Fred F. Mackentepe for scholarship use in the donor's name. The scholarship grants are awarded at the discretion of the Scholarship Committee.

The Reverend William P. Hetherington, S.J., Memorial Scholarship Fund, 1971
This Scholarship Fund honors the memory of the late Father Hetherington. The fund was initiated by the Booklovers Association, of which Father Hetherington was Moderator.

The Robert T. Rice, Jr., Memorial Scholarship Fund
This Fund honors the memory of the late Robert T. Rice, Jr., Class of 1969, who was killed in the line of duty in Viet Nam. The Fund was created by the family and friends.

The Ralph W. Chambers Memorial Scholarship Fund
This Fund honors the memory of the late Ralph W. Chambers, Class of 1948. The Fund was created by the family and friends.
in an eligible Ohio institution of higher education. The amount is based upon the adjusted effective income of the family, the number of dependent children in the family, and the total instructional charges of the educational institution. To be eligible, a student must be a resident of Ohio. For further information contact the Director of Placement and Student Aid, Xavier University.

**National Direct Student Loan**

The National Direct Student Loan Program is a continuation of the National Defense Student Loan Program authorized by Title II of the National Defense Education Act of 1958. Recipients are selected by the school itself.

The borrower must be enrolled as at least a half-time student in need of financial aid for his education, and judged capable of maintaining good academic standing.

Repayments begin on a quarterly basis within nine months after the borrower ceases to be at least a half-time student. These loans carry a 3 percent interest on the unpaid balance during the repayment period. The loan must be repaid in accord with the terms specified in the promissory note. Under no conditions may the repayment period exceed ten years. For further details, communicate with the Director of Placement and Student Aid, Xavier University.

**The College Work-Study Program**

In the Economic Opportunity Act of 1964, Government funds are made available to colleges and universities for part-time work, usually on campus. Applicants should be nationals (citizens) in need of the earnings to meet their college expenses, should have good academic standing, and should carry a normal (full-time) number of academic course hours. Under this program students may work up to 15 hours per week when their classes are in session and not more than 40 hours per week in vacation periods or during the summer when not enrolled in classes. Whenever possible, Work-Study jobs will be co-aligned with the student’s course of studies to give the most valuable educational experience.

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

**Supplemental Educational Opportunity Grants**

The United States Office of Education provides funds for grants from $200 to $1,500 a year to worthy undergraduate students in exceptional financial need. Grants are renewable for four years. The amount awarded to a student must be matched by some other type of financial aid provided either by the University, an outside scholarship, or other source.

Further information may be obtained from the Director of Placement and Student Aid, Xavier University.

**Basic Education Opportunity Grants**

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

The maximum award a student may receive is $1,400 minus the amount the student and his or her family are expected to contribute toward the cost of the student’s education. Determination of the family contribution is not made by the educational institution.

Further information may be obtained from the Director of Placement and Student Aid, Xavier University.
Awards

The American Institute of Chemists' Medal. A gold medal is awarded to a senior majoring in chemistry for outstanding scholarship.

The Ervin A. Stadler Accounting Award. An award of $100 is offered by Mr. Ervin A. Stadler, resident partner of Haskins and Sells, to the student majoring in accounting who attains the highest cumulative average in scholarship and accounting at the completion of his junior year and is a member of the Accounting Society.

Financial Executives Institute, Cincinnati Chapter, Award. A cash award of $50 is given to the senior majoring in accounting whose scholastic standing, leadership, and participation in co-curricular activities are exceptional.

The Dr. J. T. Clear Biology Key. This key, founded by Dr. J. T. Clear, is awarded annually to the senior who has completed his major in the Department of Biology with the highest distinction.

The Dorst Chemistry Key. This key, the gift of Arno A. Dorst, is awarded annually to the senior who has completed his major in the Department of Chemistry with the highest distinction.

Craig Menderson Memorial Economics Award. This award of a gold key and $50 was established in 1966 in memory of fifteen year old Craig W. Menderson. It is given to the senior in economics who best demonstrates intellect, maturity, integrity, spirituality, and personality.

The Alumnae English Prize. This prize is given to the outstanding woman undergraduate majoring in English in any college of the University.

The Sweeney English Award. A cash prize of $25.00 is given in memory of Thomas and Anthony Sweeney to the student completing his major in English with the highest distinction.

The Mermaid Tavern Prize Key. A gold key is offered by Mr. Anthony C. Elsaesser, '12, to the Tavern member meritig highest distinction in literary composition and criticism. Mr. Elsaesser has established an endowment for this key in perpetuity.

Athenaeum Prize Keys. Two gold keys are given to authors of the best contributions by undergraduate students to the Athenaeum literary magazine as judged by members of the Department of English.

Xavier Order of Military Merit Fourragere. This military decoration is presented to ROTC Advanced Course students as an honor for military attainment.

The American Marketing Association Award, Cincinnati Chapter. An award is made to the senior who has been outstanding in the study of marketing.

NFBA Foundation, Inc. Scholarship. The National Food Brokers Association annual award of $400 is given to a junior or senior majoring in marketing. It is presented to a student interested in making a career in the food industry.

The Kramer-Miller Mathematics Award. An award of $50 is made to the senior majoring in mathematics who has distinguished himself in his studies and has shown outstanding progress in mathematics.

The Richard J. Wehrmeyer—Pi Mu Epsilon Mathematics Award. A cash award is presented by the Mathematics Department and the Ohio Theta Chapter of Pi Mu Epsilon, National honorary mathematics fraternity, to the student in mathematics exhibiting excellence in problem solving competition. The award honors the memory of Richard J. Wehrmeyer, Class of 1970.

The Robert F. Cissell Memorial Fund Award. An annual cash award of $100 was established in 1973 to honor the memory of Robert F. Cissell, a member of the Mathematics faculty for twenty-eight years. The award is made to the undergraduate student who writes a Mathematical paper in the area of Quantitative Economics judged best by the Mathematics Department.

Xavier University Rifle and Pistol Awards. Trophies are presented for high team average and 2nd high average.

Army ROTC awards from following sources:

Reserve Officers Association Award.

Military Order of the World Wars Awards.

Association of the United States Army Award.

Veterans of Foreign Wars Award.

American Legion Awards.

The Combined Councils, Knights of Columbus Award.

Department of the Army Superior Cadet Decoration.

Xavier University President's Trophy.

Lieutenant Colonel Edward S. Maj Award.

Lieutenant Robert T. Rice Award.

American Veterans of World War II Award.

Sons of the American Revolution Award.

Daughters of Founders and Patriots of America Award.

Republic of India Visitation Award.

Legion of Valor Bronze Cross for Achievement.

Colonel Charles F. Williams' Scholarship and Prize—$200.00 and Medallion.

The German-American Citizens' League Award. An award of $25.00 is offered by the American Citizens' League of Cincinnati to the student who attains the highest scholastic average in German for the academic year.

The Heidelberg Club German Award. An award of books is given to the student in the upper division courses who attains the highest score in a test in German administered by the Department of Modern Languages.

The Francis I. Hamel Prize in Psychology. A book prize established by Dr. and Mrs. Ignatius A. Hamel in memory of their son, Francis I. Hamel, is awarded to junior majoring or minorining in psychology who has demonstrated excellence in achievement in psychology and who is outstanding in his over-all academic work.

The Comer Memorial Fund Award. A cash award of $25 is given each year by the Cincinnati Chapter of the American Statistical Association to the best student in Statistics.

The Frederick A. Hauck Physics Research Awards. A fund of $1,500 provided annually by Mr. Frederick A. Hauck for research scholarships for undergraduates majoring in Physics.

The Mrs. Magdalena Strobl Link Psychology Award. An award of $50.00 established by Dr. Joseph Link, Jr., in memory of his mother, Magdalena Strobl Link, is given to the best graduating psychology senior. The recipient is selected by the Department of Psychology on the basis of his over-all performance, his performance in psychology, and his achievement on the Graduate Record Examination or the Miller Analogies Test.
The Dr. William J. Topmoeller Theology Medal. A gold medal, founded by Mrs. William J. Topmoeller in memory of her husband, Dr. William J. Topmoeller, M.D., '08, and President of the Xavier Alumni Association '34, is awarded annually to the senior in the Department of Theology with the highest distinction for theological studies.

The Rev. Francis J. Finn, S.J., Medal Award. The Rev. Francis J. Finn, S.J., Medal Award, established by the Xavier University Alumni Association in 1960, perpetuates the memory of the well known author of books for boys. It is presented to a senior who has emulated in an outstanding way the qualities of Father Finn’s fictional heroes—leadership and breadth of interest. Father Finn was a trustee of Xavier University. Since 1925 Xavier teams have been called “The Musketeers,” and the highest honor for any Musketeer athlete is to be named to the Legion of Honor. Both ideas were suggested by Father Finn.

The John Patrick Scully Memorial Award. This award is given by Mr. and Mrs. Lawrence Scully to the undergraduate student of any college at Xavier University writing the best essay on an assigned topic in English or American Literature.

The Joseph A. Verkamp Award. Mr. Joseph A. Verkamp, '07, established an annual award in 1964 of a Greek Lexicon to the student who excels in Greek in the judgment of the Department of Classics.

The Joseph B. Verkamp Medal. Mr. Joseph B. Verkamp, '77, established a gold medal award to the member of the Poland Philopedian Society who has delivered the best speech in the annual public debate of the society.

The Rev. Victor B. Nieporte, S.J., Achievement Award in Theology. A medal and cash award is given annually to a junior who demonstrates outstanding ability in theological studies. The award was established in 1974 by an endowment from the Jane E. and Thomas R. Armstrong Foundation, Inc.

Student Government

Student government is devoted to improvement in the quality of student life. This end is attained through programs, legislation, and effective lobbying. Student government has, however, one even more important goal. It stresses as its top priority the personal development, maturity, and intellectual growth of its members. It aids students in the recognition and acceptance of responsibility and its corresponding duties.

Structures

The Student Senate is the main governing organization of the student body. It is composed of 16 members elected at large by the student body. Eight seats are open for election each December and May.

An Executive Council advises the Student Senate on matters which pertain to their area of responsibility. The Executive Council is comprised of ex officio members including cabinet members, the president of each class, and the presidents of the Commuter Council, the Dormitory Council, and the Afro-American Student Association.

The Dormitory Council provides students residing in University housing a greater voice in the determination of rules and regulations. (The Interdorm Governing Board represents all residence hall students.)

The Commuter Council is a student governmental organization which was created by commuters for commuters and is subordinate to Student Senate.

In addition, each class elects a president, vice-president, and two representatives. These officers are concerned with affairs which have direct effect on their respective classes.

Many students are seated on numerous student government and university committees. Almost 200 students, or nearly 10% of the student body, are directly involved in student government.
Student Organizations

Xavier University provides many forms of student activities and organizations for the purpose of promoting religious, social, academic, and cultural relations among the student body. All organizations of students are under the general supervision of the Dean for Student Development. Approval for meetings and programs must be secured from him directly or through the appointed faculty moderators. With the exception of activities and organizations of a purely religious nature, only such organizations as are free from disciplinary censure and the scholastic censure of probation are eligible for active membership. The University reserves the right to discontinue or moderate any student activity or organization. By means of its committees and agencies the University also has the right to limit the extent and degree of the individual student's participation.

Religious Activity

Students for Christian Community. This organization, formerly known as the Sodality, is affiliated with the International Sodality Movement, headquartered in Rome. The Sodality was established at Xavier in 1840. Today Students for Christian Community offers Catholic students a social program, a spiritual program, participation in Catholic action, and personal counseling.

The Xavier Accounting Society has the objectives of broadening of knowledge and deepening of interest of its members in the field of accounting, the promotion of mutual helpfulness, and the fostering of fellowship in the pursuit of this worthy aim.

Association of Afro-American Students, organized in 1968 at Xavier for Negro students, provides a forum for the exchange of ideas and the formulation of solutions to problems experienced by black people.

Association for Computing Machinery, Organized, November, 1969. The Xavier University Student Chapter is devoted to the free exchange of information regarding the arts and sciences of information processing and to the development of skill in these areas. Membership and associate membership are open to students of Xavier and other area universities and colleges who are interested, although not necessarily proficient in computing.

The Alchemysts Club, an affiliate chapter of the American Chemical Society, further students' interest in chemistry. Together with the chemistry clubs of other Catholic colleges of Greater Cincinnati, it forms the Albertus Magnus Chemistry Club.

The Musketeer Band. The band promotes student interest in music, stimulates spirit at basketball games, gives concerts, and provides music for R.O.T.C. Corps Day formations and special University functions.

The Biology Club, open to students of biology, sponsors a variety of co-curricular activities including field trips and speakers on current topics and careers in the Biological Sciences.

The Xavier University Clef Club makes numerous concert appearances and entertains at University functions.

Economics Club. Undergraduates interested in economics have banded together for further discussion of this subject.

The French Club, le cercle Franaiss de Xavier promotes interest in French affairs and in the history, the literature, the art, and the customs of France.

The Heidelberg Club fosters an interest in the history, culture, and language of the Germanic people.

Organizations for Interracial Awareness brings students together for the betterment of race relations and the awareness within the University community of racial problems.

The Jazz Club presents jazz programs on campus and on the University and other radio stations.

The Marketing Club, open to all Xavier students, sponsors a variety of co-curricular activities including field trips, research and promotion projects, films, and speakers on current topics and career opportunities. An affiliate chapter of the American Marketing Association, the Club participates in student programs of the Cincinnati Chapter, A.M.A.

The University Players stage plays during the academic year, and afford members an opportunity to take part in phases of play production—acting, directing, stagecraft, lighting, and scenic design.

The Mathematics Club promotes scholarly development by interesting its members in pure and applied mathematics.

The Mermaid Tavern, a writers' club of limited membership, promotes the association of graduates and undergraduates actively interested in writing. The Tavernacular, a privately circulated magazine, is issued quarterly.

Henry Knox Battery, Association of the United States Army, is a voluntary association of college students for the purpose of providing members an opportunity to participate in ceremonies and related activities designed to enhance their respect for and devotion to the United States and the U.S. Army. Regular membership is open to all ROTC cadets. Other interested students may join as associate members.

Physics Club, an affiliate chapter of the American Institute of Physics, promotes good fellowship among the physics majors.

The Sales and Advertising Club, is devoted to introducing its members to the world of promotion, i.e., selling and advertising. Representatives from Sales and Marketing Executives of Cincinnati and the Advertisers Club of Cincinnati work closely with the members.

The Xavier Philosophy Club fosters in its members greater interest in philosophical subjects. Meetings are informal and free discussion is encouraged.

The Polish Philodopedian Society, the oldest campus organization, was founded in 1840 for debating-intercollegiate and intramural.

The Psychology Club provides opportunity for students to increase their knowledge of psychology and to participate in extra-curricular work in this field.

The Society for the Advancement of Management. The University Chapter prepares Xavier men for business careers through seminars, conferences, and management development programs.

The Spanish Club encourages its members to learn more about the Iberian language and customs and the literature of Hispanic countries.

The St. Thomas More Pre-Law Society was founded by the Xavier University Pre-Legal Committee for students interested in a career in the legal profession. Its program affords its members, in addition to the guidance of the Pre-Legal Committee, the counsel also of law school deans, professors, and students, of members of the local judiciary and bar, and especially of members of the Natural Law Society.
Stock Market Club is for students interested in gaining practical experience in investments. Stocks are investigated and purchased as a cooperative venture. Speakers from investment counseling firms, brokerage houses, and government agencies are featured.

Student Volunteer Services involve students in volunteer projects at the local level and in such organizations as the Peace Corps, the Papal Volunteers, Extension, and VISTA. The organization works closely with Chabanel House. Projects include tutoring, direction of recreation, trips to Appalachia, and other activities of social and civic significance.

WYXU-FM, a noncommercial, University-owned radio station broadcasts on a frequency of 91.7 mhz. with an ERP of 10 watts. This radio voice of Xavier is student operated.

Social and Service Clubs

The Xavier University Bridge Club has a franchise from The American Contract Bridge League. Its activities include monthly duplicate tournaments, invitational tournaments with other schools, and the sponsorship of bridge classes.

The Cheerleaders organize cheering at games and rallies.

The Dormitory Council consists of representatives of residents of the University halls and promotes the spiritual and social welfare of the dormitory students.

The Flying Club provides students an opportunity to learn to fly. Aircraft and instructors of Victory Aviation, Inc., based at the Hamilton Airport, are available. Intercollegiate flying meets are proposed.

The Fourragers are a co-ed group, whose purpose is to support Army ROTC and provide service to the University.

The Xavier University ROTC Radio Club maintains a station operating in the amateur bands and as part of MARS—the Military Affiliate Radio System. Students receive instruction necessary for earning operators' licenses.

The Xavier Rifle and Pistol Club practices marksmanship under the direction of a member of the Department of Military Science. The team participates in intercollegiate competition, varsity and ROTC competition as members of the Ohio-Kentucky Rifle League. The Club sponsors the Walsh Invitational Rifle Tournament. Students receive instruction necessary for earning operators' licenses.

The Xavier University Pershing Rifle Drill Team practices the art of precision drill. The team competes in several drill meets in the midwest region and annually co-sponsors (with the University of Cincinnati Army and Air Force ROTC drill team) the Queen City Invitational Drill Meet, which is one of the largest in the country. Membership is open to all students currently enrolled in Military Science and those other students who have completed the ROTC Basic Course (MS 101-104).

The Xavier University ROTC Ranger Club provides ROTC cadets with the means to develop their self-confidence, leadership, and skill in applying basic military principles. Cadets are given the opportunity to participate in scuba diving, orienteering, and rappelling. Membership is open to all ROTC cadets.

The Sailing Club participates in intercollegiate regattas as a member of the Midwest Collegiate Sailing Association. Its home port is Lake Cowan.

The Women's Rifle Team teaches the use of the rifle and develops marksmanship. Teams participate in intercollegiate matches.

Regional Clubs

The Chicago Club
The Cleveland Club
The Detroit Club
The Fort Wayne Club
The Indianapolis Club
The Toledo Club

Intramural Athletics

Intramural programs are carried on in a variety of sports. Activities are carried on in baseball, basketball, bowling, handball, touch football, and other sports.

Intercollegiate Athletics

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

Intercollegiate rivalry also benefits the student body by providing wholesome recreation and the opportunity for the undergraduates to show their loyalty to all phases of the University's program. Students gain the educational value of sharing in group activity, and also learn to respect the rules as sportsmen.

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

Participants in intercollegiate athletics, as in other co-curricular activities, must be bona fide students in good standing. They will have entered the University in accordance with the admission norms published in the Catalogue and will be subject to the regular scholastic demands. If, in the judgment of the dean, their participation in athletics interferes with their progress toward a degree, he may forbid them to continue even though they are not formally on scholastic probation.

Xavier Publications

Primarily intended as a source of information for the Xavier family, these publications offer special opportunity to students who wish to learn news writing, editing, and creative literary expression.

The Athletic Review, published by the Department of Public Relations, is the official program for all home basketball games.

The Athenaeum, a literary magazine that dates from the old college, is intended to foster literary effort among students. The staff is composed of honor students in English.

FAX is a weekly publication with information for and about the faculty.

Xavier Communique, a monthly news chronicle, is a documentary communication medium for all members of the Xavier Community. It is distributed to students, parents, alumni, friends, faculty, and administrators.

The Xavier University News. Xavier University is the publisher of The Xavier University News. As publisher the University operates through a faculty advisor who is ultimately responsible to the President and who seeks to achieve the purposes of the publication through a program of pre-publication leadership and guidance as well as post-publication review and critique. The judgment of the advisor on the acceptability of material for publication is final.
Honor Societies

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

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

Psi Chi. Honorary psychology fraternity.

Sigma Pi Sigma. There is a chapter of Sigma Pi Sigma, national physics honor society, at Xavier University. Its purposes are to serve as a means of awarding distinction to students having high scholarship and promise of achievement in physics; to promote their interest in research; to encourage professional spirit and friendship among physics students; and to popularize interest in physics.

Tau Kappa Alpha. Honorary forensic fraternity.

The Xavier Order of Military Merit. XOMM is an honorary organization of Advanced Course students selected annually by a board consisting of elected representatives from the existing membership of XOMM and a member of the military faculty. The selection of new members is subject to approval by the PMS. Some of the criteria for selection to membership are leadership qualities, military and academic grades, and relative standing in the Cadet Battalion. Members of the order are awarded a red fourragere to be worn as part of the uniform.

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

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

Delta Sigma Pi. The Theta Lambda chapter of the International Fraternity of Delta Sigma Pi, a professional fraternity in business administration, promotes academic achievement, leadership and brotherhood.

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

Non-Student University Groups

The Booklovers Association, organized in 1925, actively promotes the interests of the library through the purchase of books and periodicals. Funds are raised by means of membership fees, benefit parties, and special gifts. This group, recruited largely from mothers of students, meets monthly during the academic year for lectures, card parties, and entertainments.

The Dads' Club of Xavier University has as its purpose: (1) cooperation with the administrative body of Xavier University in maintaining high standards of education; (2) the support of extra-curricular activities of the student body; (3) social acquaintance among members of the club; (4) promotion of the general welfare of Xavier University. Members of the faculty, and fathers of past, present, and prospective students are eligible for membership.

Xavier University Alumni Association. This association was organized in 1888. Its purpose is to strengthen and perpetuate college friendships; to preserve in the former students a warm regard for Alma Mater and a lively memory of the substantial benefits she has bestowed; to cherish and advance her interests, maintain her honor, and sustain her reputation by honorable conduct.

The Honors Course Committee. The women of this committee support the Honors Bachelor of Arts program and allied activities of the College of Arts and Sciences.

The Faculty Wives. This organization sponsors social activities to promote friendship among families of the faculty and the administration.

The Xavier Marian Society. This is an organization of men and women desiring to live and serve in accord with the spirit of Vatican II.

The Musketeer Club. Alumni and friends of the University's athletic program participate in the activities of this club.

The Natural Law Society. Sponsored by Xavier University, this Society was founded for members of the legal profession. Its purpose is to assist legislators, judges, and attorneys in the application of the natural law to the enactment, interpretation, and practice of law. Membership is informal and open to the entire legal profession. The Society has a Governing Board composed of Greater Cincinnati lawyers. It sponsors speakers, panel discussions, and study seminars.
The College of Arts and Sciences
The College of Business Administration

Application for Admission and
Admission Requirements

Admission policies apply in general to all undergraduates. Those planning to enter the College of Continuing Education, however, should apply directly to the Dean of that college. No deposit is required of College of Continuing Education applicants.

Application for Admission

Application for admission to the College of Arts and Sciences or the College of Business Administration is made on a special form which will be supplied upon request made to: Director of Admissions, Xavier University, Victory Parkway, Cincinnati, Ohio 45207. The applicant must fill out the form and send it to the Director of Admissions. The applicant must also request his high school (and any colleges he may have attended) to forward directly to the Director of Admissions a transcript of his academic record.

An application fee of $15.00 must accompany the application. The fee is not refundable or applicable to any account. Applicants are urged to submit their application forms with the fee as early as possible.

Requirements for Admission

The admission policy of Xavier University is non-discriminatory for all persons regardless of race, creed, sex, or national origins.

To be eligible to apply a student must be the graduate of an accredited high school with a minimum average of C (80%) and have a recommendation from his high school principal. A minimum academic average of B is ordinarily required for admission to the Pre-Medical program. An applicant with a lower average is admitted at the discretion of the Committee on Admissions.

All applicants are required to take the College Entrance Examination Board Scholastic Aptitude Test (SAT) or American College Testing Program (ACT). Details regarding the tests may be obtained from the high school principal or counsellor. Applicants are urged to take the tests at an early date.

An applicant who was registered previously at the University but who has interrupted his residence is required only to submit the Application for Admission, unless he has attended another school in the meanwhile.

A student who accepts admission to Xavier University also accepts the obligation of observing the regulations of Xavier University.
Subjects Required for Admission

A unit is the equivalent of a subject extending through a scholastic year of thirty-six weeks with five recitations per week. A minimum of fifteen units is required.

The following units are required of all applicants for admission:

<table>
<thead>
<tr>
<th>Subject</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>English</td>
<td>4</td>
</tr>
<tr>
<td>Mathematics</td>
<td>2</td>
</tr>
<tr>
<td>Foreign Language</td>
<td>2</td>
</tr>
<tr>
<td>Natural Science</td>
<td>1</td>
</tr>
<tr>
<td>History</td>
<td>1</td>
</tr>
<tr>
<td>Other subjects</td>
<td>5</td>
</tr>
</tbody>
</table>

Of the five non-specified units, one must be in a college-preparatory subject. Not more than four will be accepted in vocational subjects. The five units must be offered from courses approved by the applicant's high school, for which credit has been granted. Single half units are acceptable only in those courses considered half-year subjects. Less than one full unit is unacceptable in subjects which ordinarily cover a full year's work and for which a full unit is usually granted. Applicants offering a classical or modern language must present a minimum of two units. An applicant who does not present two units of credit in a language (modern or classical) may offer as a substitute two units of either history and/or natural science. More than four units in any specific subject is not acceptable.

Deposits

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

Upon approval of an application from a student requiring housing accommodations, the Admissions Office will forward information and a room reservation form for a campus residence hall. Students from the Cincinnati area are welcome to live on campus. In order to reserve a campus housing accommodation, the University requires a non-refundable room deposit of $75.00. The deposit is credited to the student's account and will be deducted from the total bill at registration. A room reservation will not be honored without payment of the deposit.

Early Admission

Xavier University admits superior high school students, full-time or part-time, who have completed junior year and have the recommendation of the principal and counsellor. Such students must have maintained a grade point average of at least a B. Courses completed in high school should include three units of English, two of mathematics, two of science, two of social science, and two units of one foreign language.

Admission on Probation

Applicants who do not meet the qualifications for admission may, under special circumstances, be admitted on probation at the discretion of the Committee on Admissions. They must pass whatever examinations the Committee on Admissions shall deem necessary.

Advanced Placement

The University grants advanced placement with credit in subjects in which a student has made a satisfactory score in the College Entrance Examination Board Advance Placement tests. There is a $5.00 service fee for students in this program who request that their grades be sent to another school.

Admission to the Pre-Medical Program

A minimum academic average of B is ordinarily required for admission to the pre-medical program. However, applicants whose averages are lower may be considered by the Committee on Admissions, given attitude and intelligence tests, and admitted at the discretion of the Committee on Admissions.

Admission to Advanced Standing

Applicants from other institutions of collegiate rank must file with the Director of Admissions complete original credentials from all institutions attended. These credentials must include an official transcript of all high school and college credits showing the entire scholastic record; evidence of honorable dismissal or dismissals; and evidence of satisfactory completion of financial arrangements with the institution or institutions attended. No applicant may disregard his previous college record and apply for freshman standing.

The rank of advanced standing to which the student will be admitted will depend upon the quantity and quality of the work done in the other institution or institutions, the accreditation of the institution, and the conformity of the work to the degree program for which the student wishes to register. Courses in which the applicant has received the lowest passing grade will not be acceptable. These courses need not be repeated unless repetition be deemed necessary by the Dean or the directors of the departments. In all cases evaluation of credits for advanced standing will be provisional for at least one semester.

Students dismissed for poor scholarship from the University or from other institutions will not be eligible for admission or readmission until the lapse of at least one semester. In all cases, admission or readmission and the conditions of such will be determined finally by the Committee on Admissions.

All credentials must be on file in the office of the Director of Admissions at least one month prior to the day of registration. (See paragraph on Necessary Credentials.) It is advisable to get transcripts in much earlier.

Necessary Credentials

Applicants for admission to Xavier University must submit official records from all high schools and colleges previously attended. These records must be sent to Director of Admissions directly by the proper officer of the school or schools formerly attended—never through the student. Credentials accepted for admission become the property of the University and are kept on file permanently. All credentials must be filed at least one month before the day of registration.

Admission of Special Students

Although the University usually recommends a complete program of studies, students who possess sufficient maturity, experience, and educational background may, with the dean's consent, choose special courses without following a complete degree program. Courses thus taken may be subsequently credited toward a degree if proper credentials are presented.

Notification of Admission

The applicant will receive from Xavier University a notice of admission or a notice of unfavorable action as soon as the University has received his admission form and the official records from all high schools and all colleges previously attended.
Provisional Admission

Provisional admission may be granted by the Dean to a student who has been unable to complete arrangements for formal admission before registration dates. If the student is later discovered to be unqualified for admission, his admission and registration are canceled.

Admission of Veterans

Xavier University is approved by the Veterans Administration for the education and training of veterans and their dependents under all existing public laws.

All requests for information should be addressed to The Director, Veterans Educational Benefits, Xavier University, Alter 114, Cincinnati, Ohio 45207.

Admission to the College of Continuing Education

Those seeking admission to the undergraduate College of Continuing Education, whether in Arts and Sciences or in Business Administration, should apply to: The Dean, College of Continuing Education, Xavier University, Cincinnati, Ohio 45207.

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

It should be noted that non-local full-time students registered for 12 semester hours or more through the College of Continuing Education and attending day classes must live in the dormitory until they attain the status of Senior (90 semester hours completed). All fees applicable to full-time day students are applicable to full-time students registered for day classes through the College of Continuing Education.

Registration

Time of Registration

Fixed dates in each session found in the academic calendar of this Catalogue are reserved for registration.

Late Registration

Registration on days later than the assigned dates may be permitted upon the payment of a late registration fee of $5.00 and $1.00 per day up to ten days.

Change in Schedule

After the student has filed registration forms, changes in courses or sections can be made only with the consent of the Dean at the recommendation of the departmental advisor. No change in schedule may be made later than one week after the inception of classes.

A fee of $3.00 will be charged for each change.

Number and Choice of Courses Permitted

The number and choice of courses or total number of credit hours in a student’s program of studies are subject to such restriction as shall be deemed necessary by the Dean or the departmental advisor.

Selection of Courses

Students must observe prerequisites set by the University or by the departments which conduct the instruction. Students may not disregard the directions of the dean and of the chairman of departments in this matter.

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

Fees*

Communications concerning costs for the College of Continuing Education should be addressed to the Dean of the College of Continuing Education, Xavier University, Cincinnati, Ohio 45207. Certain charges, such as the deposit with the application, are not required by the College of Continuing Education.

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

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

Accounts Payable and Service Fee*

All accounts are payable on the day of registration. This applies to all Xavier University students. All Xavier University students can pay one-third of the sum owed the University on the day of registration, a second third on November 1st or March 1st, and the final third on December 1st or April 1st for the Fall and Spring Semesters respectively. A one-third payment plan can be selected for summer sessions also. On unpaid balances the following policy will govern all University students:

A 1% per month service fee will be charged to all accounts with an unpaid balance over 30 days old. The service fee is computed on the balance outstanding on the first day of the preceding month, less any payments and credits received during that month. New charges incurred during the month are not subject to a service fee for that month. To avoid any additional service fee, the entire amount due may be paid at any time.

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

*Expenses listed are for the 1974-1975 academic year. Changes are made in these rates from time-to-time.
Ordinary Expenses*  
Tuition per credit hour, undergraduate colleges .............................. $53.00  
N.B.—Auditors pay same rate as above.  
Matriculation fee (payable once) ................................................. 10.00  
R.O.T.C. fee (per semester) ....................................................... 10.00  
Deposit—except freshmen (partially refundable) ............................ 25.00  
Freshmen Deposit (partially refundable) ..................................... 35.00  
Laboratory science fee (per course per semester, for Biology, Chemistry,  
Physics, Experimental Psychology, Physiological Psychology, and Statistical Techniques) ......................................................... 20.00  
Laboratory materials deposit (per course per semester—partially refundable) 10.00  
Laboratory materials deposit, Comparative Anatomy ........................ 15.00  
Laboratory materials deposit for science thesis (partially refundable) ....... 25.00  
Medical Technology Fee (see block schedule) .................................. 75.00  
General fee (per semester) ........................................................... 80.00  
(The general fee includes the use of all non-classroom facilities, the Student Health Center, and a reduction in the fee charged for the services of the Psychological Services Center.)  
Identification Card (annually) ...................................................... 5.00  
Language laboratory fee (to be paid by all students required to use the language laboratory, per semester) ................................. 7.50  

Honors Course*  
A flat tuition rate of $800.00 per semester has been approved by the Board of Trustees for students pursuing the Honors A.B. degree course. This flat rate will also include tuition for extra courses which the Honors A.B. student, with the permission of the Dean, wishes to take. The flat tuition rate does not include student fees.

Contingent Expenses*  
Fee for change in registration ..................................................... $ 3.00  
Late registration ................................................................. 5.00  
Additional per day ............................................................. 1.00  
Maximum ................................................................. 10.00  
Special examinations (each) .................................................... 2.00  
Duplicate transcript ......................................................... 1.00  
Undergraduate Record Examination ........................................... 4.00  
Graduation fee ............................................................... 25.00  

Room*  
Room, per semester ......................................................... $235.00-$260.00  
Room Equipment Damage and Improvement Fee (non-refundable) .......... $10.00  
All rooms are equipped with a bed, desk, chair, and bed linen. Students are expected to bring blankets, towels, and soap.  
*Expenses listed are for the 1974-1975 academic year. Changes are made in these rates from time-to-time.

Board*  
Students who live on campus are required to take their meals in the University Dining Room on a seven-day basis. There are two basic plans from which students other than Seniors may choose. (1) A seventeen-meal plan includes breakfast, lunch and dinner, Monday through Friday, and dinner only on Saturday and Sunday; cost, $335.00 per semester. (2) A nineteen-meal plan includes breakfast, lunch and dinner Monday through Friday with brunch and dinner Saturday and Sunday; cost, $360.00 per semester. Seniors living on campus are required to take only one meal per day, Monday through Friday, and may elect to take breakfast, lunch or dinner or any combination exceeding the single meal per day plan. Breakfast and lunch are available on Saturdays in the Grill on a cash basis. Brunch is available on a cash basis on Sundays in the University Dining Room. (Board includes meals from the first day of scheduled classes of the day undergraduate divisions to the last day of scheduled examinations of the same divisions.)

Refunds (Undergraduate)*  
A refund of tuition may be claimed in the case of withdrawal or dismissal.  
The University semester refund schedule is as follows:  
Before the first class meeting ...................................................... 100% refund  
First day of class and 6 days thereafter ....................................... 90% refund  
7-13 days after first class meeting ............................................. 70% refund  
14-20 days after first class meeting .......................................... 50% refund  
21-27 days after first class meeting ........................................... 30% refund  
28-34 days after first class meeting ........................................... 10% refund  
After 34 days .................................................................. no refund  

The amount of the refund will be calculated from the date of formal notification of withdrawal. Cf. Withdrawal from the University.  
For tuition refund schedules for the summer sessions, consult the University Summer Bulletin.  
Fees are not refunded in regular or summer sessions.  
A refund of board expenses may be claimed by one separating from the University. The amount of refund will be proportioned to the date at which the student gives formal notice of separating from the University.  
Students drafted or called to service as reservists will receive a 100% refund of tuition and a partial refund for the unused portion of their General Fee. At the time of application for this refund, the student's ID card must be returned to the Treasurer's office.

Academic Regulations  
Classification of Students  
Lower Division Groups:  
1. Freshmen—students having less than 29 credit hours and 56 quality points.  
2. Sophomores—students having from 29 credit hours and 58 quality points to 54 credit hours and 108 quality points.  
Upper Division Groups:  
1. Juniors—students having from 55 credit hours and 110 quality points to 89 credit hours and 178 quality points.  
2. Seniors—students having a minimum of 90 credit hours and 180 quality points.  
*Expenses listed are for the 1974-1975 academic year. Changes are made in these rates from time-to-time.
Auditors—students not taking courses for college credit.

Unclassified—students who have not declared themselves as candidates for any degree.

Auditors—students not taking courses for college credit.

Unit of Instruction

A unit of instruction is one hour a week for a minimum of fifteen weeks. The unit is called a credit hour. A weekly two- or three-hour period of laboratory work is considered equivalent to one credit hour.

Examinations

Examinations in all courses are regularly held at mid-semester and the end of the semester. A student who has been absent from a mid-semester or semester examination will receive a grade of X if the excuse for the absence is acceptable to the dean; otherwise, the absentee will receive an automatic failure. Absence, however, does not excuse a student from the requirement of a special examination at a time determined by the Dean. If an X grade is not removed within two weeks, a grade of F will be given for the course.

Written assignments are due at the time specified by the instructor. If extension of time is granted, the student will be given a temporary grade of I. Unless the assignments are completed within two weeks after the last day of the regularly scheduled examinations, the student will be recorded as failing the course.

If a student claims knowledge of a subject for which he cannot furnish an official record, a special examination may be given with the approval of the Dean and the chairman of the department.

Grading System

A—Exceptional. Indicates not only high achievement but also an unusual degree of intellectual initiative.
B—Good. Indicates attainment above the average.
C—Average. Indicates the normal attainment for the average student.
D—Inferior. Indicates passing work but below the normal attainment.
F—Failure.
I—Incomplete; grade withheld pending fulfillment of assignment.
W—Withdrawal (approved).
X—Absent from examination.
S—Pass for Pass/Fail electives.
U—Unsatisfactory for Pass/Fail electives.

N.B.—No student may withdraw from a class within the last 28 days before the first day of the final examinations. At this time he must either take the examinations or receive a failure.

All withdrawals must be official.
1. The student must obtain written permission of his Dean.
2. The student must go to the Registrar's office and personally withdraw.

Quality Points

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

A—4 points per credit hour
B—3 points per credit hour
C—2 points per credit hour
D—1 point per credit hour

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

Pass/Fail

Juniors and Seniors may take on a Pass/Fail basis 12 hours or ten percent of the total hours presented for graduation. They may not take more than 6 hours on a Pass/Fail basis in their major or the business core, and may not take any Pass/Fail courses in the Military Science program.

Student-teaching, which must be taken on a Pass/Fail basis, shall be over and above the aforementioned 12 hours or ten percent of the total hours presented for graduation.

The course(s) will carry credit hours toward graduation but will have no effect on the quality point average. (Pre-medical students should not take science courses as Pass/Fail, nor should those working for teaching certificates elect education courses.) Students must indicate election of a Pass/Fail course at pre-registration. Changes to or from a grade basis are allowed until the close of late registration.

Good Standing

In order to remain in good academic standing, a student must maintain a cumulative average of 2.0. Failure to maintain this requirement will result in the student being placed on warning, or on probation, or being suspended by the University.

If a freshman's cumulative average falls below 2.0 but is not less than 1.75 in each semester, he will be warned. If a freshman's average falls below 1.75 in either semester, he will be placed on probation.

If a student's cumulative average for those hours taken as a sophomore, junior, or senior falls below 2.0, he will be placed on probation. If a student fails to obtain a cumulative average of 2.0 at the end of the semester that he is on probation, he may be suspended.

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

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

Warned List

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

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

Failure

A student who fails in two or more courses in a semester may be excluded from registration at the dean's discretion.
Permission to re-enter the University will be granted only after the student petitions for re-admission in writing and sets forth evidence of his ability to do satisfactory academic work.

Re-Admissions

Students suspended for poor scholarship from the University or from other institutions will ordinarily not be eligible for admission or re-admission until the lapse of at least one semester. In all cases, admission or re-admission and the conditions of such, will be determined finally by the Committee on Admissions.

Censure

The University reserves the right to censure the conduct of any student on or off the campus in accord with the generally accepted norms of good behavior, Catholic practice, and Catholic principles of morality. This censure will be regarded as purely disciplinary and may take the form of correction, suspension, or dismissal which the President of the University, upon advice of the Committee on Student Welfare, may deem appropriate. Suspension will carry with it the scholastic loss resulting from absence, and dismissal will mean the loss of credit hours. When a student incurs the disciplinary censure of dismissal, or withdraws while under the censure of suspension, the University has the right to declare, at the discretion of the President, the facts of disciplinary censure to the admissions officer of any educational institution to which the student may subsequently apply.

Attendance

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

Absence from a Test

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

Transfer within the University

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

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

Withdrawal from Courses

If a student withdraws from any or all courses without permission of the Dean or the Registrar, he receives an automatic failure. Permission will be given only when application is made within two weeks after discontinuance of attendance or from the corresponding portion of a summer session.

The student who withdraws from any or all courses with the requisite permission receives a grade of W. See Grading System.

Withdrawal from the University

A student who wishes to withdraw from the University must notify the office of the Dean or the Registrar either in person or in writing. A student is considered to be in attendance until he has given this formal notice of withdrawal.

A student will be obliged to withdraw for reasons of poor scholarship, failure to remove academic probation, or misconduct.

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

Honorable Dismissal

Honorable dismissal is voluntary withdrawal from the University with the consent of the Dean or the Registrar. A statement to such effect, indicative of the student’s good standing so far as character and conduct are concerned, will be issued only when all indebtedness to the University has been adjusted.

Transcript Regulations

Application for a transcript of credits must be made in writing by the student himself and filed with the registrar at least two weeks before the record is needed.

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

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

There is no charge for the first transcript. A fee of $1.00 is charged for each additional transcript.

Since the Registrar’s Office does not maintain Graduate School or the College of Continuing Education records, students who have been registered in one of the undergraduate day colleges and later in the Graduate School or the College of Continuing Education must apply to both the Registrar’s Office and the Graduate School or the College of Continuing Education when requesting transcripts.

Auditor

Anyone wishing to audit a course without receiving credit may do so at one-half of the regular tuition rate for the credit course. It is understood that the one-half tuition rate is applicable only for courses in which there are registration vacancies. Auditor’s rates will not be applicable to courses which become closed to credit students.

Anyone changing from auditor status to credit status must pay the additional fee to equal the normal tuition rate per credit hour. Anyone changing from credit status to auditor after the first class will not receive a tuition reduction but will be billed for a credit registration. No one may change from a credit status to an audit status after the final date for withdrawal from a course. No one may change from audit status to credit status after the allowed period for late registration.

This auditor policy applies only to undergraduate students.

Curricular Information

The Curriculum

The various curricular programs of the University are designed to attain the educational objectives as described in the “Objectives of the University.” The various
Curricula are planned to provide learning experiences for the liberally educated person. The basic core curriculum—required of all students—has been designed to accomplish this goal. Additionally, opportunities for concentration in special areas of learning are provided through the broad offerings of University majors.

**Degrees**

The University will confer a bachelor's degree upon any candidate who has successfully completed an accepted program of studies, and who has fulfilled, prior to graduation, all degree requirements, both general and particular. Degrees conferred on candidates of the College of Arts and Sciences are the Bachelor of Arts, Honors Bachelor of Arts, Bachelor of Science, and Bachelor of Literature. Graduates of the College of Business Administration receive the Bachelor of Science in Business Administration.

**Curricular Guidelines**

1. The Arabic numeral in parenthesis following course titles in the course description listings’ section of the catalogue (pp. 108-200) indicates the number of semester credit hours which the course carries.

2. Semester hours requirement:

<table>
<thead>
<tr>
<th>Academic Major</th>
<th>Sem.</th>
<th>Cr. Hrs.</th>
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</table>

   - Hours vary according to the subject. See the department’s requirements in the block schedules that follow.

   - Foreign Language

   - Students in the College of Arts and Sciences, except those in physical education, elementary education, and education-science, must complete twelve hours in a foreign language, either classical or modern.

   - Students who present two or more units of a high school language (modern or classical) are exempted from taking the introductory or elementary course in the language, provided that they continue with the same language at the University. Further reduction of semester hours of requirements is possible through a test-out program.

   - Non-English speaking students are not required to meet any foreign language requirements except a facility in English language skills.

   * English Composition

   - Unless the student passes the qualifying examination in writing skills. The course (En 101: English Composition), if it must be completed, must be taken during one of the freshmen semesters.

   - If the student passes the qualifying examination, the student then has three additional semester hours as free electives.

   † Philosophy

   - Non-majors, except H.A.B. students, choose one of six programs. During freshman, sophomore, and junior years, however, the College of Continuing Education students electing to do so, may fulfill this requirement by completing CA 122: Written Communications and Reports.

   † The number of required semester hours in philosophy and theology is subject to review and revision for transfer students by the Dean of the student’s college.

   † The number of required semester hours in philosophy and theology is subject to review and revision for transfer students by the Dean of the student’s college.
3. The course numbering system:
   100 to 199 Lower division courses
   200 to 399 Upper division courses, open to graduate students for graduate
   credit except where specified as for undergraduate credit only
   400 to 499 Administrative use only
   500 to 699 Courses for graduate students only

4. Students should have at least one course in philosophy and one in theology
   each year, in part as follows:
   - PI 220: Philosophy of Man Th 100-114 (1 course)
   - PI 230: Metaphysics Th 120-122 (1 course)
   - PI 240: Principles of Ethics Th 200-399 (2 courses)

   When class sections are filled, the preceding courses in philosophy and in
   theology are interchangeable by semesters.

   During their first years at the University, underclassmen, except majors in
   philosophy and H.A.B. candidates, will elect one program, to be completed
   in senior year, from these variables:
   - I. PI 241: Current Moral Problems
   - II. PI 241: Current Moral Problems
     Select one: PI 243: Principles of Political Philosophy, or
     244: Medical Ethics, or
     246: Business Ethics
   - III. PI 381: Contemporary Continental European Philosophy
   - IV. Select two: PI 250: History of Ancient Philosophy
     PI 260: History of Medieval Philosophy
     PI 270: History of Modern Philosophy
     PI 280: History of Contemporary Philosophy
     (or 381 or 383)
   - V. PI 232: Philosophy of God
   - VI. PI 210: Logic (or 310)
   - PI 237: The Material World (or 338)

   Elective Courses in philosophy are listed in the block schedules in senior
   year as Program Electives.
   - In Program I the elective may be taken after PI 230 (unless PI 240 is pre-
     requisite).
   - In Program II the sequence is fixed.
   - In Program VI PI 210 may be taken before or after PI 220 and 230.
   - In Programs III, IV, and V the sequence after PI 230 is optional except as
     prerequisites apply.
   - The Chairman may authorize substitutions in courses other than PI 220,
     230, and 240.
   - H.A.B. students will complete PI 200, 220, 230, 240, 260, 270, and 280
     (or 381 or 383).
   - Majors in philosophy will follow the block schedule for philosophy.

Requirements for Degrees
1. Candidates for undergraduate degrees must complete the curricular require-
   ments listed under the preceding Curricular Guidelines.

2. Students must complete from six to fifteen hours of lower division work pre-
   paratory to the specialization of their choice.
3. They must also have no fewer than eighteen hours of upper division work
   in the major, in all of which they must attain an average of C.
4. They must have at least 120/126 hours with an overall average of C.
5. They must have an average of C in upper division courses.
6. They must have completed the last 30 hours in residence and with an average
   of C.
7. They must have filed formal application for the degree in the office of their
   college.
8. They must have taken the Undergraduate Record Examination (Advanced
    Test) in their major field if it is a departmental requirement.
9. They must have passed the comprehensive examination if in the College of
   Arts and Sciences—unless the department has a substitute requirement.
   (When a thesis is required, the original and one copy must be deposited in
   the Registrar's office on or before the date designated in the University
   Calendar in the Catalogue.)
10. They must have discharged all financial obligations to the University.
11. They must have agreed to be present at the Commencement.

Graduation Honors
Honors are awarded on the basis of outstanding attainment. A student who has
earned a quality-point average of 3.75 in his college work will be graduated Summa
cum Laude; one who has earned 3.50, Magna cum Laude; one who has earned 3.25,
Cum Laude. These honors are announced at commencement and are inscribed on
the diplomas of those meritng them.

For students graduating in June, the final semester's work cannot be computed in
determining the quality-point average for honors for inscription on the diplomas and
announcement at graduation. However, after the annual graduation ceremony,
honors obtained as a result of including the student's final semester will be entered
on the student's official University record.

Transfer student's are eligible for honors at graduation only under the following
conditions:
1. They must have completed at Xavier University at least half of the work
   required for their program.
2. The quality-point average earned for their work at Xavier University must
   meet the standards given above.

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

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

Studies Outside the United States
Students who desire to spend a year abroad as part of their undergraduate
education have a number of possibilities open to them. The student should consult
the Chairman of the International Education Committee for available opportunities. The program sponsored by Loyola University, Chicago, at the Rome Center of Liberal Arts is especially recommended. Students who wish to spend their sophomore or junior year at the Rome Center are urged to request information in the first semester of the previous year. A full complement of courses is taught by faculty from Loyola and other American and European universities. The transcript of credits is issued from Loyola, Chicago. Xavier University is an affiliate of Loyola University in sponsoring the year abroad at the Rome Center.

For the student’s convenience, specific information about the purposes of, and the requirements for, the various degree programs is given on the following pages. A block schedule, suggesting the student’s sequence of courses, is also presented. The student may increase his or her course load with the Dean’s consent.
Degree Programs—
The College of Arts and Sciences

THE HONORS BACHELOR OF ARTS

The Honors Bachelor of Arts is awarded to students who have completed the entire Honors program of the University. This curriculum was instituted in the belief that its values meet the needs of the day for Christian humanism. It attempts to build a security based on those things that are themselves secure—the great languages and their literatures; the nature of science; the history of human thought and action; philosophy, by which men come to understand themselves, the ways of God with humankind, their dignity as men, and their obligations to their fellowmen.

Only those ranking high in their high school graduating classes will be admitted to the Honors program. A special board of admissions passes on the fitness of applicants. In doubtful cases applicants will take special examinations to determine their qualifications for the program.

In addition to the regular requirements for admission to the University, students accepted for the Honors course ordinarily have four units of Latin, and it is desirable that they have two units of Greek.

It will be noted that the possibility of at least thirty-three elective hours enables the superior student, in addition to completing an intensive course in the liberal arts, to cover the pre-medical requirements or to do concentrated work in a major field—classics, economics, English, history, the modern languages, philosophy, physics, or psychology.

The minimum requirements:

<table>
<thead>
<tr>
<th>Roman</th>
<th>Greek</th>
<th>History</th>
<th>History of Classical Lit.</th>
<th>Latin</th>
<th>English</th>
<th>Mathematics*</th>
<th>Philosophy</th>
<th>Science**</th>
<th>Theology</th>
<th>Electives†</th>
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<tr>
<td>3</td>
<td>5</td>
<td>3</td>
<td>6</td>
<td>21</td>
<td>12</td>
<td>6</td>
<td>21</td>
<td>8-9</td>
<td>12</td>
<td>36</td>
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*The six hours of mathematics include Calculus I and II.

**The science requirement may be fulfilled by taking either General Zoology or General Chemistry.

†Students need not take all thirty-six hours of electives; or, with permission, they may take more than thirty-six hours.

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Honors Bachelor of Arts

Freshman Year

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<tr>
<td>En</td>
<td>3</td>
<td>En</td>
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<tr>
<td>Gk 172—Plato* or.</td>
<td>3</td>
<td>Gk 162—Euripides or.</td>
<td>3</td>
</tr>
<tr>
<td>Gk 101—Elem. Greek</td>
<td>5</td>
<td>Gk 102—Intro. to Greek Lit.</td>
<td>5</td>
</tr>
<tr>
<td>HS 123—Western Civ. to 1648</td>
<td>3</td>
<td>HS 124—Western Civ. Since 1648</td>
<td>3</td>
</tr>
<tr>
<td>Lt 261—Roman Comedy</td>
<td>3</td>
<td>Lt 153—Virgil: Aeneid VII-XII</td>
<td>3</td>
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<tr>
<td>Mt 120—Calculus I</td>
<td>3</td>
<td>Mt 130—Calculus II</td>
<td>3</td>
</tr>
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**Total: 15-17

Sophomore Year

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<tbody>
<tr>
<td>Bl 111—Gen. Zoology I Lab or.</td>
<td>2</td>
<td>Bl 113—Gen. Zoology II Lab or.</td>
<td>2</td>
</tr>
<tr>
<td>Ch 110—Gen. Chemistry I</td>
<td>3</td>
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<td>Gk 260—Sophocles</td>
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<td>Gk 331—Thucydides</td>
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<tr>
<td>Lt 214—Latin Prose Style</td>
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<td>Lt 231—Horace: Odes</td>
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<tr>
<td>Pl 200—Origins of Phil.</td>
<td>3</td>
<td>Pl 220—Phil. of Man</td>
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<tr>
<td>Th 100-114—(1 Course)</td>
<td>3</td>
<td>Th 120-122—(1 Course)</td>
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Total: 19

Junior Year

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<td>Gk 251—Homer: Iliad</td>
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Total: 15-21

Senior Year

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<td>Electives.</td>
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Total: 12-21

*Students having two units of high school Greek, or its equivalent, will register for Gk 172. Others will take Gk 101.

**Those not taking Gk 101, 102 ordinarily elect a modern language.

†Required, unless exempted through a test-out program. See page 41.
THE BACHELOR OF SCIENCE (Biology)

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

A student's program contributes to his liberal arts education and prepares him for career opportunities:
1. Graduate study
2. Entrance to schools of medicine, dentistry, veterinary medicine, and optometry
3. Teaching biology at the high school level
4. Specialized employment

Students planning graduate study, teaching, or similar employment complete General Zoology, General Botany, Genetics, General Physiology, and Methods of Biological Research (21 hours) and remaining hours of BI electives.

Those going to medical or dental schools complete General Zoology, Microbiology or General Botany, Genetics, General Physiology, and Methods of Biological Research (20 hours), twelve recommended hours including Embryology, Comparative Anatomy, Vertebrate Histology, and remaining hours of BI electives.

Students planning application to schools of veterinary medicine should consult with the Department Chairman for current listing of courses required for admission after three years and four years of undergraduate studies.

Majors must complete two semesters of physics, four of chemistry (through organic), and two of mathematics (statistics and calculus). The Chairman advises students as to course sequence and prerequisites for courses. With his approval, majors may substitute courses to fulfill requirements.

Program requirements are:

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<th>Subject</th>
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B.S. (Biology)

**Freshman Year@**

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<td>Mt 103—Statistics Biol. Sci.</td>
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**Sophomore Year**

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<td>Pl 220—Phil. of Man.</td>
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**Junior Year**

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<td>Bl 230—Genetics</td>
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<td>Ch 143—Organic Chemistry I Lab</td>
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<tr>
<td>Hs 123—Western Civ. to 1648*</td>
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<td>Hs 124—Western Civ. Since 1648*</td>
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<td>Pl 240—Prins. of Ethics</td>
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<tr>
<td>Humanities Elective</td>
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<td>Th 120—122—(1 Course)</td>
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<td></td>
<td>15 17</td>
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**Senior Year**

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<td>Th 200—399—(1 Course)</td>
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<td></td>
<td>16 18</td>
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<td>16-17</td>
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</table>

Total: 16-18

@Courses in Social Science, Humanities, Philosophy or Theology may be taken in the freshman year and the start of language studies postponed to the sophomore or junior years. See Language requirements, page 40. *Required, unless exempted through a test-out program. See pages 40-41.
THE BACHELOR OF SCIENCE (Chemistry)

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

Xavier University is approved by the American Chemical Society for its training in chemistry. *

Departmental requirements for a major include:

1. The completion of Ch 110, 111, 112, 113, 130, 131, 132, 133, 140, 141, 142, 143, 190, 230, 250, 260, 261, 280, 281, and one of the following: Ch 320, 340, or 370.

2. A senior research project culminating in a written thesis, Ch 298, 299.

The minimum program requirements follow:

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<td>English Composition</td>
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<td>Philosophy</td>
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<td>Social Studies</td>
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<tr>
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</table>

*Students completing the approved program of studies are graduated as "certified" chemistry majors.

**A student may continue in the language (foreign or modern) which he has commenced in high school. If he chooses to begin the study of a new foreign language, the department recommends German or Russian.

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### B.S. (Chemistry)

#### Freshman Year

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<tr>
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<td>Ch 111—Gen. Chemistry I Lab</td>
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<td>Ch 113—Gen. Chemistry II Lab</td>
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<tr>
<td>Hs 123—Western Civ. to 1648**</td>
<td>3</td>
<td>Mt 120—Calculus I*</td>
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<tr>
<td>Foreign Language@</td>
<td>3</td>
<td>Hs 124—Western Civ. Since 1648**</td>
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<tr>
<td>Th 100-114—(1 Course)</td>
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<td>Foreign Language</td>
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<td>En 101—English Composition**</td>
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<td>Pl 220—Phil. of Man</td>
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Total: 16

#### Sophomore Year

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Total: 17

#### Junior Year

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<td>Pl—Program Elective</td>
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Total: 16

#### Senior Year

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Total: 16

*If a student has advanced standing in the calculus, he will begin his mathematics courses with Mt 130 or Mt 110. If the entering student has a serious mathematics deficiency, he may be required to make up such deficiencies in the first semester of the freshman year.

**Required, unless exempted through a test-out program. See pages 40-41.

@See Language requirements, page 40.
THE BACHELOR OF SCIENCE (Chemical Science)

In addition to the B.S. (Chemistry) program (see pg. 50), the Department of Chemistry offers a program which leads to the degree of Bachelor of Science (Chemical Science). This latter program is intended primarily for those students who wish to make use of chemical knowledge in connection with a career in the business world, e.g., in sales or marketing, or in secondary education.

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

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

General program requirements are as follows:

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B.S. (Chemical Science)

Freshman Year

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<td>Th 100-114—(1 Course)</td>
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Sophomore Year

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Junior Year

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Senior Year

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*Required, unless exempted through a test-out program. See pages 40-41.
@See Language requirements, page 40.
### A.B. (Classics)

#### Freshman Year

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#### Sophomore Year

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#### Junior Year

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#### Senior Year

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</table>

*Required, unless exempted through a test-out program. See pages 40-41.
THE BACHELOR OF SCIENCE (Communication Arts)

The Department of Communication Arts aims to develop understanding, positive attitudes, and skills in communication. The department offers six possible areas of concentration. The student selects one, preferably in his first year, and studies one CA course. Before the end of his second year, he will have declared his concentration. Basics are first required, then courses in the student's area, and finally the completion of the thirty-hour program with electives in the concentration or related area. Since Basics vary somewhat from one area to another, careful planning must occur from the outset. See requirements of all areas below.

Creativity is sought foremost at all levels of development. The one-hour practicum for undergraduates only encourages original work under supervision. A senior project and senior comprehensive exams complete the degree program.

Areas of concentration with sequential requirements of ten courses (30 hours) follow:

Communication-Speech—Basics: 101, 102, 206, 203, 204; Area: three communication-speech courses; Electives: two courses in this or a related area.

Film Area—Basics: choose one (101, 102, 200, 260, 263, 266) and 206, 203, 204; Area: 211, 212, 213; Electives: three courses in this or related area.

Journalism—Basics: choose one (101, 102, 200, 260, 263, 266) and 206, 203, 204; Area: 241, 242, 243; Electives: three in Public Relations or in related area.

Public Relations—Basics: choose one (101, 102, 200, 260, 263, 266) and 206, 203, 204; Area: 251, 252, 253, and any journalism course; Electives: two courses of value to the student.

Radio-Television—Basics: 102, 206, 203, 204; Area: 220, 221, 223, 224, 225; Electives: one course of value to the student.

Theatre—Basics: 102, 206, 203, 204; Area: 231, 232, 235, or 238; Electives: three in this or related area.

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<thead>
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<th>Subject</th>
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*Six hours additional may be added to the CA major by electing appropriate CA courses from approved humanities courses. These courses also fulfill the Humanities requirements.

CAMPUS DEPARTMENTAL FACILITIES

Audiovisual Center serving the entire university.
Dana Film Studios, for courses in film, photography, and TV.
WVXU-FM, university radio station—lab for radio-television majors and all students.
XU TV Studios—lab for radio-television majors; production center.

B.S. (Communication Arts)

Freshman Year

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Sophomore Year

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<td>Mt—Elective</td>
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<td>Ph 230</td>
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Junior Year

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<td>PI 240</td>
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Senior Year

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<td>Humanities Elective</td>
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<td>Th 200-399</td>
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@See Language requirements, page 40.
*Required, unless exempted through a test-out program. See pages 40-41.
THE BACHELOR OF ARTS (Economics)

A Bachelor of Arts degree in economics is offered to those who wish to take the traditional liberal arts program. The curriculum of an economics major is designed to satisfy the student's desire for a broad liberal arts background, and to provide a general, but thorough, understanding and appreciation of economic activity.

Students majoring in economics must complete these specific courses:

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<td>Ec 210</td>
<td>Human Resources</td>
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<td>Ec 250</td>
<td>Money and Banking</td>
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<td>International Economics</td>
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Prescribed subjects and credit hours required by the A.B. (Economics) follow:

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A.B. (Economics)

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<td>Th 100-114—(1 Course)</td>
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<td>Pl 220—Phil. of Man</td>
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Sophomore Year

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Junior Year

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<td>Th 200-399—(1 Course)</td>
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Senior Year

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<td>Pl—Program Elective</td>
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<td>Pl—Program Elective</td>
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<td>Humanities Elective</td>
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<td>Th 200-399—(1 Course)</td>
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<td>Total</td>
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<td>Total</td>
<td>15</td>
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</tbody>
</table>

*Required, unless exempted through a test-out program. See pages 40-41.
@See Language requirements, page 40.
# TEACHER CERTIFICATION

**Secondary School**

The sequential courses in education are planned to provide the required preparation for teaching in secondary schools of Ohio. Recommendation for State certification is made by Xavier University after completion of all requirements.

Each student must be formally accepted in writing into the teacher education program before he takes his first course in education. This acceptance is given by the Director of the Elementary, Secondary or Physical Education Program as applicable.

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

1. Professional education courses; Ed 131, 141, 201, 202 (or 210), 203, plus 3 hrs. from Ed or Ps.
2. For teaching particular subjects (history, English, etc.), the student must consult the specific state requirements of each subject. Copies of these requirements may be secured in the Teacher Education and Placement Office.
3. For teaching health and physical education, the student must follow the B.S. (Physical Education and Health) program, outlined below. Information and counseling are available at the Physical Education Office in the Xavier University Fieldhouse.

**Elementary School**

The B.S. (Elementary Education) program is a major in Elementary Education and leads to University recommendation for State certification to teach grades one through eight in Ohio. This program is outlined in the block schedule. Information and counseling are available in the Teacher Education and Placement Office. Students wishing to teach K-8 see footnote in the block schedule.

**Outside of Ohio**

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

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## BACHELOR OF SCIENCE (Physical Education and Health)

The minimum program requirements for the Bachelor of Science in Physical Education and Health are:

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<th>Subject</th>
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<th>U.D.</th>
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## B.S. (Physical Education and Health)

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* Bi 106, 107, 108, 109 offered every other year, alternating with Hs 123, 124.
† Ed 377, 378 offered every other year, alternating with Ed 371, 386, 387, 388.
** Ed 373, 375 offered every other year, alternating with Ed 372, 374.
†† Ed 203, Student Teaching may be taken either semester of the senior year.
@ Required, unless exempted through a test-out program. See pages 40-41.
† Students may elect a modern language, subject to language requirements, in lieu of mathematics. See page 40.
### B.S. (Teaching Biology and General Science)

**Freshman Year**

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**Junior Year**

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**Senior Year**

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*May be taken in either semester. Interchangeable with philosophy and elective courses.

**Required, unless exempted through a test-out program. See pages 40-41.

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### B.S. (Teaching of Chemistry and Mathematics)

**Freshman Year**

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**Sophomore Year**

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**Junior Year**

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*May be taken in either semester. Interchangeable with philosophy and elective courses.

**Required, unless exempted through a test-out program. See pages 40-41.

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### B.S. (Teaching General Science and Mathematics)

#### Freshman Year

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#### Sophomore Year

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#### Senior Year

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*May be taken in either semester. Interchangeable with philosophy and elective courses.

**Required, unless exempted through a test-out program. See pages 40-41.

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### B.S. (Teaching Physics and Mathematics)

#### Freshman Year

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</thead>
<tbody>
<tr>
<td>Ch 110—Gen. Chemistry I</td>
<td>3</td>
<td>Ch 112—Gen. Chemistry II</td>
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<td>Ch 111—Gen. Chemistry I Lab</td>
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<tr>
<td>Humanities Electives</td>
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<td>Humanities Elective (Lit.)</td>
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</tr>
<tr>
<td>Ed 131—Prins. of Education</td>
<td>3</td>
<td>Ed 141—Educational Psych</td>
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</tr>
<tr>
<td>Mt 110—Vectors and Geometry</td>
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<td>Mt 220—Advanced Calculus I</td>
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<tr>
<td>PI 230—Metaphysics</td>
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<td>Th 120-122—(1 Course)</td>
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<td>19</td>
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#### Junior Year

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<tbody>
<tr>
<td>Ed 210—Sec. Meth., Curr. &amp; Eval.</td>
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<td>Humanities Elective (Lit.)</td>
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<tr>
<td>Mt 240—Linear Algebra</td>
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<td>Mt—Elective</td>
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<td>Ph 108—Univ. Physics I</td>
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<td>Ph 111—Univ. Physics Lab II</td>
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<tr>
<td>PI 240—Prins. of Ethics</td>
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<td>Th 200-399—(1 Course)</td>
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<tr>
<td><strong>Total</strong></td>
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#### Senior Year

<table>
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<tbody>
<tr>
<td>Ph 350—Theoretical Mech I</td>
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<td>Ed 203—Student Teaching*</td>
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<td>PI—Program Electives</td>
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</tr>
<tr>
<td>Mt—Elective</td>
<td>3</td>
<td>Th 200-399—(1 Course)</td>
<td>3</td>
</tr>
<tr>
<td>PI 240—Prins. of Ethics</td>
<td>3</td>
<td>Elective</td>
<td>3</td>
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<tr>
<td><strong>Total</strong></td>
<td>15</td>
<td><strong>Total</strong></td>
<td>13</td>
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*May be taken in either semester. Interchangeable with philosophy and elective courses.

**Required, unless exempted through a test-out program. See pages 40-41.
**B.S. (Elementary Education)**  
(Grades 1-8)

<table>
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<th>Freshman Year</th>
<th>Second Semester</th>
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<td>Mt 104—College Mathematics</td>
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<td>Ph 114—Intro. Phys. Science</td>
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<td>Ph 115—Intro. Phys. Science Lab</td>
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<td>Ps 101—Gen. Psychology</td>
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<td>Th 100-114—(1 Course)</td>
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<tr>
<td><strong>Total</strong></td>
<td>16</td>
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</tbody>
</table>

| **Sophomore Year** | | |
| **First Semester** | **Sem. Hrs.** | **Second Semester** | **Sem. Hrs.** |
| Ed 300—Elem. Curriculum† | 3 | En 226—Children's Lit. | 3 |
| Ed 318—Ling. for Teachers | 3 | Ed 315—New Math: Elem. | 3 |
| FA 201—History of Art I | 3 | Ed 385—Phys. Ed. Elem. Sch. | 2 |
| Hs 341—U.S. to 1865 | 3 | FA 252—Hist. & Lit. of Music II | 3 |
| Th 120-122—(1 Course) | 3 | PI 230—Metaphysics | 3 |
| **Total** | 15 | **Total** | 17 |

| **Junior Year** | | |
| **First Semester** | **Sem. Hrs.** | **Second Semester** | **Sem. Hrs.** |
| Ed 214—Meth. of Teaching Read | 3 | Ed 302—Elem. Meth. & Mat.: Lang. Arts, Social Sc.@@ | 2 |
| Ed 301—Elem. Meth. & Mat.: Sc.@ | 2 | En—Elecitive (Lit.) | 3 |
| Ed 313—Elem. Meth. & Mat.: Art. | 1 | Hs 261—World Civilization | 3 |
| Ed 314—Elem. Meth. & Mat.: Music | 1 | Gg 207—World Geography | 3 |
| Ed 382—Elem. Health & Hygiene | 2 | Pl 240—Prins. of Ethics | 3 |
| Hs 260—World Civilization | 3 | **Total** | 15 |
| Th 200-399—(1 Course) | 3 | **Total** | 16 |

| **Senior Year** | | |
| **First Semester** | **Sem. Hrs.** | **Second Semester** | **Sem. Hrs.** |
| Ed 204—Student Teaching*† | 6 | En 200—Adv. Comp. for Teachers. | 3 |
| Ed 304—Elem. Prof. Problems | 2 | Pl—Program Electives | 3 |
| Elective† | 3 | Th 200-399—(1 Course) | 3 |
| Elective**† | 2 | Electives**† | 4 |
| **Total** | 13 | **Total** | 16 |

*Ed 300 includes the September observation experience and additional school observations throughout the semester.  
@Ed 300 is a prerequisite for Ed 301 and 302.  
*Student Teaching may be assigned in either semester and balanced by Philosophy and/or other electives.  
**Electives should be used to develop an area of subject matter specialty.  
†Students wishing certification in Kindergarten through 8th grade must take  
Ed 305, 306 Kindergarten Methods and Materials, I (2 cr. hrs.), II (2 cr. hrs.)  
as electives and do student teaching at the K-3 level.  
‡‡Ed 216 Dia! Reading Instruction strongly recommended.

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**PRE-LEGAL STUDY**

Most law schools will accept only those students who hold a college degree. The basic criteria for acceptance into law school are quality point average during undergraduate studies and performance on the Law School Admission Test which is taken one year before entrance to law school.

American law schools do not prescribe specific courses nor a specific major for pre-law study. Law schools look to prospective students for comprehension and expression in writing, a critical understanding of the human institutions and value with which the law deals, and creative power in thinking. There is no such thing as a pre-law program; rather quality of education and breadth of background are the best preparation.

Students interested in a career in law should consult a member of the Xavier University Pre-law Committee. They are also urged to join the St. Thomas More Pre-law Society.

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**THE BACHELOR OF SCIENCE IN BUSINESS**

(Offered in General Business in the College of Continuing Education only)

This B.S.B.A. program for College of Continuing Education students requires the following non-business subjects:

<table>
<thead>
<tr>
<th>Subject</th>
<th>Sem. Hrs.</th>
<th>Subject</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>English</td>
<td>3</td>
<td>Philosophy</td>
<td>15</td>
</tr>
<tr>
<td>Humanities</td>
<td>12</td>
<td>Social Sciences</td>
<td>6</td>
</tr>
<tr>
<td>Mathematics</td>
<td>6</td>
<td>Theology</td>
<td>12</td>
</tr>
<tr>
<td>Science</td>
<td>6</td>
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</tbody>
</table>

The remainder of the curriculum is as follows:

**Business Core:**

<table>
<thead>
<tr>
<th>Course No.</th>
<th>Subject</th>
<th>Sem. Hrs.</th>
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</thead>
<tbody>
<tr>
<td>Ac 100, 101</td>
<td>Principles of Accounting I-II</td>
<td>6</td>
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<tr>
<td>BA 270</td>
<td>Business Statistics</td>
<td>3</td>
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<tr>
<td>BA 280</td>
<td>Legal Environment</td>
<td>3</td>
</tr>
<tr>
<td>Ec 101, 102</td>
<td>Principles of Economics I-II</td>
<td>6</td>
</tr>
<tr>
<td>Ec 210</td>
<td>Human Resources</td>
<td>3</td>
</tr>
<tr>
<td>Ec 250</td>
<td>Money and Banking</td>
<td>3</td>
</tr>
<tr>
<td>Fi 255</td>
<td>Business (Corporation Finance)</td>
<td>3</td>
</tr>
<tr>
<td>Mg 100</td>
<td>Principles of Management</td>
<td>3</td>
</tr>
<tr>
<td>Mk 100</td>
<td>Principles of Marketing</td>
<td>3</td>
</tr>
<tr>
<td>Business Electives</td>
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**Concentration:**

<table>
<thead>
<tr>
<th>Subject</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ac 260</td>
<td>Financial Statements</td>
</tr>
<tr>
<td>Ec 320</td>
<td>Economic Theory and Social Order</td>
</tr>
<tr>
<td>Electives</td>
<td>At least one upper division course from each of these fields: Economics, Finance, Industrial-Relations/Management, and Marketing</td>
</tr>
</tbody>
</table>
THE BACHELOR OF ARTS (English)

The Department of English offers training in composition, in the literature of England and of America, in literary backgrounds, and in criticism. The program results in cultural enrichment and in numerous vocational possibilities.

The following is a regulation passed by the Academic Council:

"The violation of any of the ESSENTIALS FOR WRITING (list submitted by the Department of English) in term papers or reports submitted by students to any professor must be penalized by a reduction in grade. Any unsatisfactory term paper or report submitted to any professor must be returned for re-writing and must be automatically penalized by the reduction of one letter in grading, e.g., a B paper automatically becomes a C paper."

In the judgment of any professor, a student whose written work is unsatisfactory in grammar, orthography, or syntax may be required to repeat En 101 at any time during his undergraduate education. He must then pass successfully the proficiency examination in English given at stated times during the academic year.

English majors should take En 113, 114, 131, and 132 as preparatory to upper-division work. On the upper-division level they must complete six hours of American literature and at least one course in Shakespeare (En 325, 326, or 327). Other courses should be chosen according to the student's interest and his post-graduation plans.

During their junior and senior years, English majors must work with an assigned member of the department to prepare for their senior comprehensive examination. The basis for their guidance is the reading list available in the English Department Office.

Students who wish to be certified as teachers of English on the secondary level are advised to consult with the Chairman and with the Office of Teacher Education regarding the requirements for teacher certification.

A summary of the curriculum follows:

<table>
<thead>
<tr>
<th>Subject</th>
<th>Sem. Hrs.</th>
<th>L.D.</th>
<th>U.D.</th>
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</thead>
<tbody>
<tr>
<td>English</td>
<td>12</td>
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<tr>
<td>History</td>
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<td>6</td>
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<tr>
<td>Humanities (non-Eng.)</td>
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<td>6</td>
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<td>Mathematics</td>
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<tr>
<td>Foreign Language</td>
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<tr>
<td>Electives</td>
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A.B. (English)

Freshman Year

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<tr>
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<tbody>
<tr>
<td>En 113—Rhetoric and Lit.</td>
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<td>En 114—Rhetoric and Lit.</td>
<td>3</td>
</tr>
<tr>
<td>Hs 123—Western Civ. to 1648*</td>
<td>3</td>
<td>Hs 124—Western Civ. Since 1648*</td>
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</tr>
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<td>Foreign Language</td>
<td>3</td>
<td>Foreign Language</td>
<td>3</td>
</tr>
<tr>
<td>Science Elective</td>
<td>3</td>
<td>Science Elective</td>
<td>3</td>
</tr>
<tr>
<td>Th 100-114—(1 Course)</td>
<td>3</td>
<td>Pl 220—Phil. of Man</td>
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Sophomore Year

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<tr>
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<tbody>
<tr>
<td>En 131—Survey of British Poetry</td>
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<td>En 132—Survey of British Drama</td>
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<td>Elective</td>
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<tr>
<td>Mt—Elective</td>
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<td>Mt—Elective</td>
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</tr>
<tr>
<td>Th 120-122—(1 Course)</td>
<td>3</td>
<td>Pl 230—Metaphysics</td>
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<tr>
<td>Foreign Language</td>
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Junior Year

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<td>En—Amer. Lit. Elective</td>
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<td>Humanities Elective</td>
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<td>Humanities Elective</td>
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<tr>
<td>Th 200-399—(1 Course)</td>
<td>3</td>
<td>Pl 240—Prins. of Ethics</td>
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<tr>
<td>Social Science Elective</td>
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Senior Year

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<td>Pl—Program Elective</td>
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<td>Pl—Program Elective</td>
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<td>Th 200-399—(1 Course)</td>
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<tr>
<td>Total</td>
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<td>Total</td>
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</tr>
</tbody>
</table>

*Required, unless exempted through a test-out program. See page 40.
† These courses satisfy University English composition requirement for English majors.
@@See Language requirements, page 41.
### The Bachelor of Arts (History)

The Bachelor of Arts, conferred on history majors, requires Hs 123, 124, 341, 342, 294, and five or seven additional courses. Those who plan careers in law or business should complete the 30 hour major. Those who will attend graduate school or become teachers should complete a 36 hour major. Thus they will use six hours of their electives. Seminars for seniors planning graduate study in history are offered in aspects of the history of the United States, Europe, Latin America, and Asia.

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

A Senior Comprehensive Equivalent requirement exists. It may be satisfied by: either a) A Senior Comprehensive Examination based on a departmental reading list; or b) Scoring above the 25 percentile in either the Graduate Record Examination or the Undergraduate Record Examination. (N.B. The 25 percentile rank on the Graduate Record Examination should not be interpreted as a qualifying rank for graduate school.)

Specific degree requirements follow:

<table>
<thead>
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<th>Subject</th>
<th>Sem. Hrs.</th>
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<th>U.D.</th>
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<td>Mathematics</td>
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<td>Foreign Language</td>
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<td>Philosophy</td>
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<th>U.D.</th>
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<thead>
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<th>Sem. Hrs.</th>
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<th>U.D.</th>
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<td></td>
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<tr>
<td>Social Science</td>
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<td>—</td>
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<tr>
<td>Theology</td>
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</tr>
<tr>
<td>Electives</td>
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<table>
<thead>
<tr>
<th>Subject</th>
<th>Sem. Hrs.</th>
<th>L.D.</th>
<th>U.D.</th>
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</thead>
<tbody>
<tr>
<td>History</td>
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<td>Humanities</td>
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<td>Social Science</td>
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<tr>
<td>Electives</td>
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<td>15</td>
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</tr>
</tbody>
</table>

*Required, unless exempted through a test-out program. See pages 40-41.
@See Language requirements, page 40.
# THE BACHELOR OF SCIENCE (Mathematics)

The Department of Mathematics offers a program intended to develop exact methods of thought and analysis, provide the mathematical background for work in science and business, and prepare students for teaching and for graduate work.

*Sophomores* wishing to major in mathematics should have a quality point average of 2.5 or better in Mt 110, 120, and 130. Any student wishing to major in mathematics should consult a member of the mathematics staff before registration. Mathematics majors should fulfill the Modern Language requirement in French, German, or Russian.

The program is summarized:

## Freshman Year

<table>
<thead>
<tr>
<th>Subject</th>
<th>Sem. Hrs.</th>
<th>L.D.</th>
<th>U.D.</th>
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<tr>
<td>History</td>
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<td>Humanities</td>
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<td>Modern Language</td>
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<td>Philosophy</td>
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<td>Theology</td>
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<tr>
<td>Electives</td>
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</tr>
<tr>
<td>English Composition</td>
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<tr>
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## Sophomore Year

<table>
<thead>
<tr>
<th>Subject</th>
<th>Sem. Hrs.</th>
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<th>U.D.</th>
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<tbody>
<tr>
<td>Science Elective</td>
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<tr>
<td>Pi 230—Metaphysics</td>
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<td>ML 121</td>
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<td>Mt 210—Infinite Series</td>
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<td>Mt 220—Advanced Calculus I</td>
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<tr>
<td>Mt 240—Prins. of Ethics</td>
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<td></td>
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<tr>
<td>Mt 240—Linear Algebra</td>
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## Junior Year

<table>
<thead>
<tr>
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<th>U.D.</th>
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<tbody>
<tr>
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<tr>
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<td>Social Science Elective</td>
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<tr>
<td>Th 200—Prins. of Ethics</td>
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<td></td>
<td></td>
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<tr>
<td>Mt 240—Linear Algebra</td>
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## Senior Year

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<tr>
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</table>

*Required, unless exempted through a test-out program. See pages 40-41.

@See Language requirements, page 40.
THE BACHELOR OF SCIENCE (Medical Technology)

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

All requirements of the College of Arts and Sciences' core curriculum are fulfilled in the first six semesters; the year spent at the hospital teaching laboratories consists of specialized studies. These courses will be part of a program approved by ASCP for medical technologists. They include clinical microscopy, serology, immuno-hematology, clinical microbiology, and similar studies. The B.S. is awarded by Xavier University upon satisfactory completion of the fourth year.

After passing an examination administered by the Board of Registry of Medical Technologists of the ASCP, the graduate becomes aRegistered Medical Technologist.

Through an affiliation with 2 hospitals the program may be completed in nuclear medical technology, but a tuition fee is charged by the hospitals.

Specific course requirements for the first three years are indicated in the accompanying block schedule. Listed below are these requirements in summary.

### Subject Sem. Hrs.
- Biology 16
- Chemistry 18
- Foreign Language 12
- Humanities 12
- History 6
- Mathematics 6
- Philosophy 15
- Social Science 6
- Theology 12
- English Composition 3

B.S. (Medical Technology)

**Freshman Year**

<table>
<thead>
<tr>
<th>Semester</th>
<th>Subject</th>
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<tbody>
<tr>
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<td>Bl 111—Gen. Zoology Lab</td>
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<tr>
<td>First</td>
<td>Ch 110—Gen. Chemistry I</td>
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<td>Ch 111—Gen. Chemistry Lab</td>
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<td>Mt 121—Calculus (Scientific)</td>
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<td>First</td>
<td>En 101—English Composition*</td>
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**Second Semester**

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<tr>
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<td>Ch 112—Gen. Chemistry II</td>
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**Sophomore Year**

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<td>First</td>
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<td>First</td>
<td>Pl 230—Metaphysics</td>
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<tr>
<td>First</td>
<td>Hs 123—Western Civ. to 1648**</td>
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<tr>
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<td>Th 100-114—(1 Course)</td>
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**Junior Year**

<table>
<thead>
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<th>Subject</th>
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</thead>
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<td>Pl—Program Elective</td>
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<tr>
<td>First</td>
<td>Th 200-399—(1 Course)</td>
<td>3</td>
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<tr>
<td>First</td>
<td>Humanities Elective</td>
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<td>First</td>
<td>Social Science Elective</td>
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<tr>
<td>Total</td>
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**Senior Year**

<table>
<thead>
<tr>
<th>Semester</th>
<th>Subject</th>
<th>Sem. Hrs.</th>
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</thead>
<tbody>
<tr>
<td>First</td>
<td>Bl 210—Gen. Microbiology</td>
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</tr>
<tr>
<td>First</td>
<td>Bl 211—Gen. Microbiology</td>
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<td>First</td>
<td>Pl—Program Elective</td>
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</tr>
<tr>
<td>First</td>
<td>Th 200-399—(1 Course)</td>
<td>3</td>
</tr>
<tr>
<td>First</td>
<td>Humanities Elective</td>
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<td>First</td>
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<tr>
<td>Total</td>
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<td>17</td>
</tr>
</tbody>
</table>

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

**Required, unless exempted through a test-out program. See pages 40-41.

@See Language requirements, page 40.
THE BACHELOR OF ARTS (Modern Languages)

The Department of Modern Languages offers courses of interest to students seeking to meet a variety of goals:

1. Fulfillment of the modern language requirement. The Department offers courses in basic language skills and culture of four foreign languages: French, German, Russian and Spanish.

Students who begin a Modern Language at Xavier, or who have had one year of that language in high school must take 12 semester hours beginning with the 111 (Elementary I) course. Those who have two high school units in a modern language and continue the same modern language at the University are required to take 9 semester hours and must enroll in the 112 (Elementary II) course. By taking the MODERN LANGUAGE PROFICIENCY TEST, students may test out of any of the following courses: 112, 121, 122.

2. Practical and vocational preparation. Advanced courses in foreign language, literature, and civilization are available to those interested in areas of secondary education, government, business, and international agencies in which a strong foreign language background is a requirement or a valuable asset. A language major is not necessary to meet this goal.

3. A MAJOR in French, in German, or in Spanish.

4. A MASTER'S DEGREE IN EDUCATION. Concentrations are available to M.Ed. candidates in French, German and Spanish.

5. ELECTIVES. Upper division language courses are applicable to fulfill elective obligations in the humanities. All such courses may be used as free electives.

The Geoghegan Memorial Language Laboratory is fully equipped to provide audiovisual language training.

The major programs aim at providing the student the opportunities for an in-depth knowledge of the literature and civilization of linguistic groups and a high degree of proficiency in the spoken and written language.

Requirements for modern language majors:
- Majors in French: Fr 200
- Majors in German: Gr 200, Gr 232, Gr 260
- Majors in Spanish: Sp 200

During the final semester before graduation, all majors are required to take a departmental Senior Comprehensive Examination in their major language.

Outline of the major program:

<table>
<thead>
<tr>
<th>Subject</th>
<th>L.D.</th>
<th>U.D.</th>
<th>Subject</th>
<th>L.D.</th>
<th>U.D.</th>
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<tbody>
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<td>French, German, or Spanish</td>
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<td>Philosophy</td>
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<tr>
<td>History</td>
<td>6</td>
<td>—</td>
<td>Science</td>
<td>6</td>
<td>—</td>
</tr>
<tr>
<td>Humanities</td>
<td>12</td>
<td>—</td>
<td>Social Science</td>
<td>6</td>
<td>—</td>
</tr>
<tr>
<td>Mathematics</td>
<td>6</td>
<td>—</td>
<td>Theology</td>
<td>6</td>
<td>6</td>
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<tr>
<td>English Composition</td>
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<td>—</td>
<td>Electives</td>
<td>18</td>
<td></td>
</tr>
</tbody>
</table>

Total: 15

*Required, unless exempted through a test-out program. See pages 40-41.

@See Language requirements, page 40.
THE BACHELOR OF ARTS (Philosophy)

The undergraduate program in philosophy is intended to aid students to gain understanding in depth, to arrive at a true and unified view of all reality, and to form principles by which to evaluate the explanations proposed.

Majors will be expected to grasp the fundamental and unifying principles of reality and of understanding, the dignity of human nature, and the rational foundations of religion. They should acquire a broad but critical acquaintance with the positions advanced by the most important philosophers throughout history. They will complete a minimum of thirty-six hours in philosophy, taken in special or HIP sections when offered: PI 210 (or 310), 220, 230, 232, 237 (or 238), 235, 240, 241, 250, 260, 270, and one of PI 280, 381, or 383. PI 398 and 399 will be offered as an optional aid to the student.

They also will take written and oral comprehensive examinations with satisfactory performance.

They are encouraged to include French and Latin, which are of great importance for advanced study in philosophy.

A summary of requirements for the major follows:

<table>
<thead>
<tr>
<th>Subject</th>
<th>Sem. Hrs.</th>
<th>Subject</th>
<th>Sem. Hrs.</th>
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<tbody>
<tr>
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<td>Science</td>
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<td>History</td>
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<td>Social Science</td>
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</tr>
<tr>
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<tr>
<td>Foreign Language</td>
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<td>English Composition</td>
<td>3</td>
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</tbody>
</table>

The requisites of this program leave twenty-one hours of electives—enough for a second concentration or specialization, which is strongly recommended rather than a wide dispersal of courses.

---

**A.B. (Philosophy)**

**Freshman Year**

<table>
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<tr>
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<tr>
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<td>Hs 124—Western Civ. Since 1648*</td>
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<td>Foreign Language@</td>
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<tr>
<td>Science Elective</td>
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<td>Science Elective</td>
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<tr>
<td>Th 100-114—(1 Course)</td>
<td>3</td>
<td>Pi 220—Phil. of Man.</td>
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<td>En 101—English Composition*</td>
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**Sophomore Year**

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<td>Foreign Language</td>
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<td>Pi 232—Phil. of God.</td>
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**Junior Year**

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<tbody>
<tr>
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<td>Pi 270—Hist. of Modern Phil.</td>
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<td>Pi 260—Hist. of Medieval Phil.</td>
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**Senior Year**

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<tr>
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<td>Pi 381—Contemp. Continental</td>
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</tbody>
</table>

*Required, unless exempted through a test-out program. See pages 40-41.

@See Language requirements, page 40.
### THE BACHELOR OF SCIENCE (Physics)

The Department of Physics offers a curriculum leading to the Bachelor of Science in physics.

The educational benefits to be derived from a study of the science of physics are training in scientific method, acquaintance with the historical development of physical science, and a knowledge of the applications of physical laws which play so large a part in modern life. In all physics courses emphasis is laid on the intelligent comprehension of basic principles.

The Bachelor of Science program in physics provides a general background for advanced study not only in physics but also in such fields as astronomy, space science, biophysics, computer science, engineering, geophysics, medicine, and oceanography.

A working knowledge of algebra and trigonometry is assumed of freshman physics majors. Deficiencies in this area should be removed before the start of freshman course work.

The minimum requirements follow:

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<td>English Composition</td>
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</tr>
</tbody>
</table>

With the approval of the Department Chairman, some of the scientific requirements in the program outlined above may be modified to suit the needs of individual students.

---

### B.S. (Physics)

#### Freshman Year

<table>
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<tr>
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<tbody>
<tr>
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<td>Ph 110-Univ. Physics II</td>
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<td>Ph 111-Univ. Physics II Lab</td>
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<tr>
<td>Ph 160-T.S. Computers in Phy.</td>
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<td>Ph 161-Dig. Computers in Phy.</td>
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<tr>
<td>Mt 110—Vectors and Geometry</td>
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<td>Mt 120—Calculus I</td>
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<td>Ph 220—Phil. of Man</td>
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<td>Hs 124—Western Civ. Since 1648**</td>
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#### Sophomore Year

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<tr>
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<td>Ph 352—Electromagnetism</td>
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<td>Mt 130—Calculus II</td>
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<td>Th 100-114—(1 Course)</td>
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<td>Ph 230—Metaphysics</td>
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#### Junior Year

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<td>Ph 365—Phys. Optics Lab (1)*</td>
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<td>Ph 244—Electronics II (2)* and</td>
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<td>Ph 245—Electronics II Lab (1)*</td>
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<td>Mt 230—Advanced Calculus II</td>
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#### Senior Year

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<tr>
<td>Ph 376—Intro. to Quantum Mech.</td>
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<td>Ph 374—Nuclear Physics</td>
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<td>Ph 399—Senior Research I</td>
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<td>Ph 364—Phy. Optics (5)* or</td>
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<td>Ph 399—Senior Research II</td>
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<td>Ph 242—Electronics I (2)* and</td>
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<td>Ph 372—Electromagn. Theory (2)* &amp;</td>
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<td>Ph 243—Electronics I Lab (1)*</td>
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<td>Ph 365—Phys. Optics Lab (1)*</td>
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<td>Ph 244—Electronics II (2)* and</td>
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<td>Th 200-399—(1 Course)</td>
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<td>Ph 245—Electronics II Lab (1)*</td>
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<td>Ph—Program Elective</td>
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<td>Humanities Elective (Lit.)</td>
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<td>Th 200-399—(1 Course)</td>
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</tbody>
</table>

*These courses are offered on alternate years.

**Required, unless exempted through a test-out program. See pages 40-41.

@See Language requirements, page 40.
THE BACHELOR OF ARTS (Political Science)

The Department of History and Political Science offers the Bachelor of Arts in political science. This program requires Po 101, 102, 133, 221, 377, and either 390 or 391, and a minimum of four other courses for a total of 30 hours.

Political science aims to produce a deep understanding of the functions and processes of political power, of the place of authority in society, of the use of freedom in human relations. Regard for institutional practice, to conserve freedom and employ sound social forces toward the perfecting of political action, are prime purposes in the field.

Those who plan careers in law or business should complete the 30 hour major. Those who will attend graduate school or become teachers should complete a 36 hour major. Thus they will use six hours of their electives.

A summary of the program follows:

<table>
<thead>
<tr>
<th>Subject</th>
<th>Sem. Hrs.</th>
<th>L.D.</th>
<th>U.D.</th>
</tr>
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<tbody>
<tr>
<td>Political Science</td>
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<td>English Composition</td>
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<tr>
<td>Foreign Language</td>
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<tr>
<td>Mathematics</td>
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<td></td>
</tr>
</tbody>
</table>

A.B. (Political Science)

Freshman Year

----------------|-----------|-----------------|-----------
Hs 123—Western Civ. to 1648** | 3 | Hs 124—Western Civ. Since 1648** | 3
Foreign Language@ | 3 | Foreign Language | 3
Th 100-114—(1 Course) | 3 | Pi 220—Phil. of Man | 3
Science Elective | 3 | Science Elective | 3
En 101—English Composition** | 3 | Humanities Elective (Lit.) | 3

Total | 15

Sophomore Year

----------------|-----------|-----------------|-----------
Elective* | 3 | Elective | 3
Humanities Elective (Lit.) | 3 | Social Science Elective | 3
Social Science Elective | 3 | Pi 230—Metaphysics | 3
Th 120-122—(1 Course) | 3 | Po 102—American Govt | 3
Pi 101—Govt. in Society | 3 | Foreign Language | 3
Foreign Language | 3 | 

Total | 18

Junior Year

----------------|-----------|-----------------|-----------
Mt 101—Statistical Inference | 3 | Mt—Elective | 3
Humanities Elective | 3 | Humanities Elective | 3
Po 221—Comparative Gov't. | 3 | Po 133—Political Theory | 3
Po—Elective | 3 | Pi 240—Prins. of Ethics | 3
Th 200-399—(1 Course) | 3 | Po 377—International Relations | 3

Total | 15

Senior Year

----------------|-----------|-----------------|-----------
Po 391—Problems in Am. Gov't. (or 390) | 3 | Po—Elective | 3
Po—Electives | 3 | Electives | 9
Pi—Program Elective | 3 | Pi—Program Elective | 3
Th 200-399—(1 Course) | 3 | 

Total | 15

*Suggested: Principles of Economics

**Required, unless exempted through a test-out program. See pages 40-41.

@See Language requirements, page 40.
**THE BACHELOR OF SCIENCE (Psychology)**

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

Departmental requirements for a major are:

1. Completion of Ps 101 and 102 as an introduction to upper division work.
2. Twenty-seven credit hours in upper division courses including Ps 210, 221, 222, and 299.
3. Satisfactory completion of Bl 110, 111, 112, 113 to fulfill the science requirement, unless substitution of other science courses is approved by the Chairman of the Department of Psychology.
4. Majors will select Mt 104 and 121 or 120 and 130.

A summary of program requirements follows:

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<tr>
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</thead>
<tbody>
<tr>
<td>Mt—Elective</td>
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<td>Phil. of Man</td>
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<td>Ps 221—Exp. Psychology</td>
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<td>Ps—Elective</td>
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</tr>
<tr>
<td>Th 100-114—(1 Course)</td>
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<td>Th 200-399—(1 Course)</td>
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<td>Total</td>
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**First Semester**

- Bi 110—Gen. Zoology I
- Bi 111—Gen. Zoology I Lab
- En 101—English Composition
- Elective
- ML 110
- Th 100-114—(1 Course)

**Second Semester**

- Bi 113—Gen. Zoology II Lab
- Humanities Elective (Lit.)
- ML 112
- Pl 220—Phil. of Man
- Ps 101—Gen. Phychology

**Junior Year**

- Hs 123—Western Civ. to 1648*
- Mt—Elective
- ML 121
- Th 120-122—(1 Course)

**Senior Year**

- Humanities Elective
- Social Science Elective
- Ps 222
- Ps—Elective

**Sophomore Year**

- Hs 124—Western Civ. Since 1648*
- Mt—Elective
- ML 122
- Pl 230—Metaphysics

**B.S. (Psychology)**

**Freshman Year**

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<td>Ps 101—Gen. Phychology</td>
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**Second Semester**

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<td>Ps 222</td>
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<td>Pl 230—Metaphysics</td>
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**First Semester**

- Social Science Elective
- Ps 222
- Ps—Elective

**Second Semester**

- Humanities Elective
- Social Science Elective
- Ps 222
- Ps—Elective

**Junior Year**

- Humanities Elective
- Social Science Elective
- Ps 222
- Ps—Elective

**Senior Year**

- Humanities Elective
- Social Science Elective
- Ps 222
- Ps—Elective

*Required, unless exempted through a test-out program. See pages 40-41.

@See Language requirements, page 40.
THE BACHELOR OF ARTS (Sociology)

Sociology, the scientific study of man's behavior in the group context, seeks to discover regular ties and order in social behavior and to express these patterns as theoretical generalizations applying to the wide range of such behavior. General and specialized areas of study are covered in the University's course offerings.

The program in the department is designed to prepare the sociology major for the following fields of endeavor: (1) graduate study for teaching sociology and anthropology; (2) the field of pure and applied social research; (3) administrative and consultant positions in business, industry, and government; and (4) service and graduate study in the social work profession.

Students majoring in sociology must complete So 101: Introduction of Sociology and So 121: Contemporary Social Problems as preparation for upper division work. The upper sequence consists of twenty-four hours and must include So 300: Sociological Theories and So 360: Methods of Social Research. A course in Statistical Techniques is recommended as a related elective for all majors. Majors desiring a career in social work should include So 220: Introduction to Social Work and So 222: Principles of Social Case Work in their program.

A summary of the program follows:

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Junior Year

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<td>So 360</td>
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<td>Th 120-122</td>
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Senior Year

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<tr>
<td>Total</td>
<td>15</td>
<td>Total</td>
<td>15</td>
</tr>
</tbody>
</table>

*Required, unless exempted through a test-out program. See pages 40-41.
@See Language requirements, page 40.
THE BACHELOR OF ARTS (Theology)

"Every university is intended to be a place where the various branches of human knowledge confront one another for their mutual enrichment. To this task of integration and synthesis, the Catholic university brings the light of the Christian message... One of the principal tasks of a Catholic university is to make theology relevant to all human knowledge and, reciprocally, all human knowledge relevant to theology." (Second Congress, Catholic Universities of the World, Rome 1972).

The Department of Theology offers a program designed to aid the student in the fuller attainment of this integration and synthesis.

Students majoring in Theology take 10 courses (30 credit hours) in Theology, distributed as follows:

<table>
<thead>
<tr>
<th>Courses</th>
<th>Hours</th>
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</thead>
<tbody>
<tr>
<td>2 Lower Division courses (as required of all students)</td>
<td>2 6</td>
</tr>
<tr>
<td>8 Upper Division courses:</td>
<td></td>
</tr>
<tr>
<td>1 each in the areas of Biblical, Systematic, Practical and Historical theology</td>
<td>4 12</td>
</tr>
<tr>
<td>4 Theology electives</td>
<td>4 12</td>
</tr>
<tr>
<td>Total</td>
<td>10 30</td>
</tr>
</tbody>
</table>

Interdepartmental courses in the fields of the psychology or sociology of religion, religious education, history, and theological themes in literature are accepted as theology electives.

Majors will take written and/or oral comprehensive examinations with satisfactory performance.

Majors are encouraged to select courses specially designed for majors and honor students, if such can be arranged. The requirements of this program for theology majors leave 27 hours for other electives—enough for a second concentration, which is strongly recommended rather than a wide dispersal of courses. Students, who intend to pursue advanced study, are reminded of the importance of a modern language for graduate theology and of Latin and Greek for biblical studies.

A summary of requirements for the major follows:

<table>
<thead>
<tr>
<th>Subject</th>
<th>Sem. Hrs.</th>
<th>L.D.</th>
<th>U.D.</th>
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<tbody>
<tr>
<td>Theology</td>
<td>6 24</td>
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<tr>
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<td>History</td>
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<tr>
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A.B. (Theology)

Freshman Year

<table>
<thead>
<tr>
<th>Courses</th>
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<tbody>
<tr>
<td>First Semester</td>
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<tr>
<td>Foreign Language</td>
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<tr>
<td>Hs 123—Western Civ. to 1648*</td>
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<tr>
<td>Science Elective</td>
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<tr>
<td>Th 100-114—(1 Course)</td>
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<td>En 101—English Composition*</td>
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<tr>
<td>Hs 124—Western Civ. Since 1648*</td>
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<tr>
<td>Th 100-114—(1 Course)</td>
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<tr>
<td>En 101—English Composition*</td>
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Sophomore Year

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<td>Th 120-122—(1 Course)</td>
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Junior Year

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<td>Pl 240—Prins. of Ethics</td>
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<td>Th—Electives</td>
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<td>Humanities Elective</td>
<td>3</td>
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<td>Pl—Program Elective</td>
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Senior Year

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<td>Total</td>
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</tbody>
</table>

@See Language requirements, page 40.
*Required, unless exempted through a test-out program. See pages 40-41.
THE BACHELOR OF ARTS (Urban Studies)

The Department of History and Political Science offers the degree of Bachelor of Arts with a concentration in Urban Studies. This program requires the student to take Hs 341, Hs 342, Hs 358, Po 359, Po/Ec 335, either Hs 365 or 366, and one of these four, Po 200, 332, 360 or 362. Note, Ec 101 and 102 are pre-requisites for Po/Ec 245 and 335 which are also required.

The purpose of this degree is to give the student a well-rounded preparation for further study or career work on the managerial level in state or local levels of government. It is also an excellent preparation for law school.

Note, there is a flexible 30-36 hour major.

Instead of a senior comprehensive examination, a senior research project is required.

A summary of the program follows:

<table>
<thead>
<tr>
<th>Sem. Hrs.</th>
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<tbody>
<tr>
<td>Urban Studies Major.......................... 30-36</td>
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<tr>
<td>Humanities.................................... 12</td>
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<tr>
<td>Social Science.................................. 6</td>
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<tr>
<td>History........................................ 6</td>
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<td>Mathematics.................................... 6</td>
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<tr>
<td>Foreign Language............................... 12</td>
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<td>Philosophy..................................... 15</td>
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<td>Theology....................................... 12</td>
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<td>Science........................................ 6</td>
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<td>Electives...................................... 6-12</td>
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<td>English Composition........................... 3</td>
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### Freshman Year

#### First Semester

- **Sem. Hrs.**
  - Hs 123—Western Civ. to 1648*........... 3
  - Foreign Language@......................... 3
  - Science Elective......................... 3
  - Th 100-114—(1 Course).................... 3
  - En 101—English Composition*............ 3

#### Second Semester

- **Sem. Hrs.**
  - Hs 124—Western Civ. Since 1648*........ 3
  - Foreign Language......................... 3
  - Science Elective......................... 3
  - Pi 220—Phil. of Man....................... 3

#### Total

- 15

### Sophomore Year

#### First Semester

- **Sem. Hrs.**
  - Hs 358—Urban America..................... 3
  - Hs 341—U.S. to 1865....................... 3
  - Th 120-122—(1 Course).................... 3
  - Humanities Elective (Lit.).............. 3
  - Foreign Language........................ 3

#### Second Semester

- **Sem. Hrs.**
  - Po 359—State and Local Gov’t........... 3
  - Hs 342—U.S. Since 1865................... 3
  - Th 230—Metaphysics....................... 3
  - Social Science Elective................. 3

#### Total

- 15

### Junior Year

#### First Semester

- **Sem. Hrs.**
  - Ec 101—Prins. of Economics............... 3
  - Po/Ec 245—Urban Economics.............. 3
  - Mt—Elective................................. 3
  - Th 200-399—(1 Course).................... 3
  - Humanities Elective...................... 3

#### Second Semester

- **Sem. Hrs.**
  - Ec 102—Prins. of Economics............... 3
  - Po/Ec 335—Public Finance............... 3
  - Mt—Elective................................. 3
  - Th 240—Prins. of Ethics................ 3

#### Total

- 15

### Senior Year

#### First Semester

- **Sem. Hrs.**
  - Hs 365 or Hs 366......................... 3
  - Elective—Major or Free.................. 3
  - Pi—Program Elective..................... 3
  - Th 200-399—(1 Course)................... 3
  - Elective.................................. 3

#### Second Semester

- **Sem. Hrs.**
  - Po 200, or Po 332, or Po 360, or Po 362 3
  - Elective—Major or Free.................. 3
  - Pi—Program Elective..................... 3
  - Elective.................................. 3
  - Social Science Elective................ 3

#### Total

- 15

*Required, unless exempted through a test-out program. See pages 40-41.

@See Language requirements, page 40.
THE BACHELOR OF SCIENCE (Natural Sciences)
(For Pre-Medical and Pre-Dental Students)

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

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

The following program is proposed for students majoring in the Natural Sciences:

<table>
<thead>
<tr>
<th>Subject</th>
<th>Sem. Hrs.</th>
<th>Subject</th>
<th>Sem. Hrs.</th>
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<tbody>
<tr>
<td>Biology</td>
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<td>Physics</td>
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<td>Mathematics</td>
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<td>Theology</td>
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<td>Foreign Language</td>
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<td>Thesis</td>
<td>2</td>
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</tbody>
</table>

With the approval of the Committee for Health Sciences, some of the science requirements in the program outlined above may be modified to suit the needs of individual students.

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

Admission Requirements of U.S. and Canadian Dental Schools published by the American Association of Dental Schools.

---

B.S. (Natural Sciences)  
(For Pre-Medical and Pre-Dental Students)

### Freshman Year*

<table>
<thead>
<tr>
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<tr>
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<td>Ch 111—Gen. Chem. I Lab</td>
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<td>Ch 113—Gen. Chem. II Lab</td>
<td>2</td>
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<tr>
<td>Mt 121—Calculus (Scientific)</td>
<td>3</td>
<td>Mt 103—Statistics Biol. Sci.</td>
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<td>Foreign Language</td>
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### Sophomore Year

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<td>Bl 300—Vert. Embryology</td>
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<td>Ch 121—Analytical Chem. Lab</td>
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<td>Bl 301—Vert. Embryology Lab</td>
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<tr>
<td>Ph 108—Univ. Physics I</td>
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<td>3</td>
</tr>
<tr>
<td>Th 100-114—(1 Course)</td>
<td>3</td>
<td>Pl 220—Phyl. of Man</td>
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<td>Humanities Elective (Lit.)</td>
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<td>Humanities Elective (Lit.)</td>
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### Junior Year

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<tbody>
<tr>
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<td>Ch 143—Organic Chem. II Lab</td>
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<tr>
<td>Ch 141—Organic Chem. I Lab</td>
<td>1</td>
<td>Hs 124—Western Civ. Since 1648@</td>
<td>3</td>
</tr>
<tr>
<td>Hs 123—Western Civ. to 1648@</td>
<td>3</td>
<td>Pl 240—Prins. of Ethics</td>
<td>3</td>
</tr>
<tr>
<td>Pl 230—Metaphysics</td>
<td>3</td>
<td>Th 120-122—(1 Course)</td>
<td>3</td>
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<td>Humanities Elective</td>
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<td>Ch 190—Chemical Lit.**</td>
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### Senior Year

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<tbody>
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<td>Ps 101—General Psychology</td>
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<td>Th 200-399—(1 Course)</td>
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<tr>
<td>Th 200-399—(1 Course)</td>
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<td>Pl—Program Elective</td>
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<td>Humansities Elective</td>
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<tr>
<td>Humansities Elective</td>
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<td>Bi 350, Ch, or Ph***</td>
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<td>Bi 399, Ch 299, or Ph</td>
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<td>Bi 398, Ch 298 or Ph</td>
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<td>Bi 398, Ch 298 or Ph</td>
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<td>15-17</td>
<td>Total</td>
<td>12-14</td>
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</table>

*See Language requirements, page 40.

**Recommended of those planning to take Ch 298 and 299, otherwise the course need not be taken.

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

@Required, unless exempted through a test-out program. See pages 40-41.
PRE-DENTAL CURRICULUM

The Council on Dental Education of the American Dental Association prescribes as a minimum for admission to a recognized dental school the completion of at least two years of education in an accredited college of liberal arts. It should be emphasized that these are the minimum requirements. Prospective applicants are well advised to surpass minimum requirements. Many dental schools require a longer period of pre-professional education and either prescribe or recommend certain additional courses at liberal arts colleges before they consider students for acceptance.

The Committee for Health Sciences at Xavier University recommends as a minimum a program of three years of pre-dental studies. If at the end of his third year of college a pre-dental student wishes to extend his education to obtain a B.S. (Natural Sciences), the Committee has indicated the remaining required courses beyond the three-year program.

Students are advised to obtain information about the actual admission policies of the dental school* they plan to attend, and to make sure that they meet the standards of admission in regard to both quality and quantity of courses.

*Admission Requirements of U.S. and Canadian Dental Schools published by the American Association of Dental Schools.

Pre-Dental (Three-Year Program)

**Freshman Year**

<table>
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<tbody>
<tr>
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<td>Ch 111—Gen. Chem. I Lab</td>
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<td>Mt 121—Calculus (Scientific)</td>
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<td>Mt 103—Statistics Biol. Sci.</td>
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<td>Foreign Language</td>
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Total: 14

**Sophomore Year**

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<td>BI 300—Vert. Embryology</td>
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<td>Hs 123—Western Civ. to 1648@</td>
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<td>Pl 220—Phil. of Man</td>
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<td>Pl 230—Metaphysics</td>
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Total: 16

**Junior Year**

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<td>Pl 240—Prins. of Ethics</td>
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<td>Humanities Elective (Lit.)</td>
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<td>Ch 190—Chemical Lit.**</td>
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Total: 17

If the student plans to continue his education and obtain a B.S. (Natural Sciences), the following program is necessary:

**Senior Year**

<table>
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<tr>
<th></th>
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</thead>
<tbody>
<tr>
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<td>Humanities Elective</td>
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<td>Th 200-399—(1 Course)</td>
<td>3</td>
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<td>Ch 120—Prin. Physical Chem</td>
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<td>Humanities Elective</td>
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<tr>
<td>Ch 121—Analytical Chem.</td>
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<td>Social Science Elective</td>
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</tr>
<tr>
<td>Bl 360 or Ch or Ph***</td>
<td>2-4</td>
<td>Bl 320 or Ch or Ph</td>
<td>2-4</td>
</tr>
<tr>
<td>Bl 398 or Ch 298 or Ph</td>
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<td>Bl 398 or Ch 299 or Ph</td>
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</tr>
</tbody>
</table>

Total: 15-17

†See Language requirements, page 40.

@Required, unless exempted through a test-out program. See pages 40-41.

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

**Recommended of those planning to take Ch 298 and 299, otherwise the course need not be taken.

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

**The College of Business Administration**

**THE BACHELOR OF SCIENCE IN BUSINESS ADMINISTRATION (Accounting)**

The program in accounting is designed to provide intensive training of a comprehensive nature for the adequate preparation of public, private or industrial accountants; independent and internal auditors; credit analysts and general business executives. The advanced courses which elaborate on the theory and practice of accounts, business analysis, costs, auditing and specialized accounting culminate in preparation for C.P.A. examinations and for actual entrance into the field of public accountancy.

Students majoring in accounting must complete these specified courses:

<table>
<thead>
<tr>
<th>Course No.</th>
<th>Subject</th>
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<tbody>
<tr>
<td>Ac 100, 101</td>
<td>Principles of Accounting</td>
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<tr>
<td>Ac 200, 201</td>
<td>Intermediate Accounting</td>
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<tr>
<td>Ac 220, 221</td>
<td>Managerial Cost Accounting</td>
<td>6</td>
</tr>
<tr>
<td>Ac 230</td>
<td>Taxation</td>
<td>3</td>
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<tr>
<td>Ac 310</td>
<td>Advanced Accounting Problems</td>
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<td>Ec 101, 102</td>
<td>Principles of Economics</td>
<td>6</td>
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<tr>
<td>Ir 210</td>
<td>Human Resources</td>
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<tr>
<td>Fi 230</td>
<td>Money and Banking</td>
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<tr>
<td>Fi 255</td>
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<td>Mg 100</td>
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<td>BA 280</td>
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The required curriculum for the degree follows:

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<thead>
<tr>
<th>Subject</th>
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<td>Finance</td>
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<td>Mathematics</td>
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<td>Theology</td>
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**B.S.B.A. (Accounting)**

**Freshman Year**

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<tr>
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<tr>
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<td>3</td>
<td>Ac 201—Interm. Accounting</td>
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<td>Ec 101—Prins. of Economics</td>
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<td>BA 270—Business Statistics</td>
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<td>Mt 112—College Math. (Business)</td>
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<td>Mg 100—Prins. of Management</td>
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<td>Pl 220—Phil. of Man</td>
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<td>Th 120-122—(1 Course)</td>
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<tr>
<td>En 101—English Composition*</td>
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**Sophomore Year**

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<tbody>
<tr>
<td>Ac 200—Interm. Accounting</td>
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<td>Ac 221—Managerial Cost</td>
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<td>BA 270—Legal Environment</td>
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<td>Mk 100—Prins. of Marketing</td>
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<td>Th 200-399—(1 Course)</td>
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**Junior Year**

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<td>Ac 220—Managerial Cost Accounting</td>
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<td>Ac 310—Adv. Accounting Probs</td>
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<td>Ac 230—Taxation</td>
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<td>Ir 210—Human Resources</td>
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<td>Pl 240—Prins. of Ethics</td>
<td>3</td>
<td>Fi 250—Money and Banking</td>
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<td>Science Elective</td>
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<td>Pl—Program Elective</td>
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<td>Social Science Elective</td>
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**Senior Year**

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<tr>
<td>Ir 210—Human Resources</td>
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<td>Pl—Program Elective</td>
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<tr>
<td>Fi 250—Money and Banking</td>
<td>3</td>
<td>Th 200-399—(1 Course)</td>
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<tr>
<td>Pl—Program Elective</td>
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<td>Ac—Elective</td>
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<td>Humanities Elective</td>
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<td><strong>Total</strong></td>
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<td><strong>Total</strong></td>
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</tbody>
</table>

*Required, unless exempted through a test-out program. See page 40.
THE BACHELOR OF SCIENCE IN BUSINESS ADMINISTRATION (Economics)

This Bachelor of Science in Business Administration provides the student with principles and procedures fundamental to the intellectual analysis of economic problems of the individual firm, industry, and the economy as a whole. Such training prepares the student to recognize the problem, to analyze it objectively, and to offer a proper solution. The program is beneficial to those who wish to assume positions as economists, either private or public; business analysts; investment analysts; business executives; and labor leaders. It encourages them not only to solve individual problems, but to analyze the monetary and fiscal policy of the government in relation to its effects on the total economy.

Students working for the B.S.B.A. (Economics) must complete these specified courses:

**Course No.** | **Subject** | **Sem. Hrs.**
--- | --- | ---
Ec 101, 102 | Principles of Economics | 6
Ec 200 | Microeconomic Analysis | 3
Ec 201 | Macroeconomic Analysis | 3
Ec 202 | History of Economic Thought | 3
Ec 250 | Money and Banking | 3
Ec 345 | International Trade | 3
Ec Electives | | 9
Ac 100, 101 | Principles of Accounting | 6
Mk 100 | Principles of Marketing | 3
Mg 100 | Principles of Management | 3
Ir 210 | Human Resources | 3
Fi 255 | Business Finance | 3
BA 270 | Business Statistics | 3
BA 280 | Legal Environment | 3
BA 396 | Business Administration Problems | 3

**Total** | | 57

Prescribed subjects and credit hours required for the B.S.B.A. (Economics) follow:

| Subject | **Sem. Hrs.** | **L.D. U.D.** |
--- | --- | ---
Accounting | 6 | —
Business Administration | 9 | —
Economics | 6 24 | —
Humanities | 12 | —
Finances | 3 | —
Management and I.R. | 3 3 | —
Marketing | 3 | —

| Subject | **Sem. Hrs.** | **L.D. U.D.** |
--- | --- | ---
English Composition | 3 | —
Mathematics | 6 | —
Philosophy | — | 15
Science | 6 | —
Social Science | 6 | —
Theology | 6 | 6
Electives | 3 | —

**Total** | | 15

*Required, unless exempted through a test-out program. See page 40.
THE BACHELOR OF SCIENCE IN BUSINESS ADMINISTRATION (Finance)

The Bachelor of Science in Business Administration program in finance develops an appreciation in the student of financial management and financial operation. Every one majoring in finance must take three basic courses designed to acquaint him with the various financial records of the firm, the character and appraisal of corporate securities, and the financial techniques applicable to the various phases of this discipline. In addition, the student may choose elective subjects. This permits him to aim at a particular segment of finance such as corporate finance, security sales, etc. Certain courses are offered each semester. Others are cycled every other semester of every other year to provide the greatest diversification possible. Majors in finance will be offered opportunities to inspect various financial institutions and to meet with professionals in the field.

Students working for the B.S.B.A. (Finance) must complete these specified courses:

<table>
<thead>
<tr>
<th>Course No.</th>
<th>Subject</th>
<th>Sem. Hrs.</th>
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<tr>
<td>Fi 255</td>
<td>Business Finance</td>
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<tr>
<td>Fi 257</td>
<td>Quantitative Methods in Finance</td>
<td>3</td>
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<tr>
<td>Fi 265</td>
<td>Investments</td>
<td>3</td>
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<td>Fi 380</td>
<td>Cases and Problems in Finance</td>
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<td>Fi</td>
<td>Electives</td>
<td>9</td>
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<tr>
<td>Ac 100, 101</td>
<td>Principles of Accounting</td>
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<tr>
<td>Ec 101, 102</td>
<td>Principles of Economics</td>
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<td>Mk 100</td>
<td>Principles of Marketing</td>
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<td>Mg 100</td>
<td>Principles of Management</td>
<td>3</td>
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<td>IR 210</td>
<td>Human Resources</td>
<td>3</td>
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<td>Ec 250</td>
<td>Money and Banking</td>
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<td>BA 270</td>
<td>Business Statistics</td>
<td>3</td>
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<td>BA 280</td>
<td>Legal Environment</td>
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<tr>
<td>BA 396</td>
<td>Business Administration Problems</td>
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Total: ........................................... 54

Prescribed subjects and credit hours required for the B.S.B.A. (Finance) follow:

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<th>Subject</th>
<th>Sem. Hrs.</th>
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<td>Marketing</td>
<td>L.D. 3</td>
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<td>Mathematics</td>
<td>U.D. 6</td>
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<tr>
<td>Economics</td>
<td>U.D. 9</td>
<td>Philosophy</td>
<td>U.D. 15</td>
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<tr>
<td>English Composition</td>
<td>L.D. 3</td>
<td>Science</td>
<td>L.D. 6</td>
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<tr>
<td>Finance</td>
<td>L.D. 21</td>
<td>Social Science</td>
<td>L.D. 6</td>
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<td>Humanities</td>
<td>U.D. 12</td>
<td>Theology</td>
<td>U.D. 6</td>
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<tr>
<td>Management and L.R.</td>
<td>3</td>
<td>Electives</td>
<td>6</td>
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Total: ........................................... 15

*Required, unless exempted through a test-out program. See page 40.
THE BACHELOR OF SCIENCE IN BUSINESS
ADMINISTRATION (Industrial Relations)

In an industrial society which is becoming increasingly more complex and interdependent, the need for leaders in the area of industrial relations with a well-rounded professional training is a necessity. This program is designed to provide specific knowledge of labor and is supported by strong cultural background in the liberal arts. Concentration in industrial relations will acquaint the student with the economic, social, political, and psychological aspects of labor problems and relations. It also prepares him for further academic study and for positions in government, industry, or the labor movement.

Students working for the B.S.B.A. (Industrial Relations) must complete these specified courses:

<table>
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<tr>
<th>Course No.</th>
<th>Subject</th>
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<td>R 110</td>
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<td>R 110</td>
<td>Labor Relations</td>
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<td>Industrial Psychology</td>
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<td>Fi 255</td>
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<td>BA 270</td>
<td>Business Statistics</td>
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</tr>
<tr>
<td>BA 280</td>
<td>Legal Environment</td>
<td>3</td>
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<tr>
<td>BA 396</td>
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Prescribed subjects and credit hours required for the B.S.B.A. (Industrial Relations) follow:

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<td>Economics</td>
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<td>Finance</td>
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<td>Management and I.R.</td>
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<td>Social Science</td>
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<td>Electives</td>
<td>6</td>
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</tbody>
</table>

*Required, unless exempted through a test-out program. See page 40.
THE BACHELOR OF SCIENCE IN BUSINESS
ADMINISTRATION (Management)

Contributions of the business world to society are largely dependent on good management.

The objectives of this program are to facilitate such contributions by:

1. Providing specialized professional training in the principles and the practices for the effective operation of the business organization.
2. Stimulating the application of sound philosophical principles to the wide range of problems encountered by management.
3. Aiding in the development of the student’s intellect and personality to prepare him for leadership in society.

Students working for the B.S.B.A. (Management) must complete these specified courses:

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<thead>
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<th>Course No.</th>
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<tr>
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<td>Mg</td>
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<tr>
<td>Ac 100, 101</td>
<td>Principles of Accounting</td>
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<tr>
<td>Ec 101, 102</td>
<td>Principles of Economics</td>
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<td>Mk 100</td>
<td>Principles of Marketing</td>
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<tr>
<td>IR 210</td>
<td>Human Resources</td>
<td>3</td>
</tr>
<tr>
<td>Fi 250</td>
<td>Money and Banking</td>
<td>3</td>
</tr>
<tr>
<td>Fi 255</td>
<td>Business Finance</td>
<td>3</td>
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<tr>
<td>BA 270</td>
<td>Business Statistics</td>
<td>3</td>
</tr>
<tr>
<td>BA 280</td>
<td>Legal Environment</td>
<td>3</td>
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<tr>
<td>BA 396</td>
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Total: 54

Prescribed subjects and credit hours required for the B.S.B.A. (Management) follow:

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<td>Business Administration</td>
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<tr>
<td>Economics</td>
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<tr>
<td>Finance</td>
<td>6  6</td>
</tr>
<tr>
<td>Humanities</td>
<td>12  6</td>
</tr>
<tr>
<td>Management and I.R.</td>
<td>3  21</td>
</tr>
<tr>
<td>Marketing</td>
<td>3   6</td>
</tr>
<tr>
<td>Total</td>
<td>54</td>
</tr>
</tbody>
</table>

*Required, unless exempted through a test-out program. See page 40.
THE BACHELOR OF SCIENCE IN BUSINESS ADMINISTRATION (Marketing)

Marketing is the dynamic process by which individuals and organizations strive to anticipate and satisfy consumers' product needs and wants. In a free enterprise, freedom of choice society, this is accomplished through marketing research, product planning and pricing, promotion (advertising and selling), and distribution.

The marketing major develops an understanding of the concepts, functions and institutions of marketing, an appreciation of consumer orientation, and the ability to analyze marketing problems and formulate marketing policies.

This program is particularly relevant to the student planning a career in sales, advertising, consumer relations, merchandising, brand management, marketing management, marketing research, retailing, services, purchasing, business logistics, small business operations, executive management, consulting, business education, or work in certain government agencies.

Students working for the B.S.B.A. (Marketing) must complete these specified courses:

<table>
<thead>
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<th>Course No.</th>
<th>Subject</th>
<th>Sem. Hrs.</th>
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<td>Principles of Marketing</td>
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<td>Mk 201</td>
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<td>Mk 202</td>
<td>Marketing Research</td>
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<tr>
<td>Ac 100, 101</td>
<td>Principles of Accounting</td>
<td>6</td>
</tr>
<tr>
<td>Ec 101, 102</td>
<td>Principles of Economics</td>
<td>6</td>
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<td>Mg 100</td>
<td>Principles of Management</td>
<td>3</td>
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<td>IR 210</td>
<td>Human Resources</td>
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<tr>
<td>Fi 250</td>
<td>Money and Banking</td>
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<td>Fi 255</td>
<td>Business Finance</td>
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<td>BA 270</td>
<td>Business Statistics</td>
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<tr>
<td>BA 280</td>
<td>Legal Environment</td>
<td>3</td>
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<td>BA 396</td>
<td>Business Administration Problems</td>
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Prescribed subjects and credit hours required for the B.S.B.A. (Marketing) follow:

<table>
<thead>
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<th>Sem. Hrs.</th>
<th>L.D. U.D.</th>
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<td>—</td>
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<tr>
<td>Business Administration</td>
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<td>—</td>
</tr>
<tr>
<td>Economics</td>
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*Required, unless exempted through a test-out program. See page 40.
Departments —
The College of Arts and Sciences

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

Biology (BI)

Staff: DR. CUSICK, chairman; DR. HEDEEN, DR. HIGGINS, FR. PETERS, MR. PETRI, DR. TAFURI

Laboratory Instructors: MRS. CUSICK, MR. PECQUET

BI 102-109 may not be taken for biology major, pre-medical, or pre-dental requirements.

BI 110-111 and 112-113 are required as introduction to all 200 level courses. In exceptional cases, BI 102-105 may be considered as full or partial fulfillment. Additional prerequisites are listed with specific courses.

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

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

Lower Division Courses

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

*104 LIFE LABORATORY. (1) Each semester to accompany BI 102, 104 respectively. Exercises, experiments, and field trips.

106 HUMAN ANATOMY AND PHYSIOLOGY I. (2) The major human systems emphasizing, during this semester, the skeletal, muscular, digestive, and respiratory systems.

107 HUMAN ANATOMY AND PHYSIOLOGY I LABORATORY. (1) Human skeletal material and dissection of a representative mammal. Histology of tissues and organs with physiological exercises and demonstrations.

108 HUMAN ANATOMY AND PHYSIOLOGY II. (2) Continuation of BI 106 stressing the circulatory, excretory, nervous, endocrine, and reproductive systems.

109 HUMAN ANATOMY AND PHYSIOLOGY II LABORATORY. (1) Continuation of anatomical approach of BI 107 with emphasis on related physiological studies and demonstrations.

110 GENERAL ZOOLOGY I. (2) Principles of biology, classical and molecular, emphasizing the anatomy, physiology, development, and behavior of vertebrates. Introduction to most 200 level courses.

111 GENERAL ZOOLOGY I LABORATORY. (2) The frog and microscopic study of vertebrate tissues. Development and physiological characteristics of cells, tissues, organs, plus vertebrate behavior.


113 GENERAL ZOOLOGY II LABORATORY. (2) Each major phylum is studied with extensive use of living organisms. Genetic materials, fossils and invertebrate behavior patterns are examined.

114 INTRODUCTION TO THE LIFE SCIENCES. (3) Cells, heredity, ecology, and evolution. Plants and animal morphology and physiology, especially man. For B.S. (Elementary Education) curriculum only.

115 INTRODUCTION TO THE LIFE SCIENCES LABORATORY. (1) Exercises and field trips to illustrate principles of ecology, evolution, behavior, taxonomy, vertebrate organization, genetics, and cell biology.

120 GENERAL BOTANY. (3) The morphology, physiology, reproduction of representatives of each plant division are studied. Seed plants are stressed. Prerequisite: BI 102-105 or BI 110-113.

121 GENERAL BOTANY LABORATORY. (1) Living and preserved specimens of representatives of the various plant groups are studied. Demonstration of pertinent principles of plant physiology.

185 REVOLUTIONS AND COUNTER-REVOLUTIONS. (3) Interdisciplinary course concerning the evolution of biological knowledge during the 19th and 20th centuries. No prerequisites.

195 DIRECTED STUDY. Credit to be arranged.

Upper Division Courses

200 ADVANCED BOTANY. (2) Representatives of the various plant divisions stressing the physiology and reproduction of these organisms. The effects of plants on the activities of man. Prerequisite: BI 120-121.

201 ADVANCED BOTANY LABORATORY. (2) Plants in the field and laboratory. Aspects of plant physiology, together with methods of collecting, preserving, and identifying plants.

210 GENERAL MICROBIOLOGY. (2) The physiology and morphology of the algae, bacteria, and fungi. The beneficial and detrimental effects of these organisms to man and his environment.

211 GENERAL MICROBIOLOGY LABORATORY. (2) Methods of isolation and culture of the algae, bacteria, and fungi. Techniques of classification of these organisms.


231 GENETICS LABORATORY. (1) Techniques of investigating fundamental genetic principles. The fruit fly as an experimental animal with studies of bacterial genetics.

240 EVOLUTION. (2) Evidence for and the mechanisms of evolutionary processes. Prerequisite: BI 102-105 or BI 110-113.
HISTORY OF BIOLOGY. (2) The historical development of the biological sciences. Prerequisite: BI 102-105 or BI 110-113.

GENERAL ECOLOGY. (2-3) The relationships between organisms and their living and non-living environments. Prerequisite: BI 102-105 or BI 110-113.

INVERTEBRATE ZOOLOGY. (2) Characteristics, life cycles, habits, economic importance, and evolution of invertebrate animals.

INVERTEBRATE ZOOLOGY LABORATORY. (2) Systematic study of the invertebrate phyla using fixed preparations: preserved specimens, and living forms.

GENERAL ENTOMOLOGY. (2) Structure, life histories, habits, habitats of insects.

GENERAL ENTOMOLOGY LABORATORY. (2) The morphology and classification of the major orders of insects including some field experience in various collecting methods.

TOPICS IN BIOLOGY. (1-3) Short term courses designed to explore biological phenomena of current interest. Prerequisite: BI 102-105 or BI 110-113.

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

GENERAL AND VERTEBRATE EMBRYOLOGY. (2) The morphological and physiological aspects of vertebrate development.

INVERTEBRATE EMBRYOLOGY LABORATORY. (2) A study of gametogenesis, fertilization, cleavage, gastrulation, and organogenesis. Living materials illustrate principles of development.

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

COMPARATIVE ANATOMY OF THE VERTEBRATES LABORATORY. (2) Observation and analysis of structure and function in relation to adaptations, and to the development of dissecting skills.

VERTEBRATE GENERAL HISTOLOGY. (2) Animal tissues; structure and function as revealed by light microscopy, electron microscopy, and histochemistry. Prerequisite: Senior standing or permission of instructor.

VERTEBRATE GENERAL HISTOLOGY LABORATORY. (2) A microscopic study of fixed materials employing routine and histochemical techniques to demonstrate cell, tissue, and organ morphology.

BIOLOGICAL BASIS OF ANIMAL BEHAVIOR. (2-3) Functions of receptors, central nervous system, and effectors involved in the responses of animals to environmental changes.

BIOLOGICAL BASIS OF BEHAVIOR LABORATORY. (1-2) Gross and microscopic structure of adult and developing vertebrate nervous systems. Use of instrumentation to modify the environment and record responses.

GENERAL VERTEBRATE PHYSIOLOGY. (2) Contraction, perception, digestion, metabolism, circulation, respiration, coordination and excretion in vertebrates. Prerequisite: BI 110, 112, senior standing, or permission of instructor.

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

BIOCHEMISTRY. (3) (Ch 370).

DIRECTED STUDY. Credit to be arranged.

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

METHODS OF BIOLOGICAL RESEARCH. (1-2) A continuation of BI 398 emphasizing experimental design and controls together with the written and oral presentation of scientific reports.
111 GENERAL CHEMISTRY I LABORATORY. (1) Practice in the basic operations of chemical laboratory work. Experiments illustrate topics and principles covered in Ch 110. One three-hour period per week.

112 GENERAL CHEMISTRY II. (3) A continuation of Ch 110. Subjects include aqueous equilibrium, thermodynamics, electrochemistry, and the chemistry of representative elements. Prerequisite: Ch 110.

113 GENERAL CHEMISTRY II LABORATORY. (1-2) A continuation of Ch 111. The laboratory work includes qualitative and quantitative inorganic analysis. One or two three-hour periods per week. Prerequisite: Ch 111.

120 PRINCIPLES OF PHYSICAL CHEMISTRY. (3) For students in the life sciences, education and B.S. Chemical Science programs. Aspects of physical chemistry most relevant to living systems. Prerequisite: Ch 112.

121 ANALYTICAL CHEMISTRY. (1) Laboratory course. Basic concepts. Application of wet and instrumental analytical methods to substances of clinical interest. Prerequisite: Ch 113.

130 PHYSICAL CHEMISTRY I. (3) An introduction to theoretical chemistry with emphasis on thermodynamics and chemical equilibrium. Prerequisites: Ch 112, Mt 120, and Ph 108.

131 PHYSICAL CHEMISTRY I LABORATORY. (1) A course to accompany Ch 130 and to illustrate by means of selected experiments principles discussed in Ch 130. Prerequisite: Ch 113.

132 PHYSICAL CHEMISTRY II. (3) A continuation of Ch 130. Chief emphasis is on chemical kinetics and the states of matter. Prerequisite: Ch 130.

133 PHYSICAL CHEMISTRY II LABORATORY. (1) A course to accompany Ch 132 and to illustrate, by selected experiments, principles discussed in Ch 132. Prerequisite: Ch 131.

140 ORGANIC CHEMISTRY I. (3) An introductory course treating of the structure, preparation, reactions, and properties of organic compounds. Prerequisite: Ch 112.

141 ORGANIC CHEMISTRY I LABORATORY. (1) The practice of fundamental operations involved in the synthesis, separation, purification, and identification of organic compounds. Prerequisite: Ch 113.

142 ORGANIC CHEMISTRY II. (3) A continuation of Ch 140 which extends the treatment of fundamental organic chemistry. Some special topics are included. Prerequisite: Ch 140.

143 ORGANIC CHEMISTRY II LABORATORY. (1) A continuation of the laboratory work of Ch 141 with increased emphasis on the reactions and synthesis of organic systems. Prerequisite: Ch 141.

190 CHEMICAL LITERATURE. (1) An introduction to the nature and use of the chemical literature, general research procedures, and technical report writing. Prerequisite: junior standing.

Upper Division Courses

230 PHYSICAL CHEMISTRY III. (2) An introduction to quantum chemistry, kinetic theory, and molecular structure. Prerequisite: Ch 132.
340 **TOPICS IN ORGANIC CHEMISTRY.** (2) An extension of fundamental organic chemistry to include more specialized topics not previously considered or extensively treated. Prerequisite: Ch 142.

370 **BIOCHEMISTRY.** (3) A lecture course treating of the chemistry and biochemistry of carbohydrates, lipids, and proteins. Special topics are included as time permits. Prerequisite: Ch 142.

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

**Graduate Courses**

500 **GRADUATE CHEMISTRY SEMINAR.** No credit. Critical discussion of, and progress reports on, theses and special topics by graduate students and staff members. Required each semester for all full-time graduate students.

520 **RADIOCHEMISTRY.** (2) Principles of radiochemistry, properties of nuclides, advanced instrumental techniques, and methodology of radiochemical applications. Prerequisite: Ch 320 or its equivalent.

521 **RADIOCHEMISTRY LABORATORY.** (1-2) Laboratory and instrumental technique in radiochemistry. Prerequisite: Ch 320. Corequisite: Ch 520.

525 **THERMODYNAMICS.** (2) Classical and statistical thermodynamics and the kinetic theory of gases.

530 **CHEMICAL KINETICS.** (2) Subjects covered include collision and transition state theories, experimental methods, and the differential and integrated rate expressions for a variety of mechanisms.

535 **THE CHEMICAL BOND.** (2) An introduction to the quantum theory of valence emphasizing calculations on molecular structure.

538 **INTRODUCTION TO VIBRATIONAL SPECTROSCOPY.** (2) The theory of vibrational-rotational molecular spectroscopy.

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

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

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

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

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

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

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

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

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

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

650 **CHEMICAL SEPARATIONS.** (2) Methods of chemical separation and their application in chemical analysis. Emphasis to be placed on the theory, techniques, and applications of current importance.

670 **CHEMICAL MEASUREMENTS.** (2) Methods for measuring the properties of chemical systems. Modern methods will be stressed, especially those based on the optical and electrical properties of systems.

680 **INSTRUMENTAL METHODS.** (1-2) A lecture and laboratory course to prepare the student for graduate study and research. Laboratory work consists of practice in the use of available instruments.

685 **SYNTHESIS AND CHARACTERIZATION OF CHEMICAL COMPOUNDS.** (2) Laboratory course. Synthesis of organic and inorganic materials. Demonstration of their identity and purity. Prerequisite: Ch 680 or equivalent.

690 **SPECIAL TOPICS.** (2) Selections from the four major fields of chemistry. Varied topics representative of important phases of chemistry not treated in regular course work.

692 **SPECIAL STUDY.** (1) A short-term lecture series on special topics, emphasizing continuing education for practicing scientists. May be taken as a lecture series without credit.

699 **MASTER'S THESIS.** (6) Laboratory and library research under the supervision of a departmental research advisor. A final written thesis is required for those desiring the Master's degree in chemistry.

**Classical Languages**

*Staff*: DR. MURRAY, chairman; FR. BURKE, FR. FELTEN, DR. HARKINS, DR. RETTIG

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

**Classical Culture (CI)**

*Upper Division Courses*

201 **CLASSICAL ARCHAEOLOGY.** (3) (Hs 201).

202 **HISTORY OF ANCIENT GREECE.** (3) (Hs 202).

204 **CHRISTIAN ANTIQUITY.** (3) (Hs 204).
Upper Division Courses

206 HISTORY OF ANCIENT ROME. (3) (Hs 206).
207 CONSTITUTIONAL HISTORY OF ROME. (3) (Hs 207).
241 GREEK LITERATURE IN TRANSLATION. (3) (En 241).
244 LATIN LITERATURE IN TRANSLATION. (3) (En 244).
248 CLASSICAL MYTHOLOGY. (3) (En 248).
333 MEN AND IDEAS OF GREECE AND ROME. (3)
345 INTRODUCTION TO THE CHURCH FATHERS. (3) (Th 345).
395 DIRECTED STUDY. Credit to be arranged.

Greek (Gk)

Lower Division Courses

101 ELEMENTARY GREEK. (5) One semester.
102 INTRODUCTION TO GREEK LITERATURE. (5) One semester.
107 XENOPHON. (3)
108 ST. LUKE. (3)
112 HERODOTUS: SELECTED READINGS. (3)
117 LYSIAS: SELECTED READINGS. (3)
123 GREEK PROSE COMPOSITION I. (3)
124 GREEK PROSE COMPOSITION II. (3)
151 HOMER. (3) Readings from *The Iliad*.
152 HOMER. (3) Selected portions of *The Odyssey*.
162 EURIPIDES: MEDEA. (3)
172 PLATO. (3) *The Apology* and other selections.

Upper Division Courses

201 CLASSICAL ARCHAEOLOGY. (3) (Hs 201, Lt 201).
202 HISTORY OF ANCIENT GREECE. (3) (Hs 202).
204 CHRISTIAN ANTIQUITY. (3) (Hs 204).
207 XENOPHON. (3)
208 DEMOSTHENES: PHILIPPICS AND OLYNTHIACS. (3)
212 HERODOTUS. (3)
217 LYSIAS. (3)
248 CLASSICAL MYTHOLOGY. (3) (Lt 248, En 248, Cl 248).

Latin (Lt)

Lower Division Courses

101 ELEMENTARY LATIN. (5)
102 INTRODUCTION TO LATIN LITERATURE. (5)
113 LATIN COMPOSITION I. (3)
114 LATIN COMPOSITION II. (3)
115 INTERMEDIATE LATIN. (3) Review of grammar with special emphasis on reading and composition.
117 PHILOSOPHICAL LATIN. (3) An intensive review of basic syntax intended to prepare students for the reading of philosophical texts in Latin.
120 THEOLOGICAL LATIN. (3) Graded readings selected from the Latin Fathers and theological authors.
128 CICERO. (3) *The De Senectute* and/or *The De Amicitia*.
131 HORACE: ODES. (3)
151 VIRGIL: AENEID I-VI. (3)
153 VIRGIL: AENEID VII-XII. (3)
161 PLAUTUS AND TERENCE. (3) Selected readings.

Upper Division Courses

201 CLASSICAL ARCHAEOLOGY. (2-3) (Hs 201, Gk 201).
Classics

*206 HISTORY OF ANCIENT ROME. (3) (Hs 206).
*207 CONSTITUTIONAL HISTORY OF ROME. (3) (Hs 207).
*211 LIVY. (3)
*212 TACITUS: AGRICOLA, GERMANIA. (3)
*214 LATIN PROSE STYLE. (3)
*220 CICERO: PRO ARCHIA, PRO LEGE MANILIANA, AND PRO MARCELLO. (3)
*221 CICERO: PRO MILONE. (3)
*222 INTRODUCTION TO A STUDY OF THE LATIN FATHERS. (3)
*231 HORACE: ODES. (3)
*248 CLASSICAL MYTHOLOGY. (3) (Gk 248, En 248, Cl 248).
*251 VIRGIL: AENEID. (3)
*261 ROMAN COMEDY. (3)
301 ROMAN ORATORY. (3)
309 PLINY: SELECTED LETTERS. (3)
*312 TACITUS: THE ANNALS. (3)
313 ADVANCED LATIN COMPOSITION. (3)
314 LATIN STYLE. (3)
*318 ROMAN HISTORIANS. (3)
*319 CICERO: LETTERS. (3)
*327 ROMAN METRICS. (3)
*328 CICERO: ESSAYS. (3)
*331 HORACE: SATIRES, EPISTLES. (2-3)
*332 CATULLUS. (3)
*335 EARLY CHRISTIAN POETS. (3)
*338 MEDIAEVAL LATIN. (3)
*355 JUVENAL. (3)
*356 ROMAN SATIRE. (3)
*371 CICERO: TUSCULAN DISPUTATIONS. (3)
*372 CICERO: DE OFFICIIS. (3)
*388 HISTORY OF LATIN LITERATURE. (3)
*391 LUcretius. (3)
*397 SPECIAL STUDY. Credit to be arranged. Latin poetry.
*398 SPECIAL STUDY. Credit to be arranged. Latin prose.
399 SENIOR COMPREHENSIVE REVIEW. (2-3)
Communication Arts (CA)

Staff: FR. FLYNN, chairman; MR. ADRICK, FR. HAGERTY, MR. KVAPEL, DR. LUNSFORD, MR. MAUPIN

Assisted by: MR. BENKERT, MR. GUSHURST, MR. POHLMAN, MR. PRITCHETT, Mr. WILSON

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

Basics

*101 ORAL COMMUNICATION. (3) Speech fundamentals as applied to interpersonal, public and group speaking. Projects in listener analysis, development of ideas, and delivery.

102 VOICE AND DICTION. (3) Principles and practice of voice production as applied to expression and vocal variety. Articulation according to IPA and dictionary usage.

122 WRITTEN COMMUNICATIONS AND REPORTS. (3) Basic written communication. Effective business letters and reports. Devices of practical communication.

*200 INTERPERSONAL COMMUNICATION. (3) Understanding of and laboratory practice in effective communication between persons.

201 ORAL INTERPRETATION. (3) Projection, body control, communication of mood and emotion, and vocal amplification as related to public reading. Prerequisite or corequisite: CA 101, 102, or approval of chairman.

*202 SURVEY OF MASS MEDIA. (3) Organization and functioning of newspapers, magazines, radio, television, film, and other mass media.

*203 COMMUNICATION THEORY. (3) Nature, purpose, scope, and process of communication. Models, learning, language, and some theories of communication.

*204 THEORIES OF MASS MEDIA. (3) Models and processes of mass communication. Reciprocal effects of media and audiences. Theorists studied: McLuhan, Lasswell, Katz and Lazarsfeld. Prerequisite: CA 203 or approval of teacher.

206 EFFECTIVE WRITING. (3) Basic elements of compositional style. Format for research writing. Open only to CA majors.

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

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

266 INTERVIEWING. (3) Interpersonal situations as related to exercises in varied kinds of interviews. Preparation and participation in classroom and extra-classroom interviews.

Film

208 SMALL CAMERA TECHNIQUES. (3) Lecture-lab experience to improve skills in creating and developing quality photographs.

209 PHOTOGRAPHY FOR PRE-MEDS. (1) Microphotography and copying techniques.

*211 ART OF THE FILM. (3) Film as an art form, treating grammar, sound, light, motion, animation, editing, methods, and directors. Each student will make a short film connected with lab sessions. Lab fee.


213 FILM COMMUNICATION. (3) Visual communication components: direction, line, color, shape, value, texture, etc. Visual components in pictures. Students will make a short film from 35mm stills. Lab fee.

*214 FILM CRITICISM. (3) Cultivating criteria for judging films, from viewing, analysis, reviews, and student critiques. Pre- or corequisite: CA 211 or 213. Lab fee.

215 NON-FICTION FILM. (3) Documentary techniques of Grierson, Flaherty, and others. Methods used in the propaganda films with Riefenstahl and Capra. Students will make a specimen film. Lab fee. Pre- or corequisite: CA 211 or CA 213.

216 FILM MAKING TECHNIQUES. (3) Basic studies in the making of a film—economic, social, and technical, planning, shooting, and editing. Students will make short films. Lab fee.


Radio-Television

218 BROADCAST STATION MANAGEMENT. (3) Study of station management, organization, and operational techniques.

219 BROADCAST STATION SALES. (3) Marketing functions related to broadcast stations. Principles, problems and solutions as to methods and techniques of audience research bearing on prices and sales. (Mk 219).

220 BROADCAST ANNOUNCING. (3) Career and qualifications. Principles, preparation and delivery of announcements, newscasts, and other projects. Lab work in WVXU-FM and XU-TV studios. Pre- or corequisite: CA 102 or approval of instructor.

*221 FUNDAMENTALS—RADIO-TV. (3) American and foreign broadcasting systems bearing on technical, legal, and economic factors. Relations to programming, public responsibility, and mass audience research.

222 CONTINUITY WRITING. (3) Announcement and program writing for radio and television. Broadcast styles, scripts, and formats. Prerequisite: CA 206 or En 101 or equivalent.
Communication Arts

223 RADIO PRODUCTION. (3) Basic radio composition. Audio techniques of program elements for commercials, drama, documentary and musical production, related to commercial, educational, and public broadcasting. Lab work in connection with WVXU-FM.

224 BASIC EQUIPMENT OPERATION. (3) Tools, techniques, and skills of radio and television production from an operational standpoint. On-the-job experiences from taping the XU TV Institute.

225 BASIC TV DIRECTION-PRODUCTION. (3) Procedures and techniques of program production by director and crew. The director, control room directing, and team cooperation. Programs are produced for regular airing. Pre- or corequisite: CA 224.

226 ADVANCED TV DIRECTION-PRODUCTION. (3) Theories and techniques of control room directing: staging, pacing, acting, dramatic effect, audience influence, and analysis of professional productions. Lab. Prerequisites: CA 224 and CA 225.

228 EDUCATIONAL TELEVISION. (2-4) (Ed 228). No prerequisite.


230 SPECIAL EFFECTS: TV PRODUCTION. (3) Application of film, graphics, animation, lighting, studio and electronic effects to production of programs. Lab work in campus TV Studios and in Dana Film Studios. Prerequisite CA 224 or 229.

Theatre

*231 HISTORY OF THE THEATRE. (3) Theatrical practice in the western world from Greek to current times. Theatre and staging techniques.

232 ACTING TECHNIQUES. (3) Pantomime, improvisation, coordinating speech and movement, grouping, tempo rhythm and line reading. Lab work. Prerequisite: CA 102 or approval of instructor.

233 PLAY DIRECTING. (3) Basic directing. Interpreting a play in oral and visible form. Student participation in direction and stage management. Lab work.

234 STAGECRAFT: THEATRE AND TV. (3) Stagecraft for theatre and television. Construction and painting. Projects coordinated with television and theatrical productions. Lab work.

235 PLAY PRODUCTION. (3) The elements of production: organization, analysis and selection of plays, rehearsal and technical problems. Lab work.

237 LIGHTING: THEATRE, TV, FILM. (3) Lighting instruments, control units, and color. Theories on illumination for stage, television, and film studios. Lab work coordinated with campus productions.

*238 THEATRE APPRECIATION. (3) The play as a composite art.

Journalism


243 RADIO-TV NEWS WRITING. (3) Style and techniques of writing for radio and television. The visual content of television and news shows.

249 JOURNALISM FOR TEACHERS AND PUBLICATIONS ADVISORS. (3) Fundamentals of journalism. Writing, copy editing, headline writing and make-up applied to school publications.

Public Relations


Communication-Speech

261 PERSUASION. (3) Logical, psychological, and personal appeals to influence belief, attitude, and behavior. Major forms of persuasive speaking. Prerequisite: approval of instructor.

*265 CREATIVE SPEAKING. (3) Aristotle's logical, emotional, and ethical appeals of speech rhythm and of personal idiom. Distinctive American speeches since 1932. Prerequisite: approval of instructor.

*269 HISTORY OF COMMUNICATION. (3) Man's efforts to exchange and record messages from primitive ages to our own times. Systems and methods, pictogram, ideogram, alphabet, language, printing, telegraphy, wireless, and television.

*312 MORALITY AND MASS MEDIA. (3) (Th 312).
360 COMMUNICATION: SMALL GROUP DYNAMICS. (3) Communication characteristics of the small group, emergence of leadership, networks, interaction of members, group decisions, communication roles, and problem solving. (Ed 360).

365 CURRENT DIALOGUE: ISSUES AND SPEAKERS. (3) Case study, Contemporary vital issues. Ideas about effective communication. TV talk shows, news programs, contemporary addresses and campaigns by prominent speakers.

Practicums
(CA Undergraduates Only)

Three hours of weekly lab or privately directed study merit one hour of credit. Arrangements to be made with instructor before registration, requiring written approval of chairman. Repeatable up to four hours. Prerequisite: a background of courses in a specific area.

271 PRACTICUM IN FILM. (1)
272 PRACTICUM IN RADIO-TELEVISION. (1)
273 PRACTICUM IN THEATRE. (1)
274 PRACTICUM IN JOURNALISM. (1)
275 PRACTICUM IN PUBLIC RELATIONS. (1)
276 PRACTICUM IN SPEECH. (1)

Institutes and Workshops

281 INSTITUTE: TEACHING FILM ART. (Summer Intersession only.) (2) The grammar, technology, business, content, and art of film. Lectures and film.
282 INSTITUTE: FILM—SIGNIFICANT FOREIGN DIRECTORS. (Summer Intersession only.) (2) Lectures and films.
283 WORKSHOP: CLASSROOM USE OF EDUCATIONAL TV. (Summer Intersession only.) (2) Coordination of classroom teaching and television instruction.
287 INSTITUTE: FILM—SIGNIFICANT AMERICAN DIRECTORS. (Summer Intersession only.) (2)
288 INSTITUTE: MEDIA TRAINING. (Summer only.) (2) Audio and video studio operations. Use of graphics.

Educational Media


291 VISUAL COMMUNICATIONS DESIGN. (3) Visualization in the communication process. Research, selection, and utilization of visual material. Evaluation of visual communication. (Ed 291).

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

Special Study

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

Corrections (Cr)

Staff: MR. HAHN, director; MR. DALLMAN, MR. DENTON, MR. FARMER, MR. FORD, MR. O'CONNOR, MR. OVERBERG, MR. PALMER, MR. RICHARDSON, MR. ZIMMERMAN
Assisted by: DR. BERG, MR. S ETA

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

Upper Division Courses

*266 CRIME AND PERSONALITY. (3) (Ps 266, Ed 266).
276 PSYCHOLOGY OF DELINQUENCY. (2) (Ps 276, Ed 276).
395 DIRECTED STUDY. Credit to be arranged.

Graduate Courses

501 FOUNDATIONS OF CORRECTIONS. (3) Basic principles, history, current philosophies, and methodology. A survey and critique.
503 INSTITUTIONAL CORRECTIONS. (3) Treatment methods and custodial care in correctional institutions for juveniles and adults.
505 NON-INSTITUTIONAL CORRECTIONS. (3) Probation and parole principles and techniques, along with the use of psychiatric clinics, group therapy, and auxiliary services for juvenile and adult offenders.
510 LEGAL ASPECTS OF CORRECTIONS. (2) Laws related to the field of corrections. Recent Supreme Court decisions. The lawyer's role in relation to client and correctional workers. Prerequisite: Cr 501.
533 INTERVIEWING AND COUNSELING IN CORRECTIONS. (2) Principles and methodology including use of authority and crisis intervention.
540 CORRECTIONAL ADMINISTRATION. (2) Management problems in corrections. Budget, personnel, public relations. Prerequisite: Cr 501.
550 ALCOHOL AND CRIMINALITY. (2) Basic concepts of alcohol abuse related to the public offender.
Economics (Ec)

Staff: DR. MASTRIANNA, chairman; FR. BESSE, DR. H. BRYANT, DR. CLICKNER, DR. DONNELLY, DR. HAILSTONES, DR. LINK, MR. ROTHWELL, DR. SCHULTZ, DR. ZIMMERMAN

Assisted by: DR. FREIBERG, MR. KEHR, DR. MAMMEL, MR. MARTIN, DR. THIEMANN, DR. WEBB

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

Lower Division Courses

*101 PRINCIPLES OF ECONOMICS. (3) General economic activity. National income, employment, money and banking, business fluctuations, and economic stability. The economy as a whole is examined.

*102 PRINCIPLES OF ECONOMICS. (3) Market forces of supply and demand in allocating the nation’s resources and securing efficiency in their use. Economic behavior of consumers, firms, and resource owners.

Upper Division Courses

200 MICROECONOMIC ANALYSIS. (3) Economic principles. Fundamental concepts of value and price, rent, interest, wages and profits. Relationship to problems of production, distribution, and exchange. Prerequisite: Ec 102.

201 MACROECONOMIC ANALYSIS. (3) The determinants of Gross National Product, employment levels, and rates of economic growth. The developing body of modern macroeconomic theory. Prerequisite: Ec 101.


*210 HUMAN RESOURCES. (3) (IR 210, Mg 210). Prerequisite: Ec 101 or 110.

222 ECONOMETRICS. (3) Economic theory, statistical methods, and the calculus to numerical economic data. Demand, cost, production, and other economic functions are analyzed. Prerequisite: Mt 112.

232 MATHEMATICS FOR ECONOMISTS. (3) Functions of variables. Maxima and minima of functions. Applications of series, differential equations, and difference equations to economic problems. Prerequisite: Mt 122.

*235 ECONOMIC HISTORY OF THE UNITED STATES. (3) The American economy from the period of colonization. The progress of population, agriculture, industry, domestic and foreign commerce, banking and finance, and transportation.

240 ECONOMIC GEOGRAPHY. (3) The economic implications of natural resources. Production of goods in relation to the development of agriculture, commerce, and industry in the United States and foreign countries.

245 URBAN ECONOMICS. (3) Interdisciplinary. Tools for problem solving. Forces leading to urbanization and differing rates of growth in urban areas. Affluence, equity, and stability are investigated. (Po 245).

250 MONEY AND BANKING. (3) (Fi 250). Prerequisite: Ec 101 or 110.

300 LABOR RELATIONS. (3) (IR 300).

310 CURRENT LABOR PROBLEMS. (3) (IR 310).

311 HISTORY OF THE LABOR MOVEMENT. (3) (IR 311).

313 LABOR LEGISLATION. (3) (IR 313).

*320 ECONOMIC THEORY AND SOCIAL ORDER. (3) Economics and Christian ethics. The Encyclicals. The businessman and a code of ethics founded on Christian principles. Prerequisite: Ec 100 or 110.


335 PUBLIC FINANCE AND TAXATION. (3) Forms of taxation; incidence of taxation; borrowing; non-tax revenues; expenditures; the effects of government finance on the economy. (Po 335, Fi 335). Prerequisite: Ec 101.

*341 COMPARATIVE ECONOMIC SYSTEMS. (3) Origin and development of economic systems. Their operations and purposes. Socialism, Fascism, Communism, and Capitalism.


348 ECONOMICS OF TRANSPORTATION. (3)

*360 CURRENT ECONOMIC PROBLEMS. (3) Current problems: labor, monetary and fiscal policy, debt management, social security legislation and public regulation.
Economics

397 TUTORIAL COURSE. (2-3) Special reading and study for advanced students. Other courses are acceptable for a major in economics at the discretion of the Chairman or the student's advisor.

Graduate Courses

521 MICROECONOMICS: THEORY AND APPLICATIONS. (3) The economic principles of price theory. Analyses are conducted within a framework of traditional and modern contributions in the field. (BA 521).


530 MANAGERIAL ECONOMICS. (3) Economic analysis as applied to practical business operation. Tools of economic analysis; types of economic competition and their effect on individual firms and industries. (BA 530).

531 BUSINESS FORECASTING. (3) (BA 531).

535 BUSINESS AND PUBLIC POLICY. (3) (BA 535).

538 ECONOMICS OF LABOR. (3) Determinants of the competitiveness of labor markets; study of economic determinants of employment levels. Seminar method is used. (BA 538).

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

540 ECONOMIC GROWTH AND DEVELOPMENT. (3)

544 INTERNATIONAL ECONOMIC PROBLEMS. (3)

546 LOCATION OF BUSINESS AND INDUSTRIAL ACTIVITY. (3) (BA 546).

548 TRANSPORTATION ECONOMICS. (3)

550 PROBLEMS IN BUSINESS FINANCE. (3) (BA 550).

552 INVESTMENT MANAGEMENT. (3) (BA 552).

556 MONETARY INSTITUTIONS AND POLICY. (3)

558 FISCAL POLICY AND PUBLIC FINANCE. (3)

612 SEMINAR: COLLECTIVE BARGAINING. (3) (BA 612).

690 BUSINESS AND SOCIETY. (3) (BA 690).

695 SPECIAL STUDY. Credit by arrangement.

697-698 RESEARCH SEMINAR. (6)

699 MASTER'S THESIS. (6)

Education (Ed)

Staff: DR. SCHWEIKERT, chairman; DR. ANDERSON, MR. BAKER, MR. BRUENEMAN, DR. N. BRYANT, DR. CLARKE, DR. COSGROVE, MR. DAILY, DR. Dickey, MRS. DRENNAN, MR. DICK, DR. GAFFNEY, DR. HANNA, DR. HELM ES, DR. KLEIN, MR. LAGRANGE, DR. LINK, DR. LOZIER, DR. MAYANS, DR. MCCOY, MISS McDermott, DR. PARTRIDGE, MR. POHLMAN, DR. RINSKY, DR. RIOR DAN, MRS. ROTHCHILD, MR. SCHEURER, MR. SULLIVAN, DR. VORDENBERG, DR. WUBBOLDING.

Assisted by: MR. BOLSEN, MR. BLACKWELL, MR. BRAUN, MR. BRITTON, DR. BOO THE, MR. DRAUD, DR. GAROFALO, SR. HABIG, MR. HILVERS, MR. HITCHENS, DR. HOGAN, MR. G. JACOBS, MR. MATTHEWS, DR. MEIER, MISS MICKEL, MR. NEFF, MR. PICKERING, MRS. PRESSMAN, MR. ROBBINS, MR. SETA, MR. W. SMITH, MR. SORIANO, MR. SOWELL, DR. VARLAND, MR. WERNER, MRS. WERNERSBACH, MRS. WESSEL, and the Department of Psychology.

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

Lower Division Courses

131 PRINCIPLES OF EDUCATION. (3) The role of the school in society.

*141 EDUCATIONAL PSYCHOLOGY. (3) Psychological principles applied to learning and teaching. (Ps 141).

Upper Division Courses

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

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

202 SECONDARY CURRICULUM AND EVALUATION. (3) Functions of secondary education; curricular experiences; new technology as applied to the curriculum. Classroom evaluation techniques.

203 STUDENT TEACHING (SECONDARY). (6) Laboratory experience in high school teaching under the supervision of a critic teacher for one semester. UNDERGRADUATE CREDIT ONLY.

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

205 PLANNED OBSERVATION (SECONDARY). Credit to be arranged. UNDERGRADUATE ONLY.

206 PLANNED OBSERVATION AND PARTICIPATION. (3) A special course offered only to students preparing to be school psychologists. UNDERGRADUATE CREDIT ONLY.
207 TEACHING INTERNSHIP (SECONDARY). (6) Open only to fully employed graduate students. The teacher is supervised by a clinical professor in the student's area of major competency. A 30-clock-hour seminar is part of the internship. Ed 548: Current Problems of Secondary Education (2) must be taken as a supplement to the internship. UNDERGRADUATE CREDIT ONLY.

208 TEACHING INTERNSHIP (ELEMENTARY). (6) Description is the same as 207. Ed 304 Seminar: Professional Problems in Elementary Education two credit hours, is required concurrently. UNDERGRADUATE CREDIT ONLY.

210 SECONDARY CURRICULUM, EVALUATION, AND METHODS. (6) An integrated curriculum, evaluation, and methods course including observation and in-school activities. Materials fee $10.00.

214 METHODS OF TEACHING READING. (3) Developmental process of reading. Reading as an art of communication, as a perceptual-conceptual process. Reading in the content areas.

215 DEVELOPMENTAL READING IN THE SECONDARY SCHOOLS. (3)

216 DIAGNOSTIC READING INSTRUCTION. (3) Practical reading techniques and instruments for diagnosis of groups or individual students. Determining reading level and potential by the pre-service teacher. Plans implementing programs of remediation and enrichment.

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

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

226 CHILDREN’S LITERATURE. (3) Interpretive and critical study of literature, classic and contemporary, for children and/or adolescents. (En 226).

227 ADOLESCENT LITERATURE. (3)

228 EDUCATIONAL TELEVISION. (2-4) (CA 228).

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

*231 DEVELOPMENTAL PSYCHOLOGY. (3) (Ps 231).

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

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

235 DIFFERENTIAL PSYCHOLOGY. (2) (Ps 235).

237 PSYCHOLOGY OF LEARNING. (3) (Ps 237).

239 PSYCHOLOGY OF MOTIVATION. (3) (Ps 239).

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

*253 THE SCHOOL AND THE BLACK COMMUNITY. (3) (So 253).

*261 SOCIAL PSYCHOLOGY. (2) (Ps 261, So 261).

262 SOCIAL DYNAMICS OF COMMUNICATION. (2) (Ps 262, So 262).

263 THEORIES OF PERSONALITY I, II. (4) Two semesters.

264 (See Ps 263-264).

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


272 GUIDING THE EMOTIONALLY DISTURBED CHILD. (2) Total programming for severely disturbed youngsters. Behavioral maladaptations within group settings. Modification resources. Physical, psychological, and sociological causes.

273 EDUCATING THE DISTURBED CHILD. (2) Special methods, materials, and curricula for a therapeutic, educational atmosphere. Behavioral modification and classroom management techniques.

274 MENTAL HYGIENE. (2) (Ps 274).

275 DYNAMIC PSYCHOLOGY. (2) (Ps 275).


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

283 PRACTICUM IN PSYCHOLOGICAL TESTING. (2-3) (Ps 283).

290 AUDIOVISUAL COMMUNICATION. (3) (CA 290).

291 VISUAL COMMUNICATION DESIGN. (3) (CA 291). Prerequisite: Ed 290. Fee $15.00.

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

300 ELEMENTARY CURRICULUM. (3) Considers elementary school in school system and society and relates curriculum thereto.

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

302 ELEMENTARY METHODS AND MATERIALS II. (4) Integrated course in language arts and social studies. Prerequisite: Ed 300. Materials fee $10.00.

304 SEMINAR: PROFESSIONAL PROBLEMS IN ELEMENTARY EDUCATION. (2) May be taken in conjunction with Ed 204.

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

313 ART IN THE ELEMENTARY SCHOOL. (1) Taken concurrently with Ed 301.
314 **MUSIC IN THE ELEMENTARY SCHOOL.** (1) Methods and materials used in elementary school instruction. Students must implement various techniques. Taken concurrently with Ed 301.

315 **NEW MATHEMATICS: ELEMENTARY SCHOOL TEACHERS.** (3) The modern mathematics curriculum in the elementary school. Materials, methods, and content.

316 **NEW MATHEMATICS: SECONDARY SCHOOL TEACHERS: ALGEBRA.** (3) (May replace Ed 201 for teachers of Mathematics.)

317 **TEACHING HIGH SCHOOL ENGLISH.** (3) (May replace Ed 201 for teachers of English.)

318 **LINGUISTICS FOR TEACHERS.** (3)

320 **NEW TRENDS IN TEACHING SCIENCE.** (3) Materials fee $5.00.

322 **CONTEMPORARY SCIENCE CURRICULUM PROJECTS: INTERMEDIATE AND JUNIOR HIGH.** (3) Materials fee $5.00.


326 **FRENCH TEACHING: PRACTICUM AND CRITIQUE.** (3) (Fr 326).

327 **SEMINAR: GERMAN LANGUAGE CULTURE.** (3) (Gr 327).

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


333 **RELIGIOUS EDUCATION: TOTAL APPROACH.** (3) (Th 333).

334 **ADOLESCENCE AND RELIGIOUS EDUCATION.** (3) (Th 334).

335 **CONTENT AND METHOD: SECONDARY SCHOOL RELIGION.** (3) (Th 335).

336 **RENEWAL: ELEMENTARY SCHOOL RELIGION.** (3) (Th 336).

337 **RELIGIOUS EDUCATION SEMINAR.** (3) (Th 337).

338 **THEORIES OF RELIGIOUS EDUCATION.** (3) (Th 338).

339 **PARISH DIRECTORS OF RELIGIOUS EDUCATION.** (3) (Th 339).

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

341 **COMMUNICATION: SMALL GROUP DYNAMICS.** (3) (CA 360).

345 **CURRENT DIALOGUE—ISSUES AND SPEAKERS.** (3) (CA 365).

370 **COACHING: WRESTLING.** (2) Elective open to upper division students only.

371 **COACHING: TUMBLING AND GYMNASICS.** (2) Open to upper division students only.

372 **COACHING: FOOTBALL.** (2)

373 **COACHING: BASKETBALL.** (2)

374 **COACHING: BASEBALL.** (2)

375 **COACHING: TRACK AND FIELD.** (2)

376 **THEORY OF OFFICIATING.** (2) Elective open to upper division students only.

377 **ADMINISTRATION OF PHYSICAL EDUCATION.** (3) Principles, organization, and administration of physical education program. The intramural athletic program. FOR UNDERGRADUATE CREDIT ONLY.

378 **ADMINISTRATION OF HEALTH EDUCATION.** (3) Methods and materials. Organizational techniques and the administration of the school health program. FOR UNDERGRADUATE CREDIT ONLY.


382 **ELEMENTARY SCHOOL HEALTH AND HYGIENE.** (2)

385 **PHYSICAL EDUCATION IN THE ELEMENTARY SCHOOL.** (2)

386 **KINESIOLOGY.** (2) Prerequisites: Bl 106-107, 108-109.

387 **FIRST AID AND SAFETY.** (2) The American Red Cross Standard and the Advanced First Aid course. The prevention and treatment of athletic injuries.

388 **PERSONAL AND COMMUNITY HEALTH.** (2) Personal and community health for use in teaching that subject.

389 **ADAPTIVE PHYSICAL EDUCATION.** (3) Methods, materials, and programs for the organization and administration of physical education for atypical individuals in schools and the community. (Formerly Ed 594).

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

391 **WORKSHOP: MULTI-SENSORY PERCEPTION.** (2) Materials fee $5.00.

392 **PERCEPTUAL MOTOR PROBLEMS IN EDUCATION.** (2)

431 **PASTORAL COUNSELING.** (2)

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

497 **SPECIAL STUDY.** (2-6)
498 TUTORIAL COURSE. Credit to be arranged. Special reading and directed study for advanced students.

Graduate Courses

The Department of Education of the Graduate School is organized to offer the in-service teacher or school administrator opportunities for advanced professional training through individual courses or through balanced programs leading to the Master of Education degree.

Ed 501, 503, 505, 507 are required of all Candidates for M.Ed. Degree

501 PHILOSOPHY OF EDUCATION. (3) The historical development of educational philosophy and theories. Evaluation of major current philosophies.

503 ADVANCED EDUCATIONAL PSYCHOLOGY. (3) Major aspects of child and adolescent growth and development. The learning process and factors influencing learning.

505 EDUCATIONAL ADMINISTRATION. (3) The relationships of the federal government, the state, and the local government to public and private education. Major administrative functions as operable in the elementary, middle, and secondary school.

507 EDUCATIONAL RESEARCH. (3) Methodology of educational research. Statistics in research. Locating educational research. Two credits. Research Project. One credit. A separate grade is given for each phase of the course.

510 STATISTICAL TECHNIQUES. (2-3) (Ps 210).

511 ADVANCED STATISTICS. (3) (Ps 511).

529 BEHAVIOR MODIFICATION. (3) (Ps 529).

530 LEARNING AND MOTIVATION. (2-3) (Ps 530).

531 COUNSELING MINORITIES. (2) Theory, techniques and research in counseling of minority groups, such as blacks, Southern Appalachian migrants, etc. in settings of the school and other agencies. (Ps 531).

532 EDUCATIONAL AND VOCATIONAL GUIDANCE. (2) The school's responsibility for moral, social, and vocational guidance. Essentials of an adequate guidance program. (Ps 532).

533 COUNSELING PRINCIPLES AND TECHNIQUES. (2) Theory of counseling. Case method. Relationships to testing and to other sources of data. Interviewing. Place and value of records. Clinical procedures. (Ps 533).

534 ELEMENTARY SCHOOL GUIDANCE. (2) Principles, philosophy, administration, and organization of guidance services in the elementary school setting. Role and function of the counselor.

535 OCCUPATIONAL INFORMATION. (2) (Ps 535).

536 GROUP GUIDANCE. (2) Laboratory course. Individual roles in the group. Interpersonal relations. For counseling, teaching, and persons involved in personnel work. (Ps 326).

539 GUIDANCE LABORATORY. (2) Study of individual pupils; collecting pertinent data, interviewing, recording, diagnosis, interagency collaboration. Practicum. Prerequisites: Ed 532, 533, 579. By reservation only.

540 ADMINISTRATION OF THE MIDDLE SCHOOL. (2)

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


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

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

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

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

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

550, MICRO-TEACHING I, II. (2,2)

551

560 ADMINISTRATION OF THE COMMUNITY SCHOOL. (2)

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

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


564 ADMINISTRATION OF STAFF PERSONNEL. (2) Prerequisites: Ed 505 and Ed 543 or equivalent.


566 SCHOOL FINANCE. (2)

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

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

580 PSYCHOPATHOLOGY. (2) (Ps 580).

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

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

591 LEADERSHIP IN OUTDOOR EDUCATION. (3) Consideration is given to settings for outdoor education, school camp functions, and administration. Emphasis on group and individual camping techniques.

592 ADMINISTRATION OF INTRAMURAL ATHLETICS. (3) Treatment of administrative problems, policies, and procedures involved in intramural athletics as applied to school systems.

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

596 ADMINISTRATION OF PHYSICAL FITNESS PROGRAMS. (3) Primary components. Organizing and administering a functional physical fitness program for sports and physical education. The individual.

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

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

601, INTRODUCTION TO COMPUTER ASSISTED INSTRUCTION. I, II. (2, 2)

607 EDUCATIONAL PROJECT MANAGEMENT. (2)

612 WORKSHOP: CLASSROOM USE OF EDUCATIONAL TELEVISION. (2)

615 WORKSHOP: GROUP AND INTERPERSONAL DYNAMICS. (2) Materials fee $8.00.

617 LABORATORY: INNER-CITY STUDENT BEHAVIORAL PROBLEMS. (2)

618 GROUP TESTING I: THEORY AND PRACTICE. (2)

MONTESSORI METHODS AND MATERIALS: ABSTRACT LEVEL. (3) Concrete to abstract learning in natural sciences, social studies, arithmetic, language arts, music, dramatic activities, art. Observation and evaluation.

CURRICULUM DESIGN AND TEACHING STRATEGIES: PRIMARY GRADES. (3) Description same as Ed 660 with emphasis on the primary grades.

MONTESSORI INTERNSHIP I, II. (3,3) Two semesters.

CURRICULUM DESIGN AND TEACHING STRATEGIES. (3) Instructional systems' concepts. Curriculum design and teaching strategies in elementary and secondary schools. Plans to individualize instruction with team teaching, independent study, small and large groups. Preparation of multi-media materials. Plans for evaluating results. A student may register for this course more than once for a total of six hours. Course may be offered as Workshop in summer session for six hours credit. Fee $12.00.

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


EDUCATIONAL MEDIA PRACTICUM. (3-6) By arrangement. Field experience working in a media center under supervision for one or two semesters at the level of certification desired.

SCHOOL SOCIAL WORK PRACTICUM. (2-4)

SCHOOL SOCIAL WORK INTERNSHIP. (3-6)


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

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


††These courses require time arrangements for materials familiarization at other than scheduled class meetings.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

ENGLISH (En)

Staff: FR. SAVAGE, chairman; MR. WESSLING, associate chair­man; FR. CONNOLLY, DR. DOERING, MR. FELDHAUS,** DR. FONTANA, MR. GLENN, FR. TRAUB, DR. WENTERS­DORF, DR. WILLER**

Assisted by: DR. BEIGEL, MR. CAHILL, MR. KORAL, MR. MILLER, MR. McWHORTER, DR. MURRAY, MR. NEFF, DR. RETTIG, DR. RINSKY, DR. SCHWEIKERT

**On leave.

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

Lower Division Courses

101 ENGLISH COMPOSITION. (3)

*113 RHETORIC AND LITERATURE I. (3) Instruction and practice in effective writing. Selected readings in British non-fictional prose. Required of English majors.

*114 RHETORIC AND LITERATURE II. (3) Complements En 113. (See course description En 113.) Required of English majors.

*121 STUDIES IN POETRY. (3)
*122 STUDIES IN DRAMA. (3)
*123 STUDIES IN PROSE AND CULTURE. (3) Cultural and stylistic study of selected English and American non-fictional prose texts.
*124 STUDIES IN FICTION. (3)
*125 STUDIES IN SATIRE. (3)
*128 STUDIES IN AFRO-AMERICAN LITERATURE. (3) Not open to students who have taken or expect to take En 388 or En 389.
*129 STUDIES IN THE BLACK EXPERIENCE. (3) Not open to students who have taken or expect to take En 388 or En 389.
*131 SURVEY OF BRITISH POETRY. (3) Required of English majors.
*132 SURVEY OF BRITISH DRAMA. (3) Required of English majors.
*135 STUDIES IN SHAKESPEARE. (3)
*147 STUDIES IN WORLD LITERATURE. (3)
*148 WORLD LITERATURE TO 1650. (3)
*149 WORLD LITERATURE SINCE 1650. (3)

Upper Division Courses

200 ADVANCED COMPOSITION FOR TEACHERS. (3) Instruction and practice in invention, organization, and style in the modes of writing appropriate to teachers of junior and senior high school English. For students preparing to teach English in the secondary school. (ED 200).

201 TEACHING ENGLISH: COMPOSITION. (3) Techniques and methods in teaching composition. Open only to graduate assistants.

202 TEACHING ENGLISH: LITERATURE. (3) Techniques and methods in teaching the short story and the novel. Open only to graduate assistants.

203 HISTORY OF THE ENGLISH LANGUAGE. (3) Origins and development of the English language from c. 450 to the present. Etymology and vocabulary, syntax and grammar, semantics, and phonology.

204 INTRODUCTION TO LINGUISTICS. (3) Contemporary linguistic theory concerning the nature and history of language including graphics, phonetics, phonology, morphology and syntax. (Fr, Gr, Sp 206).

207 ADVANCED WRITING. (3)

209 CREATIVE WRITING. (3)

210 CONTEMPORARY PROSE COMPOSITION. (3)

226 CHILDREN'S LITERATURE. (3) (Ed 226).

241 GREEK LITERATURE IN TRANSLATION. (3) (Cl 241).

244 LATIN LITERATURE IN TRANSLATION. (3) (Cl 244).

248 CLASSICAL MYTHOLOGY. (3) (Gk, Lt 248).

250 WORLD DRAMA. (3)

251 WORLD FICTION. (3)

260 AESTHETICS AND LITERARY CRITICISM. (3) Philosophical basis of aesthetics; elements of taste; critical standards. (Pl 328).

261 HISTORY OF LITERARY CRITICISM. (3) Major critics from Aristotle to T. S. Eliot.

268 LITERATURE AND THE HUMAN PERSON. (3)

269 MAN AND MYTH IN WORLD LITERATURE. (3)

270 THEOLOGICAL THEMES IN CONTEMPORARY LITERATURE. (3) The religious significance of themes found in contemporary poetry, fiction, and drama. (Th 280).

271 BELIEF AND NON-BELIEF IN MODERN LITERATURE. (3) (Th 281).

272 THEOLOGICAL THEMES IN AMERICAN LITERATURE. (3) Historical analysis of major theological patterns in American literature from Puritan theocracy to present. (Th 282).

273 MAN, GOD AND LITERATURE. (3) (Th 283).

274 LITERATURE AND HUMANISM. (3) (Th 284).

275 THE SCAPEGOAT: RITUAL AND LITERATURE. (3) (Th 286).

277 LOVE IN THE WESTERN WORLD. (3) The forms of love in scripture and in the great works of secular literature from Plato through the medieval revolution of courtly love to modern times. (Th 287).

278 SEVENTEENTH CENTURY ANGLICAN LITERATURE. (3) A select number of continental religious and mystical works and their relationships to the ideas and structure of Seventeenth-Century English prose and poetry.

279 THE HUMAN PREDICAMENT IN MODERN LITERATURE. (3) The problem of human freedom and evil. The question of man's basic innocence or sinfulness. Various forms of secular salvation. (Th 289).

280 THE HERO IN LITERATURE. (3)

281 IMAGES OF MAN IN WORLD LITERATURE. (3) The changing image of man in major works of world literature from ancient to modern times.

282 JESUS IN MODERN FICTION. (3) Modern fiction as it illuminates and is illuminated by a study of the Jesus of the gospel and of contemporary Christology. (Th 293).

283 MAJOR BRITISH AUTHORS: CHAUCER-JOHNSON. (3) Not applicable toward a Master of Arts in English.

284 MAJOR BRITISH AUTHORS: WORDSWORTH-ELIOT. (3)

285 OLD ENGLISH LITERATURE. (3) Old English literature exclusive of Beowulf; read in the original.

287 BEOWULF. (3) Prerequisite: En 306.

288 MEDIEVAL ENGLISH LITERATURE. (3) Nonlinguistic survey exclusive of Chaucer.
### Graduate Courses

303 HISTORY OF THE ENGLISH LANGUAGE. (3) Directed research in linguistic problems arising from a study of the etymology, syntax, grammar, semantics, and phonology of the English language as it developed from c. 450 to the present day.

308 MEDIEVAL LITERATURE. (3) Special emphasis on the Pearl poet, Langland, and the mystical writers.

310 CHAUCER: THE CANTERBURY TALES. (3)

311 CHAUCER. (3) Troilus and Criseyde and the Minor Poems.

315 ENGLISH RENAISSANCE. (3) Tudor prose and poetry with emphasis on the prose of politics and religion, and on the poetry of Sidney and Spenser.

325 SHAKESPEARE. (3) Representative plays of Shakespeare.

326 SHAKESPEARE: HISTORIES AND COMEDIES. (3)

327 SHAKESPEARE: TRAGEDIES AND TRAGICOMEDIES. (3)

330 SEVENTEENTH CENTURY LITERATURE. (3) Milton not included.

335 MILTON. (3)

340 NEO-CLASSICAL LITERATURE. (3) Poetry and prose of the period from Dryden to the forerunners of Romanticism.

343 HESSE IN TRANSLATION. (3) (Gr 343).

344 THE ENGLISH NOVEL TO HARDY. (3)

345 KAFKA IN TRANSLATION. (3) (Gr 345).

346 FAUST IN LEGEND AND LITERATURE (IN TRANSLATION). (3) (Gr 346).

347 MAN IN MODERN LITERATURE IN TRANSLATION. (3) (Gr 347).

350 ROMANTIC LITERATURE. (3) English romantic poetry and selected non-fiction prose from 1780-1830.

360 VICTORIAN POETRY. (3) Study of selected works of Victorian poets from 1830 to 1910.

361 VICTORIAN NON-FICTIONAL PROSE. (3) Non-fictional prose of the Victorian period according to the important issues of that historical era.

362 VICTORIAN LITERATURE TO 1860. (3) Poetry, non-fictional prose, and the novel.

363 VICTORIAN LITERATURE SINCE 1860. (3) Poetry, non-fictional prose, and the novel.

370 MODERN BRITISH LITERATURE. (3) Twentieth Century British poetry, novel, and drama.

371 TWENTIETH CENTURY BRITISH POETRY. (3)

372 MODERN DRAMA. (3) Drama from Ibsen to Arthur Miller.

373 CONTEMPORARY DRAMA SINCE 1950. (3)

374 MODERN BRITISH NOVEL. (3) Conrad to the present.

375 THE SHORT STORY. (3)

380 SURVEY OF AMERICAN LITERATURE TO 1865. (3)

381 SURVEY OF AMERICAN LITERATURE SINCE 1865. (3)

384 THE AMERICAN NOVEL TO 1920. (3)

385 THE AMERICAN NOVEL SINCE 1920. (3)

386 THE AMERICAN NOVEL SINCE 1980. (3)

387 MODERN AMERICAN POETRY. (3)

388 AFRO-AMERICAN LITERATURE: POETRY, DRAMA, AND THE ESSAY. (3) Not open to students who have completed En 128.

389 AFRO-AMERICAN LITERATURE: FICTION AND AUTOBIOGRAPHY. (3) Not open to students who have completed En 129.

391 MODERN AMERICAN LITERATURE. (3)

399 SPECIAL STUDY. Credit by arrangement. Directed study.

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### Undergraduate Courses

303 HISTORY OF THE ENGLISH LANGUAGE. (3) Directed research in linguistic problems arising from a study of the etymology, syntax, grammar, semantics, and phonology of the English language as it developed from c. 450 to the present day.

308 MEDIEVAL LITERATURE. (3) Special emphasis on the Pearl poet, Langland, and the mystical writers.

310 CHAUCER'S MAJOR WORKS. (3)

315 STUDIES IN THE RENAISSANCE. (3)

325 ENGLISH DRAMA TO 1642. (3) Shakespeare excluded.

330 STUDIES IN SEVENTEENTH CENTURY LITERATURE. (3)

333 ENGLISH COMEDY TO SHERIDAN. (3)

335 ENGLISH DRAMA TO 1642. (3) Shakespeare excluded.

338 MODERN BRITISH LITERATURE. (3) Twentieth Century British poetry, novel, and drama.

339 MODERN DRAMA. (3) Drama from Ibsen to Arthur Miller.

342 CONTEMPORARY DRAMA SINCE 1950. (3)

343 MODERN BRITISH NOVEL. (3) Conrad to the present.

344 THE SHORT STORY. (3)

345 SURVEY OF AMERICAN LITERATURE TO 1865. (3)

346 SURVEY OF AMERICAN LITERATURE SINCE 1865. (3)

347 THE AMERICAN NOVEL TO 1920. (3)

348 THE AMERICAN NOVEL SINCE 1920. (3)

349 THE AMERICAN NOVEL SINCE 1980. (3)

350 MODERN AMERICAN POETRY. (3)

351 AFRO-AMERICAN LITERATURE: POETRY, DRAMA, AND THE ESSAY. (3) Not open to students who have completed En 128.

352 AFRO-AMERICAN LITERATURE: FICTION AND AUTOBIOGRAPHY. (3) Not open to students who have completed En 129.

353 MODERN AMERICAN LITERATURE. (3)

354 SPECIAL STUDY. Credit by arrangement. Directed study.
English

575 MODERN BRITISH SHORT FICTION. (3)
576 DOCUMENTARY AS LITERATURE. (3)
582 STUDIES IN MODERN AMERICAN DRAMA. (3)
608 SEMINAR IN MEDIEVAL LITERATURE. (3)
610 SEMINAR IN CHAUCER. (3)
612 SEMINAR IN MEDIEVAL AND RENAISSANCE MAN. (3)
615 SEMINAR IN RENAISSANCE AUTHORS. (3)
626 SEMINAR IN SHAKESPEARE: HISTORIES AND COMEDIES. (3)
       Prerequisite: En 326 or its equivalent.
627 SEMINAR IN SHAKESPEARE: TRAGEDIES AND TRAGI-COMEDIES. (3)
       Prerequisite: En 327 or its equivalent.
630 SEMINAR IN SEVENTEENTH CENTURY AUTHORS. (3)
631 SEMINAR IN METAPHYSICAL POETRY. (3)
633 SEMINAR IN MILTON. (3)
640 SEMINAR IN RESTORATION AND EIGHTEENTH CENTURY AUTHORS. (3)
642 SEMINAR IN CLASSICAL DRAMA. (3)
650 SEMINAR IN ROMANTICISM. (3)
660 SEMINAR IN VICTORIAN AUTHORS. (3)
670 SEMINAR IN THE TWENTIETH CENTURY AUTHORS. (3)
680 SEMINAR IN AMERICAN ROMANTICISM. (3)
681 SEMINAR IN HAWTHORNE AND MELVILLE. (3)
682 SEMINAR IN AMERICAN REALISM. (3)
683 SEMINAR IN EMERSON AND POE. (3)
685 SEMINAR IN FAULKNER AND HEMINGWAY. (3)
699 MASTER'S THESIS. (6)

Fine Arts (FA)

Staff: MR. McNESKY, MR. SORIANO, MRS. VASSAR
The Department of Fine Arts is administered by the Dean of the College of Arts and Sciences.

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

*201 HISTORY OF ART I. (3)
*202 HISTORY OF ART II. (3)
*251 HISTORY AND LITERATURE OF MUSIC I. (3)
*252 HISTORY AND LITERATURE OF MUSIC II. (3)
395 DIRECTED STUDY. Credit to be arranged.

History (Hs)

Staff: DR. SIMON, chairman; FR. BENNISH, DR. FORTIN, DR. GOODMAN, DR. GRUBER, DR. HEIGHBERGER, FR. JOHN-SON, FR. LINK, MR. McVAY, DR. MOULTON, MR. SEHER, FR. WITEK
Assisted by: MRS. BURKE, MISS SMITH

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

Lower Division Courses

*123 WESTERN CIVILIZATION TO 1648. (3)
*124 WESTERN CIVILIZATION SINCE 1648. (3)
*185 REVOLTS AND COUNTER-REVOLTS. (3) Must be taken concurrently with Bl 185 and PI 385.

Upper Division Courses

*202 HISTORY OF ANCIENT GREECE. (3) The politics and society of old Greece. (Gk 202, Cl 202).

Geography (Gg)

Staff: DR. LINK, MR. WILLIAMS
The Department of Geography is administered by the Dean of the College of Continuing Education. Courses augment the student's background in economics, science, and education.

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

Upper Division Courses

*207 WORLD GEOGRAPHY. (3) Physical and cultural regions of the world. Man-environmental relationships.
220 GEOGRAPHY OF EUROPE. (3)
260 GEOGRAPHY OF LATIN AMERICA. (2-3) Topical and regional locational patterns and regional development.
*261 GEOGRAPHY OF SOUTHEAST ASIA. (3) Political, economic and social. The People: ethnic background, human activity, population number and distribution.
375 POLITICAL GEOGRAPHY. (3) (Po 375).
395 DIRECTED STUDY. Credit to be arranged.

History and Political Science

Staff: DR. SIMON, chairman; FR. BENNISH, DR. FORTIN, DR. GOODMAN, DR. GRUBER, DR. HEIGHBERGER, FR. JOHN-SON, FR. LINK, MR. McVAY, DR. MOULTON, MR. SEHER, FR. WITEK
Assisted by: MRS. BURKE, MISS SMITH

(*) Courses so designated are approved as electives for curricular requirements in social science, subject to limitations as indicated.
THE ATLANTIC COMMUNITY: THE INTERACTION OF EUROPE AND NORTH AMERICA. (3) Non-diplomatic relationships (political, economic, intellectual, and social) among the communities of the North Atlantic. (Po 245).

THE UNITED NATIONS. (3) (Po 249).


ARGENTINA, BRAZIL AND CHILE. (3)

WORLD CIVILIZATIONS I: THE EARLY PERIOD. (3)

WORLD CIVILIZATIONS II: THE MODERN PERIOD. (3) A continuation of Hs 260.

NATIONALISM AND COMMUNISM IN ASIA. (3)

HISTORY OF KOREA. (3)

SOUTHEAST ASIA TO WORLD WAR II. (3) (Po 274).

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

INDIA TO 1857. (3) (Po 278).

INDIA SINCE 1857 AND PAKISTAN. (3) (Po 279).

JAPAN TO 1868. (3) (Po 283).

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

CHINA TO 1644. (3) (Po 285).

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


CHINA: MAO’S FOREIGN POLICY. (3)

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


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

295 SENIOR SEMINAR: EUROPE. (3)

296 SENIOR SEMINAR: ASIA. (3)

297 SENIOR SEMINAR: LATIN AMERICA. (3)

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

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


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

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


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

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

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


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


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

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

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


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

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

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

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

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

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

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

369 WOMEN IN AMERICAN HISTORY. (3)

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

373 UNITED STATES FOREIGN RELATIONS TO 1900. (3) The emergence of basic goals in American foreign policy. Events formative of the country's relations to the world community. (Po 373).
HISTORY

374 UNITED STATES FOREIGN POLICY SINCE 1900. (3) A world power in search of peace and neutrality. Entanglement in the ideological conflict of the post-World War II era. (Po 374).

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

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

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

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

395 SENIOR SEMINAR: UNITED STATES. (3)

398 ADVANCED READING AND RESEARCH. (3)

Graduate Courses

501 HISTORICAL METHOD. (3) Ordinarily prerequisite to and required in all cases for graduate students in history. Approach to research adapted to the Master of Arts in history and to seminar work for that degree.

525 SEMINAR: EUROPE I. (3) Research in the history of Western Europe or of Great Britain.

526 SEMINAR: EUROPE II. (3)

527 SEMINAR: THE EXPANSION OF EUROPE. (3)

528 SEMINAR: TWENTIETH CENTURY EASTERN EUROPE. (3)

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

551 SEMINAR: COLONIAL LATIN AMERICA. (3) (Po 551).

552 SEMINAR: CONTEMPORARY LATIN AMERICA. (3) (Po 552).

572 SEMINAR: SOUTHEAST ASIA TO WORLD WAR II. (3) (Po 572).

573 SEMINAR: SOUTHEAST ASIA SINCE WORLD WAR II. (3) (Po 573).

576 SEMINAR: INDIA TO 1857. (3) (Po 576).

577 SEMINAR: INDIA SINCE 1857 AND PAKISTAN. (3) (Po 577).

583 SEMINAR: JAPAN TO 1868. (3) (Po 583).

584 SEMINAR: JAPAN SINCE 1868. (3) (Po 584).

585 SEMINAR: CHINA TO 1644. (3) (Po 585).

586 SEMINAR: CHINA SINCE 1644. (3) (Po 586).

602 SEMINAR: COLONIAL UNITED STATES. (3)

603 SEMINAR: EARLY NATIONAL PERIOD. (3)

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

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

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

630 SEMINAR: THE WEST TO 1783. (3)

631 SEMINAR: THE WEST SINCE 1783. (3)

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

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

658 SEMINAR: URBAN AMERICA. (3)

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

695 SPECIAL STUDIES. (3)

699 MASTER'S THESIS. (6)

Political Science (Po)

Lower Division Courses

*101 GOVERNMENT IN SOCIETY. (3) Basic principles of political parties, national government, and international relations in the light of contemporary problems.

*102 AMERICAN GOVERNMENT. (3)

*133 POLITICAL THEORY. (3) The masters of political thought. Their effect on events.

Upper Division Courses

200 INTRODUCTION TO POLITICAL INQUIRY. (3) Public opinion polls. Evaluation of polls. Types of research.

207 CONSTITUTIONAL HISTORY OF ROME. (3) (Hs 207, Lt 207).

221 COMPARATIVE GOVERNMENT—EUROPE. (3) The political development of great Britain, France and the Soviet Union. Political parties, electoral systems, pressure groups, and the structure of society.


230 MODERN GERMANY. (3) German politics from Bismarck to the present. The Weimar Republic. The Nazi period. The contemporary division of Germany. (Hs 230).

235 SOVIET RUSSIA AND EASTERN EUROPE—TO THE PRESENT. (3) (Hs 235).

236 COMMUNISM. (3) The development of contemporary strategy and tactics in Communist foreign policy from the ideology of Marx, Engels, and Lenin.
Political Science

238 TWENTIETH CENTURY EASTERN EUROPE. (3) (Hs 238).
242 ENGLAND SINCE 1815. (3) (Hs 242).
245 THE ATLANTIC COMMUNITY. (3) (Hs 245, Ec 245).
272 NATIONALISM AND COMMUNISM IN ASIA. (3)
273 HISTORY OF KOREA. (3)
275 SOUTHEAST ASIA SINCE WORLD WAR II. (3) (Hs 275).
279 INDIA SINCE 1857 AND PAKISTAN. (3) (Hs 279).
284 JAPAN SINCE 1868. (3) (Hs 284).
286 CHINA SINCE 1644. (3) (Hs 286).
287 CHINA: INTELLECTUAL HISTORY. (3) (Hs 287, Pl 287).
288 JAPAN: INTELLECTUAL HISTORY. (3) (Hs 288, Pl 288).
289 CHINA: MAO'S FOREIGN POLICY. (3)
292 NATIONALISM IN MODERN TIMES. (3)
298 ADVANCED READING AND RESEARCH. Credit arranged.
300 GOVERNMENT AND BUSINESS I. (3) (Ec 330).
305 PUBLIC FINANCE AND TAXATION. (3) (Fi 335, Ec 335).
340 THE PRESIDENCY. (3) Federal-State relationships. The constitutional concept of the office. The President as administrator, as commander-in-chief in wartime, as organ of foreign relations, and as political leader.
346 THE CONGRESS. (3) The American legislative process. The structure and functions of the United States Congress. U.S. State legislatures and foreign legislative systems.
*348 CONSTITUTIONAL HISTORY OF U.S. TO 1865. (3) (Hs 348).
*349 CONSTITUTIONAL HISTORY OF U.S. SINCE 1865. (3) (Hs 349).
351 AMERICAN REVOLUTION: CONFLICT & CONSENSUS. (3) (Hs 351).

*358 URBAN AMERICA. (3) (Hs 358).
359 STATE AND LOCAL GOVERNMENT. (3)
360 AMERICAN POLITICAL PARTIES. (3) (Hs 360).
*361 HISTORY OF AMERICAN POLITICAL INSTITUTIONS. (3) (Hs 361).
362 PUBLIC OPINION AND VOTING BEHAVIOR. (3) How and why Americans formulate and express their political attitudes. Voting behavior. The measurement of public opinion.
365 THE NEGRO IN AMERICA. (3) (Hs 365).
370 FOREIGN AFFAIRS IN THE UNITED STATES. (3) Organization and operation of the State Department. The Foreign Service. Congress and other agencies. Current policies and operations.
371 INTER-AMERICAN RELATIONS. (3) (Hs 371).
373 UNITED STATES FOREIGN RELATIONS TO 1900. (3) (Hs 373).
374 UNITED STATES FOREIGN POLICY SINCE 1900. (3) (Hs 374).
390 SEMINAR IN INTERNATIONAL RELATIONS. (3) Senior comprehensive paper. Research methods.
391 PROBLEMS IN AMERICAN GOVERNMENT. (3) Selected problems. The processes of American government in dealing with problems. Taken in senior year.
395 DIRECTED STUDY. Credit to be arranged.

Graduate Courses

546 SEMINAR: AMERICAN GOVERNMENT. (3) The national political system. Designed to meet the needs of teachers in service as well as students doing advanced work in History and Political Science. (Hs 546).
572 SEMINAR: SOUTHEAST ASIA TO WORLD WAR II. (3) (Hs 572).
573 SEMINAR: SOUTHEAST ASIA SINCE WORLD WAR II. (3) (Hs 573).
576 SEMINAR: INDIA TO 1857. (3) (Hs 576).
577 SEMINAR: INDIA SINCE 1857 AND PAKISTAN. (3) (Hs 577).
583 SEMINAR: JAPAN TO 1868. (3) (Hs 583).
Mathematics

584 SEMINAR: JAPAN SINCE 1868. (3) (Hs. 584).
585 SEMINAR: CHINA TO 1644. (3) (Hs. 585).
586 SEMINAR: CHINA SINCE 1644. (3) (Hs. 586).
674 SEMINAR: UNITED STATES FOREIGN RELATIONS. (3) (Hs. 674).
699 MASTER'S THESIS. (6)

Mathematics (Mt)

Staff: DR. LARKIN, chairman; MR. BRUGGEMAN, DR. COLLINS, DR. DELANEY, DR. FLASPOHLER, FR. ISENECKER, MS. RUWE, MR. TRUNNELL

Assisted by: MR. CHARRIER, MR. COLLINS, MR. CUMMINGS, MR. DEVANNEY, DR. HERBOLD, DR. KLEE, MR. KLOECKER

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

Lower Division Courses

The Xavier University admission requirement of two units of high school mathematics is assumed for all mathematics courses. Students deficient in arithmetic and basic algebra may require remedial work before taking any college mathematics courses.

000 REFRESHER MATHEMATICS. No credit.

100 MATHEMATICS FOR RADIOLoGY. (3) Topics in mathematics useful to students studying to become X-ray technologists.

*101 ELEMENTS OF STATISTICAL INFERENCE. (3) Description of sample data, simple probability, theoretical distributions, normal and binomial, estimation, tests of hypotheses, correlation, and regression.

*102 MATHEMATICS OF FINANCE. (3) Selecting the optimum investment plan from competing alternatives. Personal and business decision-making. Time value analysis applied to stocks, bonds, insurance.

*103 STATISTICS FOR THE BIOLOGICAL SCIENCES. (3) Descriptive statistics, probability, point estimation and hypothesis testing, regression and correlation. For students in biological and health sciences.


110 VECTORS AND GEOMETRY. (3) Lines and planes, conics, quadrics, Cartesian, polar, cylindrical and spherical coordinates, systems of linear equations, determinants, matrices, matrix algebra, characteristic values and vectors.

*112 COLLEGE MATHEMATICS WITH BUSINESS APPLICATIONS. (3) Graphical analysis, functions systems of equations and matrices, inequalities, maxima and minima, linear programming, series, difference equations.

Upper Division Courses


*120 CALCULUS I. (3) Rate of change of a function, derivatives of algebraic functions, curve plotting, max-min problems, integration.

*121 CALCULUS OF ONE VARIABLE (Scientific Applications). (3) Derivatives and integrals of algebraic and other functions, parametric equations, change of coordinates and series. Applications of the calculus in science.

*122 CALCULUS OF ONE VARIABLE (Business Applications). (3) Derivatives and integrals of algebraic and other functions used in economics. Marginal and optimality analysis and determination of elasticities.

125 COMPUTATIONS I. (1) Computer and programming language. Computational techniques in elementary calculus. Corequisites: Mt 120 or 121 or 122.

130 CALCULUS II. (3) Applications of integration, transcendental functions, methods of integration, elementary mechanics of series introduction to differential equations. Prerequisite: Mt 120.


135 COMPUTATIONS II. (1) Applications of computers in calculus, differential equations, analytic geometry and linear algebra. Prerequisite: Mt 125, Corequisites: Mt 110, Mt 130.

197 TUTORIAL STUDY. Credit by arrangement.


Graduate Courses

Advanced Calculus is assumed as prerequisite for all graduate courses.

Mt 500, 501, 502, 503, 504 are offered only in the summer.

500 TOPOMETRY. (3)
501 REAL ANALYSIS. (3)
502 THEORY OF INTEGRATION. (3)
503 COMPLEX ANALYSIS. (3)
504 MODERN ALGEBRA. (3)
510 GENERAL TOPOLOGY I. (3) Ordinals and Cardinals, topological spaces, connectedness, separation axioms, and covering axioms.
530 GENERAL TOPOLOGY II. (3) Metric spaces, convergence, compactness, function spaces, complete spaces, homotopy. Prerequisite: Mt 510.
530 MEASURE THEORY AND INTEGRATION. (3) Linear spaces, additive classes and Borel sets, outer measures. Lebesgue-Stieltjes Measure, measurable functions, integration, convergence theorems, differentiation.
540 ABSTRACT ALGEBRA I. (3) Groupoids, semigroups and groups, ring and fields, subgroups and subrings, isomorphism and embedding, normal subgroups and ideals. Prerequisite: Mt 240.
550 ABSTRACT ALGEBRA II. (3) Universal Algebras, homomorphism, groups with multioperators, automorphisms and endomorphisms, normal and composition series, abelian, nilpotent and solvable groups. Prerequisite: Mt 540.
560 REAL ANALYSIS I. (3) Functions spaces, category, compactness and continuity. Hahn-Banach Theorem, dual space, Lebesgue measure. Prerequisites: Mt 240, 260, 270.
570 REAL ANALYSIS II. (3) Hilbert space, orthonormal sets, Mean Ergodic Theorem, Banach Algebra, Hardy measure. Prerequisite: Mt 560.
580 COMPLEX VARIABLES II. (3) Number systems, complex plane, Mobius transformations, powers and roots, holomorphic functions, and infinite series. Prerequisites: Mt 260, 270.
600 SEMINAR IN ALGEBRA. (3)
Military Science (MS)
The Reserve Officers’ Training Corps

Staff: COL. WHISTLER, Chairman; MAJ. YERSKY, CPT. BENNETT, CPT. WELLS, CPT. ARVIN

Assisted by: SGM WATERS

A senior unit of the Reserve Officers’ Training Corps is maintained at the University by the Department of the Army. The course of instruction is open to enrollment for both male and female students.

The Department of Military Science provides an opportunity for study of subjects of recognized military and educational value to the student in gaining the foundations of intelligent citizenship. The primary purpose of this four year program is to produce junior leaders who have the qualities and attributes essential to service as commissioned officers in the United States Army Reserve and for those highly qualified and motivated individuals an opportunity for a career of service as officers in the Regular Army.

The complete program of instruction comprises four semesters of lower division (basic) courses and four semesters of upper division (advanced) courses (excluding MS 290).

Female students will not be obliged to participate in instruction directly related to combat field training (e.g., marching with weapons) nor activities beyond their normal physical capacities. They will not be commissioned into a combat arm.

All advanced course students attend a required six weeks summer training camp (normally between the junior and senior year). Travel expenses to and from the camp are reimbursed by the Army. Students will be paid for the encampment at one-half the rate of pay of a Second Lieutenant.

All cadets in the advanced course receive a $100 per month subsistence allowance during the school year, not to exceed 20 months for the two years.

Non-ROTC scholarship students, upon graduation and commissioning, will be obliged to satisfy a service agreement which may be: (1) Two years active duty service followed by four years in the reserves; or (2) Three to six months active duty for training and complete eight years in the reserve program.

The Army annually provides scholarships to selected students. These scholarships provide payment of tuition, fees, book costs, laboratory expenses, and $100 subsistence allowance per month for the school year not to exceed ten months each year. Cadets enrolled in the ROTC program are the only students eligible to compete for the 3-, 2-, and 1-year Army ROTC Scholarships. High School seniors compete for the Four-year Army ROTC Scholarship. Individuals who win scholarships must enlist in the Enlisted Reserve and sign a formal contract agreeing to accept a Regular Army commission if offered, to serve on active duty for four years, and to complete two years thereafter in the reserves.

During their senior year students who successfully pass the medical examination and aptitude requirements may be eligible to participate in the ROTC flight instruction program.

The advanced courses (less MS 290) qualify students for commissions in the United States Army. Admission to MS 290 will be approved by the Chairman of the
Military Department and will depend upon fulfillment of the following conditions:

1. Voluntary application on the part of the student.

2. Completion of MS 101, 102, 103, and 104. Advanced placement for these basic courses will be determined by the Chairman of the Military Science Department. Placement will be considered for such courses completed in ROTC at other institutions, Junior ROTC, and prior service for veterans. Students may satisfy requirements for the basic course by completing the ROTC Basic Camp (six weeks).

3. Demonstrations of exceptional qualities of leadership and scholarship.

4. Successful passing of a prescribed medical examination.

5. Attainment of a prescribed minimum score on the ACT or SAT (or in the absence of such scores, meeting prescribed minimum standards on a special aptitude test).

6. Signing the ROTC Advanced Course contract and enlistment in the United States Army Enlisted Reserve.

Credit for ROTC will be given on the same basis as for other courses offered in the University. The six credit hours for the Basic Course are in excess of the 120 hours required for graduation. The ten credit hours for the Advanced Course may be used to satisfy non-specified electives.

Leadership Development Laboratory is a required portion of the curriculum but does not receive academic credit.

**Lower Division Courses**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
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</thead>
<tbody>
<tr>
<td>102</td>
<td>FIRST YEAR BASIC COURSE. (1) The organization of the U.S. Army, the U.S. Defense establishment, and their role in national security. Continuation of Leadership Development Laboratory.</td>
</tr>
<tr>
<td>103</td>
<td>SECOND YEAR BASIC COURSE. (2) Topographic map reading and use with field trips. Field Artillery missions. Organization, capabilities, communications and Leadership Development Laboratory.</td>
</tr>
<tr>
<td>104</td>
<td>SECOND YEAR BASIC COURSE. (2) American Military History; pre-Revolutionary War period to the present. The analysis of applied leadership principles by national leaders. Leadership Development Laboratory.</td>
</tr>
</tbody>
</table>

**Upper Division Courses**

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<thead>
<tr>
<th>Course</th>
<th>Title</th>
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<tbody>
<tr>
<td>201</td>
<td>FIRST YEAR ADVANCED COURSE. (2) The theory and practice of leadership and management. Principles and techniques of teaching. Student presentations. Leadership Development Laboratory.</td>
</tr>
<tr>
<td>202</td>
<td>FIRST YEAR ADVANCED COURSE. (3) The control of small groups in combat situations and military communications requirements. Leadership Development Laboratory. A mandatory 6-week summer camp follows.</td>
</tr>
<tr>
<td>203</td>
<td>SECOND YEAR ADVANCED COURSE. (3) Field Artillery tactics and techniques. Participation as the leader/manager in Leadership Development Laboratory. Pilot training is available to qualified students.</td>
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</tbody>
</table>

**French (Fr)**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
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</thead>
<tbody>
<tr>
<td>111</td>
<td>ELEMENTARY FRENCH I. (3) The mechanics of speaking, reading and writing basic French.</td>
</tr>
<tr>
<td>112</td>
<td>ELEMENTARY FRENCH II. (3) A continuation of Fr 111. Prerequisite: Fr 111.</td>
</tr>
<tr>
<td>121</td>
<td>INTERMEDIATE FRENCH I. (3) Advanced facility in reading and conversation. Prerequisite: Fr 112.</td>
</tr>
<tr>
<td>122</td>
<td>INTERMEDIATE FRENCH II. (3) A continuation of Fr 121. Prerequisite: Fr 121.</td>
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</tbody>
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<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
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</thead>
<tbody>
<tr>
<td>200</td>
<td>ORAL AND WRITTEN COMMUNICATION IN FRENCH. (3) Required of French majors.</td>
</tr>
<tr>
<td>205</td>
<td>INTRODUCTION TO LINGUISTICS. (3) Not applicable for French majors. (En 206).</td>
</tr>
<tr>
<td>207</td>
<td>STYLE IN LITERATURE AND LANGUAGE. (3)</td>
</tr>
<tr>
<td>209</td>
<td>FRENCH PRONUNCIATION. (3)</td>
</tr>
<tr>
<td>220</td>
<td>CONTEMPORARY FRANCE. (3)</td>
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<tr>
<td>235</td>
<td>FRENCH CULTURE. (3)</td>
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<tr>
<td>Course Code</td>
<td>Course Title</td>
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<tr>
<td>*215</td>
<td>GERMAN EXPOSITORY PROSE. (3) (Humanities)</td>
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<tr>
<td>*216</td>
<td>GERMAN EXPOSITORY PROSE. (3) (Science)</td>
</tr>
<tr>
<td>*220</td>
<td>INTRODUCTION TO GERMAN CIVILIZATION. (3) German history, politics, philosophy, literature, and art from the middle of the Eighteenth Century to the present.</td>
</tr>
<tr>
<td>*230</td>
<td>READINGS IN GERMAN LITERATURE. (3) Lyric, prose, and drama. German literature with readings and discussion of major works and discussion of basic literary terms.</td>
</tr>
<tr>
<td>*232</td>
<td>LITERARY CURRENTS IN GERMAN LITERATURE FROM THE BEGINNINGS TO 1750. (3) Required of all German majors.</td>
</tr>
<tr>
<td>*260</td>
<td>THE CLASSICAL PERIOD. (3) Sturm und Drang, Goethe, and Schiller. Required of all German majors.</td>
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<tr>
<td>*261</td>
<td>GERMAN ROMANTICISM. (3) Novalis, Eichendorff, Brentano, Tieck, and others.</td>
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<tr>
<td>*265</td>
<td>GERMAN NOVEL IN THE NINETEENTH CENTURY. (3) Keller, Storm, Raabe, and Fontane.</td>
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<tr>
<td>*270</td>
<td>THE GERMAN SHORT STORY. (3) Thomas Mann, Heinrich Mann, Rilke, and Schnitzler.</td>
</tr>
<tr>
<td>*271</td>
<td>THE MODERN DRAMA. (3) The drama since 1880. Readings from Hauptmann, Hoffmannsthal and others.</td>
</tr>
<tr>
<td>*272</td>
<td>MODERN POETRY. (3) Representative German poets from Rilke to the present time.</td>
</tr>
<tr>
<td>*273</td>
<td>CONTEMPORARY LITERATURE—EAST AND WEST. (3) Present-day authors in East and West Germany. Grass, Boell, Johnson, Walser, Hilde-sheimer, Seghers and others.</td>
</tr>
<tr>
<td>*294</td>
<td>SELECTED READINGS. Credit by arrangement. Directed reading and study for summer and special students.</td>
</tr>
<tr>
<td>298</td>
<td>GERMAN STUDIES ABROAD. Credit by arrangement. German language and civilization (in German). History, economics, (in English). In collaboration with the University of Vienna (Strobl) and other Austrian and German universities.</td>
</tr>
<tr>
<td>325</td>
<td>TEACHING MODERN LANGUAGES. (3) (Ed 325).</td>
</tr>
<tr>
<td>*343</td>
<td>HESSE (IN TRANSLATION). (3) Selected works of Hermann Hesse.</td>
</tr>
<tr>
<td>*345</td>
<td>KAFKA (IN TRANSLATION). (3) Selected works of Franz Kafka.</td>
</tr>
<tr>
<td>*346</td>
<td>FAUST IN LEGEND AND LITERATURE (IN TRANSLATION). (3) The Faustian motif through the ages with special emphasis on Goethe's Faust, I and II.</td>
</tr>
</tbody>
</table>
INTRODUCTION TO LINGUISTICS. (3) (En 206).

SPANISH PRONUNCIATION. (3) A practical presentation of applied phonetics. Notions of linguistic science.

SPANISH CIVILIZATION. (3) The essential characteristics of Spanish civilization and its contribution to the Occidental world.

LATIN-AMERICAN CIVILIZATION. (3) The essential characteristics of the culture and civilization of Latin-America. Essays of Marti, Montalvo, Rodo, and others.

SPANISH AUTHORS I. (3) Spanish literature from the beginnings to the end of the Golden Century. Selected readings.

SPANISH AUTHORS II. (3) Spanish literature of the eighteenth, nineteenth, and twentieth centuries.

LATIN AMERICAN LITERATURE I. (3) From beginnings to end of Romantic period.

LATIN AMERICAN LITERATURE II. (3) From end of Romantic period to present day.

EPIC POETRY. (3) Cantar del Mio Cid, basic work of this genre, will be analyzed in the classroom. Other readings from the epic literature of Spain and Latin-America.

SPANISH MYSTICS. (3) Prose and poetry. The works of Santa Teresa de Jesus, Fray Luis de Leon, and Juan de la Cruz.


CERVANTES. (3) Life and works with analytical study of Don Quixote.


LOPE DE VEGA. (3) Life and work. His lyrical poetry. Representative plays.

CALERDON. (3) Ideas, poetry, and dramatic techniques. La vida es sueno. His mystery plays.

HISTORY OF THE SPANISH LANGUAGE. (3) Recommended for Spanish majors and teachers of Spanish.


**MODERNISM. (3)** The development of the "Modernista" movement from 1880 to 1920. The role of Ruben Dario.

**CONTEMPORARY LATIN-AMERICAN NOVEL. (3)** Development of this genre. Gallegos, Azuela, and Ciro Alegria.

**CONTEMPORARY LATIN-AMERICAN THEATRE. (3)** The period since 1940.

**PRESENT-DAY LITERARY TRENDS. (3)** Various literary trends in Spain and in Latin America from the mid-20's to the present.

**SELECTED READINGS.** Credit by arrangement. Independent readings and individual study of specific works of Hispanic literature under the supervision of a faculty member.

**SPANISH STUDIES ABROAD.** Credit by arrangement. Spanish language and civilization at the Pontificia Universidad Javeriana of Bogota, Colombia, or at other institutions in Latin-America and Spain.

**TEACHING MODERN LANGUAGES. (3) (Ed 325).**

**MASTERPIECES OF SPANISH LITERATURE (IN TRANSLATION). (3)** The outstanding authors of various periods in Spanish literature. Not applicable for Spanish major.

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

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**Philosophy (PI)**

*Staff:* FR. SCHMIDT, chairman; FR. BADO, MRS. BLAIR, DR. BONVILLAIN, MR. CHARLTON, FR. CURRAN, DR. DUMONT, DR. GENDREAU, DR. JONES, MR. MARRERO, FR. OPPENHEIM, DR. SOMERVILLE, FR. TILLMAN

*Assisted by:* FR. FOLEY, MR. HOGAN, FR. LIPPS, MR. MERCURIO, MR. STAUB

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

**Upper Division Courses**

*200 ORIGINS OF PHILOSOPHY. (3)** The nature of philosophical inquiry; a survey of ancient philosophy; Plato and Aristotle. Reserved to HAB students.

*210 LOGIC. (3)** The theory and rules of valid reasoning, chiefly deductive.

*220 PHILOSOPHY OF MAN. (3)** Man's distinctive operations, powers, freedom, nature, complex unity; the soul and its properties; man as a person and as social. Prerequisite to all the following courses in philosophy.

*230 METAPHYSICS. (3)** Being and existence; plurality and unity in being; change, contingency, and limitation; principles, causes, and properties of being. Prerequisite to all the following courses in philosophy.

*232 PHILOSOPHY OF GOD. (3)** A philosophical inquiry by natural reason into the source of finite and contingent beings; God. His knowability, existence, nature, and attributes. Prerequisites: PI 220, 230.

*235 THEORY OF KNOWLEDGE. (3)** Human knowledge from the viewpoint of its truth and certitude; error; judgment and the evidence that grounds it. Prerequisites: PI 220, 230.

*237 THE MATERIAL WORLD. (3)** Material being, its constitution and its properties; change, place, space, and time; the relations of the philosophy of nature to natural science. Prerequisites: PI 220, 230.

*240 PRINCIPLES OF ETHICS. (3)** The first principles of right human action; the purpose of human life; morality and its norm; law and rights; conscience; virtue; variant ethical systems. Prerequisites: PI 220, 230.

*241 CURRENT MORAL PROBLEMS. (3)** Rights and duties in such contemporary concerns as education, religion, life and health, sex, marriage, society, communication, race relations, property, economic and political life, international relations. Prerequisite: PI 240.

*243 PRINCIPLES OF POLITICAL PHILOSOPHY. (3)** Political society; its need, nature, and end; authority; the state; sovereignty; relations of state to citizens and to other societies. Prerequisite: PI 241.

*244 MEDICAL ETHICS. (3)** Rights and duties of physicians and of patients; life and health; euthanasia; mutilation; sterilization; pregnancy; contraception, abortion; professional conduct. Prerequisite: PI 241.

*246 BUSINESS ETHICS. (3)** Problems of rights, justice, and law in economic life; private enterprise; competition; buying and selling, prices, wages, labor relations, unions; government regulation. Prerequisite: PI 241.

*250 HISTORY OF ANCIENT PHILOSOPHY. (3)** Greek philosophy from its beginning to Neoplatonism. Plato and Aristotle. Offered in the fall of even-numbered years.

*260 HISTORY OF MEDIEVAL PHILOSOPHY. (3)** Philosophy in the West from Augustine to the Fourteenth Century, including Islamic and Jewish philosophy. Offered in the fall of odd-numbered years.

*270 HISTORY OF MODERN PHILOSOPHY. (3)** Philosophy in Europe from the Seventeenth to the Nineteenth Century, especially rationalism, empiricism, critical philosophy, and idealism. Spring semester only.

*280 HISTORY OF CONTEMPORARY PHILOSOPHY. (3)** The principal philosophies of the Twentieth Century in Continental Europe, Britain, and America. Spring semester only.

*287 CHINA: INTELLECTUAL HISTORY. (3)** (Hs 287, Po 287).

*288 JAPAN: INTELLECTUAL HISTORY. (3)** (Hs 288, Po 288).

*310 SYMBOLIC LOGIC. (3)** Modern theories, procedures, and symbolic systems in logic; the calculus of propositions and of classes.

*324 PHILOSOPHY OF HISTORY. (3)** The nature and sources of history; the temporality of human existence; historical evidence; evaluation and interpretation; interpretative theories; objectivity and certainty.
**Philosophy**

*326 PHILOSOPHY OF ART. (3) Artificial being and human creativity; practical knowledge and affectivity; beauty; aesthetic enjoyment; art appreciation.

*328 PHILOSOPHY OF LITERATURE. (3) (En 260).

*338 PHILOSOPHY OF SCIENCE. (3) The nature of scientific knowledge, investigation, and theory; the relations of science and philosophy; problems for philosophy raised by science.

*381 CONTEMPORARY CONTINENTAL EUROPEAN PHILOSOPHY. (3) One or more current continental philosophies; e.g., phenomenology, existentialism, personalism, Marxism, and their methods. Fall semester only.

*383 CONTEMPORARY BRITISH AND AMERICAN PHILOSOPHY. (3) One or more philosophies current in Britain or America; e.g., linguistic analysis, naturalism, pragmatism, and their methods. Spring semester only.

384 PHILOSOPHY OF BLACK EXPERIENCE. (3) Philosophical study of the culture of black peoples; African philosophies and religions; Black culture in U.S. before and right after Civil War; contemporary world-wide negritude movement.

*395 SPECIAL STUDY. Credit to be arranged.

398 SENIOR COMPREHENSIVE REVIEW I. (1) Recommended but not required.

399 SENIOR COMPREHENSIVE REVIEW II. (1) Recommended but not required.

Graduate Courses

524 PHILOSOPHY OF LOVE. (3)

525 VIEWS ON MAN’S FREEDOM. (3)

526 AESTHETICS AND PHILOSOPHY OF ART. (3) (En 526).

538 PHILOSOPHICAL PROBLEMS IN MODERN SCIENCE. (3)

543 SOCIETY AND COMMUNITY. (3)

547 PHILOSOPHY OF REVOLUTION. (3)

548 RECENT ETHICAL THEORIES. (3)

549 WAR AND PEACE. (3)

572 THE RATIONALISTS. (3)

575 THE BRITISH EMPIRICISTS. (3)

583 EXISTENTIALISM AND PHENOMENOLOGY. (3)

586 LINGUISTIC ANALYSIS. (3)

592 AMERICAN PRAGMATISTS. (3)

652 PLATO: MAJOR DIALOGUES. (3)

655 ARISTOTLE. (3)

**Physics**

661 PHILOSOPHY OF ST. AUGUSTINE. (3)

663 PHILOSOPHY OF ST. BONAVENTURE. (3)

665 PHILOSOPHY OF ST. THOMAS AQUINAS. (3)

666 WORKS OF ST. THOMAS AQUINAS. (3)

671 DESCARTES. (3)

675 HUME. (3)

677 KANT. (3)

679 HEGEL. (3)

698 SPECIAL STUDY. Credit to be arranged.

699 MASTER’S THESIS. (6)

**Physics (Ph)**

*Staff: DR. MILLER, chairman; FR. BRADLEY, MR. HART, FR. O’BRIEN, MR. TOEPKER, FR. VOLLMAYER

*Research Professor: DR. WERNER

*Laboratory Manager: BRO. RIEHLE

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

**Lower Division Courses**

*100, ELEMENTARY ASTRONOMY I, II. (2) each semester. The basic theories of astronomy, the telescope, rocket and satellite exploration of the solar system, cosmology, stars, and galaxies.

*101, ASTRONOMY LABORATORY I, II. (1) each semester to accompany Ph 100, 102 respectively. Observatory and planetarium facilities will be used.


109 UNIVERSITY PHYSICS LABORATORY I. (1) Laboratory to accompany Ph 108.


111 UNIVERSITY PHYSICS LABORATORY II. (1) Laboratory to accompany Ph 110.

114 INTRODUCTION TO PHYSICAL SCIENCES. (3) For elementary education majors only.

115 INTRODUCTION TO PHYSICAL SCIENCES LABORATORY. (1)

*117 THE EARTH AND ITS ENVIRONMENT LABORATORY I. (1) Laboratory to accompany Ph 116.


*119 THE EARTH AND ITS ENVIRONMENT LABORATORY II. (1) Laboratory to accompany Ph 118.

120 RADIATION PHYSICS I. (2) Energy, the structure of matter, electricity, magnetism, radioactivity, and the nature and production of X-rays. Calculations in radiology. For radiologic technology students.

121 RADIATION PHYSICS II. (2) A continuation of Ph 120.


161 DIGITAL COMPUTERS IN PHYSICS. (1) The use of the FORTRAN computer language and the digital IBM 360 computer.

162, ANALOG COMPUTERS IN PHYSICS I, II. (1) each semester. The use of the analog computer in simulation of problems involving mechanical and electrical vibrations, probability, and biorhythms.

Upper Division Courses

204 ANALOG COMPUTER WORKSHOP. (3)

205 TIME-SHARING COMPUTER WORKSHOP. (3)

206, ADVANCED STUDY OF BASIC PHYSICS I, II. (3) each semester. The broad implications of the fundamental principles of general physics. Prerequisite: General Physics or the equivalent.


243, ELECTRONICS LABORATORY I, II. (1) Laboratory to accompany Ph 242, 244 respectively.

350 THEORETICAL MECHANICS I. (3) Calculus of vectors, conservative forces, nonlinear oscillator, forced oscillations with damping, conservation of linear and angular momentum, and normal coordinates.

352 ELECTROMAGNETISM I. (3) Coulomb's law, Ampere's law, Faraday's law, Maxwell's electromagnetic equations in free space and material media. Course is given in vector notation.

356 METHODS OF MATHEMATICAL PHYSICS. (3) Matrix and vector algebra, complex variables, integral transforms, and linear partial differential equations.
# Psychology (Ps)

**Staff:** DR. BIELIAUSKAS, chairman; MR. LaGRANGE, executive officer; DR. BARRY, DR. BERG, DR. CERBUS, DR. CLARKE, DR. COSGROVE, DR. FEDORAVICIUS, DR. FEUSS, FR. FOLEY, DR. GROSS, DR. HELLKAMP, DR. KRONENBERGER, DR. PERLMUTTER, DR. QUATMAN, DR. ROTH, DR. SCHMIDT

**Assisted by:** MR. BLASE, MR. BRINKER, MRS. COHEN, MR. DINERMAN, DR. KROES, MR. MANG, DR. LIPPERT, MR. SETA

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

## Lower Division Courses

100 **EFFICIENT READING AND STUDY SKILLS.** (0) Reading comprehension, rate of reading, study habits. Increase ability to interpret, analyze, and evaluate general reading material and specific course areas.

*101 **GENERAL PSYCHOLOGY.** (3) Basic psychological processes such as sensation, perception, motivation, learning, psychological measurements, personality development.

*102 **ADVANCED GENERAL PSYCHOLOGY.** (3) Scientific methodology in psychology. Application to experimental studies in perception, motivation, thinking, memory, learning, individual differences. Prerequisite: Ps 101.

*121 **GENERAL EXPERIMENTAL PSYCHOLOGY.** (2) Principles of behavioral science: sensory functions, perception, learning, emotion, motivation. Fulfills science requirement for non-psychology majors. See Ps 122.

*122 **GENERAL EXPERIMENTAL PSYCHOLOGY I LABORATORY.** (1) (three laboratory hours per week). Laboratory experiments demonstrating principles described in the lectures (Ps 121). To be taken with Ps 121.

*123 **GENERAL EXPERIMENTAL PSYCHOLOGY II.** (2) Behavior problems: memory, language, interpersonal behavior, personality, human performance, man-machine systems. Fulfills science requirement for non-psychology majors. See Ps 124.

*124 **GENERAL EXPERIMENTAL PSYCHOLOGY II LABORATORY.** (1) (three laboratory hours per week). Experiments demonstrating principles described in the lectures (Ps 123). To be taken with Ps 123.

*141 **EDUCATION PSYCHOLOGY.** (3) Prerequisite: Ps 101. (Ed 141).

## Upper Division Courses

*201 **HISTORY AND SYSTEMS OF PSYCHOLOGY.** (2-3) Modern scientific psychology including its various schools and their backgrounds. Reading in a broad field of psychological theory required.

210 **STATISTICAL TECHNIQUES.** (2-3) Basic statistics in psychology and education. Measures of central tendency and variability, correlation techniques, and experimental test of differences among groups. (Ed 510).

221 **EXPERIMENTAL PSYCHOLOGY I.** (3) Aims and techniques of experimental psychology. Physiological bases of behavior, senses, perception. One lecture, four hours lab per week. Prerequisites: Ps 101, 102, 211.

222 **EXPERIMENTAL PSYCHOLOGY II.** (3) Learning, emotion, motivation, social behavior. Animal and human subjects. Planning. Instrumentation. Controls. One lecture, four hours lab per week. Prerequisite: Ps 221.

223 **EXPERIMENTAL PSYCHOLOGY.** (5) Summers only.


277 **THE BIOLOGICAL BASIS OF ANIMAL BEHAVIOR.** (4) (Bl 340, 341).

231 **DEVELOPMENTAL PSYCHOLOGY.** (3) Factors influencing man's life span. Application to stages of psychological maturation, developmental tasks, social learning, personality integration. (Ed 231).

232 **CHILD PSYCHOLOGY.** (2) The genetic study of growth and development; hereditary and environmental factors; early and later childhood to puberty. (Ed 234).

233 **ADOLESCENT PSYCHOLOGY.** (2) Interrelated physical, physiological, and mental changes associated with adolescence. (Ed 233).


237 **PSYCHOLOGY OF LEARNING.** (3) Experimental study of human and animal learning, including transfer, mediation, retention, verbal and concept learning. Prerequisite: Ps 101. (Ed 237).

239 **PSYCHOLOGY OF MOTIVATION.** (3) Theoretical and experimental approaches to the understanding of processes that determine the strength and direction of behavior. Prerequisite: Ps 301. (Ed 239).

251 **INDUSTRIAL PSYCHOLOGY.** (2-3) Principles of sound psychological procedure as applied to personnel in commerce and industry. Concentration upon human element in American industry. (IR 330).

*261 **SOCIAL PSYCHOLOGY.** (2) The individual's personality, attitudes, and behavior in multi-individual situations. (Ed 261, So 261).

262 **SOCIAL DYNAMICS OF COMMUNICATION.** (3) (So 262, Ed 262).


264 **THEORIES OF PERSONALITY II.** (2) Description and evaluation of current personality theories. Continuation of Ps 263. (Ed 264).

*266 **CRIME AND PERSONALITY.** (3) Root causes of crime in the individual and in the culture. Consideration of personality dynamics and treatment approaches. (Cr 266, Ed 266).
INTRODUCTION TO THE EMOTIONALLY DISTURBED CHILD. (2) (Ed 271).

EDUCATING THE DISTURBED CHILD. (2) (Ed 273).

MENTAL HYGIENE. (2) Progressive stages of development in emotional growth. Factors of adjustment and maladjustment in education, social relations, and occupations. (Ed 274).

DYNAMIC PSYCHOLOGY. (2) Personality concepts and methodology of various psycho-therapeutic schools. Freudian, Adlerian, Jungian, Ronkian existential and client-centered approaches. (Ed 275).

PSYCHOLOGY OF DELINQUENCY. (2) Types and causes of juvenile delinquency together with brief case histories. (Ed 276).

*ABNORMAL PSYCHOLOGY. (2-3) Dynamics of the disturbed personality; symptoms, causes, treatment of psychoneuroses, psychoses, deviant personalities. (Ed 277).

PSYCHOLOGICAL AND ACHIEVEMENT TESTS. (2-3) (Ed 279).

INTRODUCTION TO PROTECTIVE TECHNIQUES. (2-3) Theory and rationale. Rorschach techniques, Thematic Apperception test, Szondi Test, visual motor tests, drawing techniques, word association tests. (Ed 280).

READINGS IN PSYCHOLOGY. (1-3) Library research project assisted and supervised by staff member. Final oral exam. Seniors, graduate students only. Required research paper. (Ed 281).

PRACTICUM IN PSYCHOLOGICAL TESTING. (2-3) Practical experience in administering of group tests; scoring and interpretation. Prerequisite: Ps 279 and instructor's approval. (Ed 283).

THE PSYCHOLOGY OF RELIGION. (3) (Th 285).

SENIOR COMPREHENSIVE REVIEW. (2) Required of all majors. May substitute original research project upon approval of Departmental Chairman. Prerequisite: senior standing and instructor's approval. (Ed 299).

PSYCHOLOGY OF MASCULINITY AND FEMINITY. (3)

DIRECTED STUDY. Credit to be arranged.

Graduate Courses

The following courses are required of all graduate students: 263, 264, 501, 502, 507.

CONTEMPORARY THEORIES IN PSYCHOLOGY. (3) An evaluative review of the concepts basic to current theory, research, and practice in psychology and its major divisions. (Ed 501).

PHILOSOPHICAL ISSUES IN PSYCHOLOGY. (3) Historical development of basic psychological concepts from Aristotle to the present. Interrelations between science, psychology, and philosophy. (Ed 502).

ADVANCED EDUCATIONAL PSYCHOLOGY. (3) (Ed 503).

PROFESSIONAL PROBLEMS IN PSYCHOLOGY. (1) Basic principles of ethics and their application to psychological theory, research, and practice. Case studies. (Ed 505).

ROLE AND FUNCTION OF SCHOOL PSYCHOLOGIST. (2) (Ed 507).


ADVANCED EXPERIMENTAL PSYCHOLOGY. (3) Intensive survey of experimental procedures and findings; utilization of laboratory equipment; introduction to individual laboratory research. (Ed 521).

BEHAVIOR MODIFICATION. (3) Theoretical and empirical bases of behavior modification, different techniques and their application in a variety of settings with a variety of problems. (Ed 529).

LEARNING AND MOTIVATION. (3) Theories of learning. Concepts of drive, reinforcement, generalization, discrimination, transfer of training, retention and forgetting. (Ed 530).

VOCATIONAL AND EDUCATIONAL GUIDANCE. (2) (Ed 532).

COUNSELING PRINCIPLES AND TECHNIQUES. (2) (Ed 533).

OCCUPATIONAL INFORMATION. (2) Sources of information about occupational fields and their utilization in counseling. Psychology of career choice. (Ed 535).

GROUP GUIDANCE. (2) (Ed 536).

DESIGN OF EXPERIMENTS. (3) (Ed 538).

PERSONAL SELECTION AND EVALUATION TECHNIQUES. (3) (Ed 552).

MARKETING RESEARCH. (3) (BA 562).

PSYCHOPATHOLOGY. (2) (Ed 580).

INDIVIDUAL TESTS OF INTELLIGENCE. (2-4) (Ed 582).

PROJECTIVE TECHNIQUES I. (3) (Ed 584).

PROJECTIVE TECHNIQUES II. (3) Prerequisite: Ps 584.

COUNSELING AND PSYCHOTHERAPY. (3) (Ed 589).

PRACTICUM: EXPERIMENTAL PSYCHOLOGY. (3-6) (Ed 590).

PRACTICUM: CLINICAL PSYCHOLOGY. (3-6) (Ed 591).

PRACTICUM: COUNSELING PSYCHOLOGY. (3-6) (Ed 592).

PRACTICUM: INDUSTRIAL PSYCHOLOGY. (3-6) (Ed 593).

WORKSHOPS AND INSTITUTES. Titles and credit hours will be announced in each individual case. (Ed 600-).

SEMINAR: INDUSTRIAL PSYCHOLOGY. (2) (Ed 643).

MOTIVATION AND BEHAVIOR IN ORGANIZATIONS. (3) (Ed 644).
Sociology

645 ADVANCED DEVELOPMENTAL PSYCHOLOGY. (3) (Ed 645).
646 PSYCHOLOGY OF THE EXCEPTIONAL CHILD. (3) (Ed 646).
647 CLINICAL STUDIES: TEACHING THE EMOTIONALLY DISTURBED CHILD. (2) (Ed 647).
648 PRACTICUM: TEACHING THE EMOTIONALLY DISTURBED CHILD. (2) (Ed 648).
649 INTERNSHIP: TEACHING THE EMOTIONALLY DISTURBED CHILD. (2-6) (Ed 649).
651 MONTESSORI EDUCATION: PHILOSOPHICAL ASPECTS. See Ed 651.
652 CURRENT THEORY AND RESEARCH IN CHILD DEVELOPMENT. (3) (Ed 652).
653 EARLY COGNITIVE DEVELOPMENT. (3) (Ed 653).
670 PSYCHOLOGY OF READING. (2) (Ed 670).
678 DIAGNOSIS AND CORRECTION OF READING DISABILITIES. (3) (Ed 678).
689 RESEARCH IN PSYCHOLOGY. (3) Titles to be specified.
690 INTERNSHIP IN SCHOOL PSYCHOLOGY. (6) per semester. A year’s course.
699 MASTER’S THESIS. (6)

Sociology (So) and Anthropology (An)

Staff: MR. WEIR, chairman; MR. EGAN, S.J.
Assisted by: DR. BROWNING, MISS DWYER, DR. FOSTER, SR. FRANKENBERG, MR. LEVINRAD, MR. MALONEY

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

Lower Division Courses

*101 INTRODUCTION TO SOCIOLOGY. (3) Social behavior within the context of group structure, society, and culture. Basic sociological terminology and methodology.

*111 SCIENCE AND SOCIETY. (3)

*121 CONTEMPORARY SOCIAL PROBLEMS. (3) The function of cultural values and social structures in defining social problems and proposing solutions. Problems are considered in terms of their origin, extent, and treatment.

Upper Division Courses

216 SOCIOLOGY OF RELIGION. (3) Classical and contemporary sociological perspectives concerning relationship between religion and society.

*218 SOCIOLOGY OF EDUCATION. (3) (Ed 218).
Upper Division Courses

Symbols which indicate areas of study for majors in Theology: B—Biblical Theology; S—Systematic Theology; P—Practical Theology; H—Historical Theology; R—Religious Studies.


*205 THEOLOGY OF CREATION. S. (3) The origin, evolution, preservation and destiny of man and the universe as seen by non-Christian religions, modern science and the Christian revelation.

*206 EARLY CHRISTIANITY. S-H. (3) Development of Christianity from the apostolic age through the Christological and Trinitarian controversies of the first centuries.

*208 CHRIST IN MODERN THOUGHT. S. (3) Current Christological trends with emphasis on Scripture, the humanity of Jesus, His resurrection, paschal mystery, presence, evolutionary worldview.


*213 MARY: SIGN OF HOPE. S. (3) Mary's place in Christian life and theology in the light of biblical revelation, tradition, historical and theological development and ecumenical perspective.

*215 THE SUPERNATURAL LIFE OF MAN. S. (3) Man's elevation to a participation in the divine life through the indwelling Spirit. Sanctifying grace and the charismatic gifts.

*216 SOCIOLOGY OF RELIGION. R. (3) (So 216).

*217 THE THEOLOGY OF DEATH. S. (3) Man's passage through death and life-after-death seen as a re-evaluation of the Present, a realization of creation and as total human fulfillment.

*218 DEMONOLOGY. S. (3) Traditional and modern interpretations of the biblical evidence for the existence and nature of Satan and hell. The modern cult of the occult.

*223 SACRAMENTAL ENCOUNTER WITH CHRIST. S. (3) The sacraments as continuations in the Church of the mysteries of Christ's life and as personal encounters between Christ and the Christian.

*226 POST-VATICAN II EUCHARISTIC THEOLOGY. S. (3) Historical developments and new thrusts in Eucharistic theology, such as: transfiguration, transfigural.

*232 THE MODERN PROBLEM OF GOD. S. (3) The perennial problem of man's knowledge of and approach to God as seen especially in its contemporary atheistic forms.

*233 AUTHORITY IN THE CHURCH. S. (3) Contemporary Roman Catholic teaching on Church authority, especially the papacy and episcopal collegiality, in the light of non-Roman positions.


*235 AFRICAN RELIGIONS. H. (3) A sociological and theological study of the religions of the peoples of Africa in the past and present as background to understanding current beliefs and practices of the Black community in America.

*236 CHRISTIAN SECULARITY. S. (3) The Christian's involvement in the world; the secularization process in history; the relation of the sacred and the secular.

*237 THE BLACK CHURCH IN AMERICA. H. (3) The impact of Christianity upon Black American culture from the time of enslavement to the present.

*240 THE THEOLOGY OF KARL RAHNER. S. (3) His ideas on revelation, faith, history, Christ, Church, sacraments, anonymous Christianity, mystery, tradition and other topics.

*241 THE THEOLOGY OF TEILHARD DE CHARDIN. S. (3) His ideas on evolution, hominization, Christianization and their influence on current theology.

*242 THE THEOLOGY OF PAUL TILLICH. S. (3) Tillich's writings, especially his Systematic Theology.

*243 CONTEMPORARY PROTESTANT THEOLOGIANS. S-H. (3) Significant currents of theological thought among leading Protestant theologians in the twentieth century.

*250 READING AND UNDERSTANDING THE OLD TESTAMENT. B. (3) Modern methods of interpreting the Old Testament from the historical and cultural backgrounds of the various books.

*251 BASIC THEOLOGICAL CONCEPTS IN THE OLD TESTAMENT. B. (3) The meanings of such concepts as prophecy, messianism, Torah, justice, "hesed", etc. and the influence of these ideas on Judaism and Christianity.

*252 THE MOSES TRADITION. B. (3) Descriptive study. Varying viewpoints of Judaism and Christianity in their historical development. Discussion with religious leaders in the community and field trips to places of worship Team-taught with Th 263.

*259 INTERTESTAMENTAL HISTORY AND LITERATURE. H. (3) The Jewish Diaspora, Josephus, the Qumran community and thought, the apocalypse, Gnosticism, and the Hermetic literature.


*263 THE JESUS TRADITION. B. (3) See Th 252.

*264 THE SYNOPTIC GOSPELS. B. (3) The composition of these Gospels and the distinctive features of each Gospel.

*270 THEOLOGY OF NEW TESTAMENT SPIRITUALITY. B. (3) A comprehensive survey of the spiritual teaching in the Gospels and the Pauline letters.


*281 BELIEF AND NON-BELIEF IN MODERN LITERATURE. R. (3) The crisis of faith in modern man as expressed in significant works of modern literature. (En 281).

*282 THEOLOGICAL THEMES IN AMERICAN LITERATURE. (3) (En 282).

*283 MAN, GOD AND LITERATURE. R. (3) Religion, justice, nature, love, fine art and science discussed within literary artifacts in the light of theological implications. (En 283)

*284 LITERATURE AND HUMANISM. R. (3) Humanism of the Greeks and of the Renaissance studied as it evolved into the Humanist Manifesto I and II. (En 284).


*286 THE SCAPEGOAT: RITUAL AND LITERATURE. R. (3) The image of the scapegoat as expressed in religion and literature at various periods of man's cultural history. (En 286).

*287 LOVE IN THE WESTERN WORLD. R. (3) (En 287).

*289 THE HUMAN PREDICAMENT IN MODERN LITERATURE. R. (3) (En 289).

*293 JESUS IN MODERN FICTION. R. (3) (En 293).

*302 PRINCIPLES OF CHRISTIAN MORALITY. P. (3) Moral problems in both the personal and the public sectors of modern society in the light of Christian moral teaching.

*308 CHRISTIANITY AND POLITICS. H. (3) The history and content of the Judaic-Christian tradition regarding politics, the state, war and other topics.
*309 THE THEOLOGY OF SEXUALITY. P. (3) Contemporary attitudes toward pre-marital sex, auto-eroticism, homosexuality, and intra and extra marital practices examined in the light of Christian traditions and norms.

*310 MARRIAGE AND THE FAMILY. P. (3) The latest insights into the theology of marriage and the family, married love, the wonder of birth and the challenge of parenthood. (So 310).

*311 THEOLOGY OF CRIME AND PUNISHMENT. P. (3) Moral and criminal law related to violations of justice and the historic and contemporary views on sanctions and preventative measures.


*313 THEOLOGY OF LIBERATION. S-H. (3) Theories of liberation, religious, political, feminine, economic, racial and educational, in the light of the Christian redemption.

*314 THE THEOLOGY OF NON-VIOLENCE. P. (3) Traditional and contemporary Christian attitudes on the morality of violence, pacifism, revolution and war.


*321 THEOLOGY OF THE LAITY. P. (3) The role of the laity in the conversion of this world to Christ and in the Church in the light of the decrees of Vatican II and modern theologians.

*322 HISTORY OF CHRISTIAN SPIRITUALITY. P. (3) Great writers and institutions. Their modern relevance. The desert fathers, monasticism, mendicant orders, medieval mysticism, Ignatian and post-Reformation spirituality.

*323 MAN AT PRAYER. P. (3) The nature, objectives, conditions, methods and styles of prayer. The liturgy, spiritual retreats, discernment of God’s will, answer to prayer.

*328 LITURGY AND CHRISTIAN LIFE I. P. (3) The ritualization of communication with God in Jesus in the liturgy of Word and Sacrifice (the Mass), of initiation (Baptism-Confirmation) and of reconversion (Penance).


*330 RELIGIOUS EDUCATION: TOTAL APPROACH. P. (3) Phases of religious education from birth through death. (Ed 333).


*336 ELEMENTARY SCHOOL RELIGIOUS EDUCATION. P. (3) The content of elementary school religion programs. For elementary principals and teachers of religion. (Ed 336).

*337 RELIGIOUS EDUCATION PRACTICUM. P. (3) Supervised teaching of religion on the elementary or secondary levels. (Ed 337).


*339 PARISH COORDINATORS OF RELIGIOUS EDUCATION. P. (3) The organizational skills and resources required by parish coordinators of religious education. (Ed 339).

*341 THEOLOGY AS ANTHROPOLOGY. S. (3) Based on the writings of Karl Rahner.


*346 GREAT CHRISTIAN THINKERS. H. (3) Ideas and contributions to Christian theology by Augustine, Thomas Aquinas and other leading theologians.

*348 THE MEDIEVAL JEWISH EXPERIENCE. H. (3) From the fall of Jerusalem, 70 A.D., to the Napoleonic era. The Talmudic material. Liturgy of the synagogue. Medieval philosophy and mysticism. The ghetto and the Diaspora.

*350 MODERN JEWISH LIFE. H. (3) Napoleon to the present. Jewish movements in the modern age: Reform, Zionism, Hasidism, the State of Israel. The Jewish community in America. Cultural renaissance in Israel, the United States and England.

*356 ARCHAEOLOGY OF THE HOLY LAND AND NEAR EAST. B-H. (3) Study of major Syro-Palestinian digs with color slides and artifacts as an aid to understanding the Sacred Scriptures.

*361 EASTERN ORTHODOXY. H. (3) The history, church structure, liturgy, iconography and spiritual life of the Orthodox Churches from the beginnings to the present day.

*370 REFORMATION HISTORY AND THEOLOGY. H. (3) The lives and basic teachings of the principal Sixteenth Century Reformers.

*374 THE CHRISTIAN CHURCHES IN AMERICA. H. (3) The arrival and growth of the Catholic and Protestant Churches. Their inter-relations and involvement in the sociological history of the United States.

*375 THE PROTESTANT CHURCHES IN THE UNITED STATES. H. (3) A survey of the doctrine, ritual and organization of the major Protestant denominations.
Theology

*376 ROMAN CATHOLICISM IN AMERICAN HISTORY. H. (3) The transplanta­tion of Roman Catholicism to America: colonization, immigration, the formation of an American Catholic Church.

*377 THE EXPERIENCE OF THE AMERICAN CHURCH IN THE CITY. H. (3) The impact of varying urban situations on the Church and the role of the Church in the social apostolate.

*380 HISTORY OF THE ECUMENICAL MOVEMENT. H. (3) The factors leading to the divisions in East and West. The search for Christian reunion culminating in The World Council of Churches and Vatican II.

*381 THEOLOGY OF CHRISTIAN UNITY. S. (3) Principles of Christian Unity according to Vatican II and contemporary theologians. Church structure and membership, dialogue, intercommunion, mixed marriages and religious liberty.

*383 MAN AT PLAY. P. (3) The phenomenon of play in its forms of leisure, games, celebration and fantasy as these human activities are related to Christian consciousness.

*386 CHURCH AND STATE IN AMERICA. H. (3) The conflicts that have marked the growth of the Roman Catholic Church in the United States in the broader context of the role of the Vatican vis-a-vis the State in history. (Hs 386).

*398 CHRISTIAN COMMITMENT. P. (3) A special program in faith experience, community, prayer, and formation of conscience. Admission by interview only.

Accounting

**377 THE EXPERIENCE OF THE AMERICAN CHURCH IN THE CITY. H. (3) The impact of varying urban situations on the Church and the role of the Church in the social apostolate.

**380 HISTORY OF THE ECUMENICAL MOVEMENT. H. (3) The factors leading to the divisions in East and West. The search for Christian reunion culminating in The World Council of Churches and Vatican II.

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**398 CHRISTIAN COMMITMENT. P. (3) A special program in faith experience, community, prayer, and formation of conscience. Admission by interview only.

Departments —
The College of Business Administration

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

**Accounting (Ac)**

*Staff:* DR. CROXALL, *chairman*; MR. BEHLER, MR. MALY, MR. SCHUTZMAN, MR. SMITH, MR. WILZ

*Assisted by:* MR. GRATHWOHL, MR. GRIFFIN, MR. N. O'CONNOR, MR. VONDERBRINK, MR. WOOD

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

**Lower Division Courses**

100 PRINCIPLES OF ACCOUNTING. (3) Elementary principles and procedures supplemented with practical problems and practice sets.

101 PRINCIPLES OF ACCOUNTING. (3) A continuation of Ac 100 which is also prerequisite.

**Upper Division Courses**

200 INTERMEDIATE ACCOUNTING. (3) A broad background of theory co-ordinated with practical problems. Prerequisite: Ac 101.

201 INTERMEDIATE ACCOUNTING. (3) A continuation of Ac 200 which is also a prerequisite.

220 MANAGERIAL COST ACCOUNTING. (3) Study of elements involved in industrial production with special emphasis on costs and reports. Prerequisite: Ac 201.

221 MANAGERIAL COST ACCOUNTING. (3) A continuation of Ac 220 which is also prerequisite.

230 TAXATION. (3) Tax laws with special emphasis on federal tax laws as it relates to individuals. Prerequisite: Ac 201.

231 EFFECTIVE TAX PLANNING. (3) Tax planning as it relates to corporations, partnerships, trusts, and estates. Prerequisites: Ac 201, Ac 221.

260 ANALYSIS OF FINANCIAL STATEMENTS. (3) A study of the significance, development, and technique of financial statement analyses of business enterprises. Prerequisite: Ac 201.
Business Administration

280 ACCOUNTING FOR NON-BUSINESS STUDENTS. (3) Non-technical approach to management of personal and business finances, taxes, and investments.

297 TUTORIAL COURSE. (2-3) Special reading and study for advanced students.

310 ADVANCED ACCOUNTING PROBLEMS. (3) Advanced study in accounting theory and related problems applicable to partnerships and corporations, insurance, and fiduciaries. Prerequisite: Ac 201.

315 ADVANCED ACCOUNTING THEORY. (3) Theory and current issues as identified through releases of FASB, CASB, and SEC. Prerequisites: Ac 310 and permission of instructor.

320 AUDITING PRINCIPLES. (3) A comprehensive study of the fundamental principles of auditing. Prerequisite: Ac 201.

325 ADVANCED AUDITING. (3) Auditing theory applicable to independent and internal management audits of corporations and governments. Prerequisite: Ac 320 and permission of the instructor.

330 ACCOUNTING FOR NON-PROFIT INSTITUTIONS. (3) Budgetary control, the operation of funds, and management reporting in Federal agencies. Prerequisites: Ac 201 and Ac 221.

340 DATA PROCESSING. (3) (Mg 340).

341 SYSTEMS: ANALYSIS AND DESIGNS. (3) (Mg 341).

342 MANAGERIAL ASPECTS OF DATA PROCESSING. (3) (Mg 342).

For graduate courses in accounting see Business Administration: Graduate Division.

For the M.B.A. degree with a concentration in accounting see Graduate School: the Master of Business Administration.

Business Administration (BA)

The following are general business service courses in Business Administration. Professors are assigned to these courses by the other departments in the College of Business Administration.

270 BUSINESS STATISTICS. (3) Descriptive statistics and statistical inference. Frequency distributions, measures of central tendency and dispersion, probability, sampling, estimation of parameters, test of hypotheses, and simple linear regression and correlation analysis.


*280 LEGAL ENVIRONMENT. (3) To give the student a background of law by which he may critically evaluate the development of the law and the purposes which the law is intended to serve.

521 MICRO ECONOMICS: THEORY AND APPLICATIONS. (3) (Ec 521).
522 MACRO ECONOMICS: THEORY AND POLICY. (3) (Ec 522).
523 QUANTITATIVE TECHNIQUES IN ECONOMIC ANALYSIS. (3) (Ec 523).
524 SEMINAR: DEVELOPMENT OF ECONOMIC THOUGHT. (3) (Ec 524).
530 MANAGERIAL ECONOMICS. (3) Economic analysis as applied to practical business operation. Tools of economic analysis; types of economic competition and their effect on individual firms and industries. (Ec 530).
532 BUSINESS FORECASTING. (3) (Ec 532).
538 ECONOMICS OF LABOR. (3) (Ec 538).
539 SEMINAR: CURRENT ECONOMIC PROBLEMS. (3) (Ec 539).
546 LOCATION OF BUSINESS AND ECONOMIC ACTIVITY. (3) The location of productive facilities. Marketing the finished product. Interrelationship of supply sources, location of productive facilities, and the market area. (Ec 546).
550 PROBLEMS IN BUSINESS FINANCE. (3) Financing current operations, policies, promotion, expansion, problems involving financial analysis and planning of capital structures. Case study method. Prerequisites: BA 507, 513. (Ec 550).
552 INVESTMENT MANAGEMENT. (3) Selection and management of a portfolio, based on carefully evaluated probabilities and sound techniques of security analysis. Prerequisite: BA 507 or equivalent. (Ec 552).
553 CORPORATE FINANCIAL STRATEGY. (3) Quantitative and nonquantitative methods to problems of working capital management, capital structure and budgeting, fixed asset management, valuation, and profitability. (Ec 553).
554 FINANCIAL PLANNING. (3) Individual, family, executive, business, corporate, national and international financial planning. Prerequisite: BA 513 or equivalent. (Ec 554).
555 CONTROLLERSHIP. (3) The duties and responsibilities of the controller. New and advanced techniques in taxes and accounting. Prerequisite: BA 513. (Ec 555).
556 CONTEMPORARY PROBLEMS IN ACCOUNTING AND FINANCE. (3) Non-technical coverage of problems in accounting and finance relating to business organizations. Prerequisite: BA 503 or equivalent. (Ec 556).
558 ADVANCED AUDITING. (3) Auditing theory applicable to independent and internal management audits of corporations and governments. Utilization of the computer as a major audit tool. Prerequisite: Ac 320. (Ec 558).

559 GOVERNMENTAL FINANCIAL MANAGEMENT. (3) Application of accounting principles to government and non-profit institutions. Emphasis on budgetary control, fund operation, and management reporting. Prerequisites: Ac 201 and Ac 221. (Ec 559).
561 MARKETING MANAGEMENT. (3) New developments. Individual reports used for practical demonstration of theory application. Prerequisite: BA 515. (Ec 561).
562 MARKETING RESEARCH. (3) Methods and techniques of marketing research; its use as a tool of management; cases in marketing research. (Ec 562).
563 INDUSTRIAL MARKETING. (3) Problems of marketing industrial products. Management of the marketing channels and pricing, selling, and distribution of the products. (Ec 563).
564 CONSUMER BEHAVIOR THEORY. (3) Evaluation of research findings from behavioral sciences and other disciplines. Relationship to marketing. (Ec 564).
565 ADVERTISING. (3) The role of advertising in the marketing process. The advertising campaign, its creative and media components. The decision processes. Case method. Prerequisite: BA 515. (Ec 565).
566 MARKETING AND THE LAW. (3) Statutory and case law as each affects marketing decision making. Sales contract, warranties, transfer of the title, remedies under U.C.C. (Ec 566).
568 MARKETING THEORY. (3) Current marketing theory and means of augmenting it. Marketing theory as an aid to making sound business decisions. (Ec 568).
569 MARKETING MODELS. (3) New products, pricing, brand switching, advertising budget, and media selection. Math or computer background not needed. (Ec 569).
570 SEMINAR: CONTEMPORARY MARKETING ISSUES. (3) Current developments in marketing as related to social issues. Consumerism, ecology, social responsibility, ethical issues, and governmental roles. (Ec 570).
600 EXECUTIVE PRACTICES. (3) Techniques for handling complicated human relations situations. Discussion centers around behavioral readings and their application to actual case situations. Prerequisites: BA 514. (Ec 600).
601 MANAGEMENT PLANNING. (3) The planning function of management. Intermediate and long-range planning. Prerequisite: BA 514. (Ec 601).
602 MANAGEMENT INFORMATION SYSTEMS. (3) Management information systems, in particular real-time MIS. Prerequisite: Ac/Mg 340 or equivalent. (Ec 602).
603 MATERIALS MANAGEMENT. (3) The materials function in an industrial firm as an integrated activity. Inventory, purchasing, and traffic operations, with a discussion of objectives and measurements. (Ec 603).
604 PRODUCTION CONTROL. (3) Advanced production and inventory control concepts and methods. Functions served by inventories. Recommended prerequisite: BA 506 or equivalent. (Ec 604).
605 QUALITY CONTROL. (3) Technical, analytical, and managerial knowledge in a statistical context. The economics of cost, organizational impact, and the engineering function. Recommended prerequisite: BA 506 or equivalent. (Ec 605).
606 SMALL BUSINESS OPERATION. (3) Organization, location, management, finance, production, and marketing problems of small business are studied. Lecture and case method.

607 SEMINAR: APPLIED INDUSTRIAL MANAGEMENT TECHNIQUES. (3) Interdisciplinary. Solution of industrial management problems. Pre-Requisite: BA 604 or equivalent.

608 DATA BASE DESIGN. (3) Standard data base management systems. The design of actual data base. Pre-Requisite: Ac/Mg 340 or equivalent.

610 PROBLEMS OF LABOR. (3) An analysis of labor-management problems through the use of the "Incident Process."

611 ADVANCED PERSONNEL MANAGEMENT. (3) A case method approach to complex personnel problems at the management level.

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

613 PERSONNEL AND THE LAW. (3) The historical development, current status, and economic implications of laws enacted by various levels of government to protect the worker's basic needs in our society.

515 PERSONNEL SELECTION AND DEVELOPMENT. (3) Principles underlying sound practices in personnel selection, training, and development. The development of programs in these areas.

520 QUANTITATIVE DECISION-MAKING. (3) Strategies of decision-making cost of information, revision of decisions, decision trees, theory of utility, and evaluation of competing alternatives. Pre-Requisite: BA 512.


622 OPERATION RESEARCH: OPTIMIZATION. (3) Advanced use of quantitative techniques in making optimal business decisions. Pre-Requisite: BA 512.

623 SURVEY OF SAMPLING THEORY. (3) (Mt 651).


625 SURVEY RESEARCH IN BUSINESS. (3) Phases involved in survey research. Student project.

626 DESIGN OF EXPERIMENTS. (3)

627 ADVANCED BUSINESS STATISTICS. (3)

640 PSYCHOLOGY OF EXECUTIVE BEHAVIOR. (3) Examination of the assumptions underlying the behavioral school of management thought. Individual and group behavioral patterns in organizations.

*210 HUMAN RESOURCES. (3) Prerequisite: Ec 102 or 110. (IR 210, Mg 210).

222 ECONOMETRICS. (3) Economic theory, statistical methods, and the calculus to numerical economic data. Demand, cost, production, and other economic functions are analyzed. Prerequisite: Mt 112.

232 MATHEMATICS FOR ECONOMISTS. (3) Functions of variables. Maxima and minima of functions. Applications of series, differential equations, and difference equations to economic problems. Prerequisite: Mt 122.

*235 ECONOMIC HISTORY OF THE UNITED STATES. (3) The American economy from the period of colonization. The progress of population, agriculture, industry, domestic and foreign commerce, banking and finance, and transportation.

240 ECONOMIC GEOGRAPHY. (3) The economic implications of natural resources. Production of goods in relation to the development of agriculture, commerce, and industry in the United States and foreign countries.

245 URBAN ECONOMICS. (3) Interdisciplinary. Tools for problem solving. Forces leading to urbanization and differing rates of growth in urban areas. Affluence, equity, and stability are investigated. (Po 245).

250 MONEY AND BANKING. (3) (Fi 250). Prerequisite: Ec 101 or 110.

300 LABOR RELATIONS. (3) (IR 300).

310 CURRENT LABOR PROBLEMS. (3) (IR 310).

311 HISTORY OF THE LABOR MOVEMENT. (3) (IR 311).

313 LABOR LEGISLATION. (3) (IR 313).

*320 ECONOMIC THEORY AND SOCIAL ORDER. (3) Economics and Christian ethics. The Encyclicals. The businessman and a code of ethics founded on Christian principles. Prerequisite: Ec 100 or 110.


335 PUBLIC FINANCE AND TAXATION. (3) Forms of taxation; incidence of taxation; borrowing; non-tax revenues; expenditures; the effects of government finance on the economy. Prerequisite: Ec 101. (Po 335, Ft 335).

*341 COMPARATIVE ECONOMIC SYSTEMS. (3) Origin and development of economic systems. Their operations and purposes. Socialism, Fascism, Communism, and Capitalism.


348 ECONOMICS OF TRANSPORTATION. (3)

*350 CURRENT ECONOMIC PROBLEMS. (3) Current problems: labor, monetary and fiscal policy, debt management, social security legislation, and public regulation.

397 TUTORIAL COURSE. (2-3) Special reading and study for advanced students. Other courses are acceptable for a major in economics at the discretion of the Chairman or the student’s advisor.

Graduate Courses

521 MICROECONOMICS: THEORY AND APPLICATIONS. (3) The economic principles of price theory. Analysis are conducted within a framework of traditional and modern contributions in the field. (BA 521).


530 MANAGERIAL ECONOMICS. (3) Economic analysis as applied to practical business operation. Tools of economic analysis; types of economic competition and their effect on individual firms and industries. (BA 530).

532 BUSINESS FORECASTING. (3) (BA 532).

535 BUSINESS AND PUBLIC POLICY. (3) (BA 535).

538 ECONOMICS OF LABOR. (3) Determinants of the competitiveness of labor markets; study of economic determinants of employment levels. Seminar method is used. (BA 538).

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

542 ECONOMIC GROWTH AND DEVELOPMENT. (3)

544 INTERNATIONAL ECONOMIC PROBLEMS. (3)

546 LOCATION OF BUSINESS AND ECONOMIC ACTIVITY. (3) (BA 546).

548 TRANSPORTATION ECONOMICS. (3)

550 PROBLEMS IN BUSINESS FINANCE. (3) (BA 550).

552 INVESTMENT MANAGEMENT. (3) (BA 552).

556 MONETARY INSTITUTIONS AND POLICY. (3)

558 FISCAL POLICY AND PUBLIC FINANCE. (3)
**Finance Management (Mg)**

**Lower Division Course**

PRINCIPLES OF MANAGEMENT. (3) The fundamental process applicable to all forms of business organization. Essentials of the production function.

**Upper Division Courses**

MARKETING MANAGEMENT. (3) (Mk 204). Prerequisite: Mg 100.

HUMAN RESOURCES. (3) A survey of labor and labor law; examination of wage determinants and wage theory; examination of cause and remedies of unemployment. Prerequisites: Ec 100, 101. (IR 210, Ec 210).

LABOR RELATIONS. (3) (IR 300).

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**Finance (Fi)**

Staff: DR. MASTRIANNA, chairman; DR. CLICKNER, MR. KEHR, MR. MARTIN, MR. ROTHWELL, DR. SCHULTZ

**Upper Division Courses**

CREDITS MANAGEMENT. (3) (Mk 240).

BUSINESS FINANCE. (3) The various types of American enterprises with special emphasis on the corporation—its organization, management, financing, and budgeting.

QUANTITATIVE METHODS IN FINANCE. (3) Basic quantitative tools and methods. Algebraic and calculus concepts applicable to extensions into linear programming and the financial model of the firm.

ANALYSIS OF FINANCIAL STATEMENTS. (3) A study of the significance, development, and technique of financial statement analyses of business enterprises. Prerequisite: Ac 100.

INVESTMENTS. (3) Survey of the economic bases of investment practice; techniques of security analysis and portfolio management. Prerequisite: Fi 255.

FINANCIAL INSTITUTIONS. (3) Banking and monetary institutions, business finance, financial intermediaries, saving and consumer finance, and public finance and monetary policy.

STOCK MARKETS. (3) Securities, the method and manner of their exchange, the functions of security markets, and the factors promoting changes in security prices.

FINANCIAL MANAGEMENT. (3) Major problems and methods used in financing business enterprises are studied primarily from the viewpoint of business management. Prerequisite: Fi 255. (Mg 301).

INSURANCE. (3) The principles and practices of life and property insurance. Ways in which it may be employed in the interest of personal, family, and business welfare.

REAL ESTATE PRINCIPLES AND FINANCE. (3)


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**Management (Mg)**

Lower Division Course

*100 PRINCIPLES OF MANAGEMENT. (3) The fundamental process applicable to all forms of business organization. Essentials of the production function.

**Upper Division Courses**

MARKETING MANAGEMENT. (3) (Mk 204). Prerequisite: Mg 100.

HUMAN RESOURCES. (3) A survey of labor and labor law; examination of wage determinants and wage theory; examination of cause and remedies of unemployment. Prerequisites: Ec 100, 101. (IR 210, Ec 210).

LABOR RELATIONS. (3) (IR 300).
Management

**301 FINANCIAL MANAGEMENT.** (3) Major problems and methods used in financing business enterprise from the viewpoint of business management. Prerequisites: Fi 255, Mg 100.

**302 PRODUCTION MANAGEMENT.** (3) Decision-making related to resource allocation to provide students with analytical tools to optimize the results of production allocation. Prerequisite: Mg 100.

**303 OFFICE MANAGEMENT.** (3) A study of the principles of management and their application to office management. Lecture and case discussion. Prerequisite: Mg 100.

**310 HUMAN RELATIONS AND MOTIVATION.** (3) Current concepts of human behavior as applied to the business organization. The disciplines of psychology and sociology are utilized. Prerequisite: Mg 100.

*311 RESEARCH IN MANAGEMENT.** (3) Application of research methods to selected managerial problems. Prerequisite: Mg 100.

**312 CONTEMPORARY MANAGEMENT PROBLEMS.** (3) Problems vary. Examples: managerial authority, management and society, patterns of management, philosophy of management. Prerequisite: Mg 100.

**313 MANAGERIAL METHODS ANALYSIS.** (3) Managerial techniques for optimum effectiveness: process charting, work and time measurement, performance rating, work sampling, and paperwork procedures. Prerequisite: Mg 100.

**314 MANAGERIAL POLICY FORMULATION.** (3) Cases designed to reinforce knowledge of the mechanics of the management process. Prerequisite: Mg 100.

**315 ORGANIZATIONAL THEORY OF MANAGEMENT.** (3) Theory of organizational structures as applied to business firm. Prerequisite: Mg 100.

**320 PERSONNEL ADMINISTRATION.** (3) Principles and practices in the administration of human relations in the industrial and commercial world. (IR 320).

**330 INTRODUCTION TO QUANTITATIVE METHODS.** (3) (BA 502).

**331 APPLIED QUANTITATIVE METHODS FOR BUSINESS.** (3) Application of higher mathematics to recurring business problems. Basic operations research techniques are covered. Prerequisites: Mt 112, 122.


**341 SYSTEMS ANALYSIS AND DESIGN.** (3) EDP systems analysis and design. Work simplification for improved data processing methods and procedures. Prerequisite: Mg 340 or equivalent. (Ac 341).

**342 MANAGERIAL ASPECTS OF DATA PROCESSING.** (3) Data processing systems and management organization and control. Planning and evaluating the feasibility of EDP systems. Prerequisite: Mg 340 or its equivalent. (Ac 342).

Industrial Relations

**343 FORTRAN PROGRAMMING.** (3) FORTRAN II and IV programming languages for scientific problems.

**344 COBOL PROGRAMMING.** (3) COBOL programming language for business problems.

**345 DATA PROCESSING INFORMATION SYSTEMS.** (3) Data processing systems. The design of actual information processing systems. Prerequisite: Mg 341, 344.

**346 COMPUTER OPERATIONS MANAGEMENT.** (3) Practical problems confronted by the computer operations manager. Organization control and scheduling functions. Environmental considerations. Prerequisite: Mg 340 or equivalent.

**347 SURVEY OF DATA PROCESSING APPLICATIONS.** (3) Data processing installations. Hardware and software. Current data processing problems.

**395 CASES AND PROBLEMS IN MANAGEMENT.** (3) Case studies of selected management problems with emphasis on the application of statistical techniques for analysis and solution.

**397 TUTORIAL COURSE.** (3) Research in scholarly journals on a management topic of current import. Open to students only with consent of instructor.

Approved Electives: Upon consultation with, and approval of, the Department.

**196 197**
Marketing

330 INDUSTRIAL PSYCHOLOGY. (3) (Ps 251).
395 CASES AND PROBLEMS IN PERSONNEL RELATIONS. (3) Case studies in selected personnel problems with emphasis on the application of relevant behavioral science research and concepts.
397 TUTORIAL COURSE. (2-3) Contents to be determined according to the needs of the student.

Approved Electives: Upon consultation with, and approval of, the Department.

Marketing (Mk)

Staff: DR. CARUSONE, chairman; MR. ADLER, MR. LEWIS, DR. J. KLINGMAN, MR. KUMPF, MR. PARKER, DR. TREBBI, DR. VAN KIRK, DR. WEBB

Assisted by: MR. CARUSO, MR. DRESKIN, MR. M. GOODMAN, MR. LOHAUS, MR. McMULLIN, MR. B. MILLER, MS. RUWE, MR. H. THOMAS

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

Lower Division Course

*100 PRINCIPLES OF MARKETING. (3) Marketing concepts, functions, institutions, and policies. Marketing’s role in society. Prerequisite for upper division courses unless waived by department chairman.

Upper Division Courses

201 MARKETING POLICY. (3) Develops problem-solving skills by applying marketing principles to case studies. Prerequisite for other upper division courses.
202 MARKETING RESEARCH. (3) Marketing research, methodologies, and managerial utilization of research findings. Prerequisite: BA 270.
204 MARKETING MANAGEMENT. (3) Marketing planning. The co-ordination of all aspects of marketing. Product line development. Prerequisite: Nine hours of upper division courses in Marketing. (Mg 204).
212 PURCHASING. (3) Principles and practices of purchasing. Techniques in making decisions on quality and quantity at the right prices. Price policies, sources of supplies, and standards of performance.
219 BROADCAST STATION SALES. (3) (CA 219).
220 INTERNATIONAL MARKETING. (3) Conditions peculiar to international distribution of goods and services and its effects on the national welfare.
230 RETAILING MANAGEMENT. (3) Fundamental principles and policy considerations for the successful management of modern-day retailing organizations. Case study.

Hospital and Health Administration (HA)

Staff: MR. ARLINGHAUS, director; DR. AUSTIN, DR. TUCKER

Assisted by: MR. KLEKAMP, MR. MEEKS, MRS. STRAUSS, MR. WILZ, MR. ZUCKERMAN

630 HOSPITAL ORGANIZATION THEORY. (3) Hospital departments are studied—their purposes, organization, relationships, and current trends. An overview of these functions as they join to provide good patient care.
631 HOSPITAL SYSTEMS MANAGEMENT. (3) The many systems within the hospital. Electronic data processing, planning and control, distribution systems, information systems, systems research.
Hospital Administration


634 HOSPITAL LEGAL ASPECTS. (3) Various aspects of law as it relates to hospitals. Liability, contracts, torts, medical records, the law suit, consent, and other legal aspects.


636 HOSPITAL PERSONNEL ADMINISTRATION. (3) Practical personnel administration policies, procedures, and techniques as they affect hospital administration.

637 SEMINAR: HEALTH CARE ADMINISTRATION. (3) Case and incident methods are used to examine the changing environment in hospital and health care delivery. Hospital administration problems.


640 PSYCHOLOGY OF EXECUTIVE BEHAVIOR. (3) Techniques available for handling complicated human relations situations. Psychological (behavioral) and sociological readings and their application to actual situations.

641 RESEARCH IN HOSPITAL ADMINISTRATION. (3) Understanding and skills necessary to the intelligent use of research in hospital administration.

648 MASTER’S THESIS. (3)

649 ADMINISTRATIVE RESIDENCY (Twelve months). (9) Research techniques and procedures. Experimental design and statistical inference. Research project included.

The Graduate School

Administrative Officers

RAYMOND F. McCoy, Ed.D.
Dean

THOMAS H. HANNA, Ed.D.
Associate Dean

JAMES P. GAFFNEY, Ed.D.
Assistant Dean

THOMAS J. HAILSTONES, Ph.D.
Director, Master of Business Administration Program; Dean, College of Business Administration

JOHN C. ROTHWELL, M.B.A.
Assistant to the Dean

The Graduate Council

RAYMOND F. McCoy, Ed.D.
(Chairman) Dean, Graduate School

VYTAUTAS J. BIELIAUSKAS, Ph.D.
Chairman, Department of Psychology

THOMAS J. HAILSTONES, Ph.D.
Director, Master of Business Administration Program; Dean, College of Business Administration

THOMAS H. HANNA, Ed.D.
Associate Dean, Graduate School

ROBERT G. JOHNSON, Ph.D.
Chairman, Department of Chemistry

WILLIAM J. LARKIN III, Ph.D.
Chairman, Department of Mathematics

FRANK MASTRIANNA, Ph.D.
Chairman, Department of Economics

REV. THOMAS G. SAVAGE, S.J., M.A. (Oxon.)
Chairman, Department of English

REV. ROBERT W. SCHMIDT, S.J., Ph.D.
Chairman, Department of Philosophy

ROMAN J. SCHWEIKERT, Ed.D.
Chairman, Department of Education

PAUL L. SIMON, Ph.D.
Chairman, Department of History

JOHN B. VIGLE, M.S.I.S.
Director of the University Library
GENERAL POLICIES

The policies listed below affect all graduate students. Some degree programs do have special policies which are specified in individual program descriptions.

Admission and Probation Committee

The Committee consists of the Chairman of the Department which the student seeks to enter, the Dean of the Graduate School, and the Associate Dean.

Scope and General Requirements

The Graduate School opened in 1946 under the direction of its present Dean. Its first graduate degrees were awarded in 1947. In 1952 the Master of Business Administration program was added. These degree programs are offered: the Master of Arts in economics, English, history-political science, psychology, and, in Summers only, philosophy; the Master of Science in chemistry, mathematics, and corrections; the Master of Education; the Master of Business Administration; and the Master of Hospital and Health Administration. The Graduate School has always been coeducational.

Classification of Students

Graduate students who have been admitted to Xavier University are designated as degree, provisional, or special students.

Degree students are those students officially accepted into candidacy for a graduate degree program. Students not in degree status are technically classified as special students until candidacy has been approved.

Provisional students are students accepted with a deficiency of an academic or administrative nature which must be removed before they may apply for candidacy as a degree student.

Special students are those pursuing graduate courses without intent of completing a graduate degree. They may pursue these courses with profit but without regard for degree requirements.

Academic Calendar

The Graduate School Academic Calendar is integrated with the total University Calendar, which may be found at the front of this catalogue.

Admission

Application for admission to graduate studies is made in form. Application forms can be obtained upon request. Applications should be followed promptly by a transcript of the applicant's credits.

Students electing graduate work leading to a master's degree must present evidence of having a bachelor's degree from an accredited institution, and also present official transcripts from each college in which credit was obtained. Others will be registered conditionally.

An applicant with a bachelor's degree from a non-accredited institution is not admitted to full graduate standing until he has successfully completed at least six hours of graduate work with the required grades, and has been accepted by the department which controls his program. Certain colleges and/or departments within the University do not accept students from regionally non-accredited institutions.

Since graduate work is work done under direction, the chairman of the department of the student's major subject must decide on the student's preparation for graduate study in that department; and the chairman or one appointed by him will be the student's advisor throughout. The general prerequisites for graduate work in any department must be the equivalent of an undergraduate major at Xavier University.

Notification of acceptance or rejection is sent to each applicant as soon as possible after the receipt of his application. The Dean of the Graduate School will deny admission if the applicant's record of scholarship is not sufficiently distinguished, or if his undergraduate program is judged inadequate for advanced academic or professional study.

Seniors of satisfactory academic standing who are within nine hours of completing their undergraduate requirements for the bachelor's degree may, in their last semester, register for graduate work, providing that these courses are in excess of the requirements for the bachelor's degree.

Official acceptance for graduate study is good for a two-year period from the time of acceptance. If a student does not honor his acceptance within this period of time, his application and documents are destroyed unless he requests that the documents be returned or sent to another university.

Any falsification of information on the application, transcripts, or recommendations (where required) will be sufficient cause for disqualification for admission or dismissal if admitted.

Students transferring from another university must be in good standing at that university or they will not be admitted to Xavier. Evidence of good standing must be produced upon request.

Admission—Foreign Students

International students must apply on special application forms available through the Graduate Office and must comply with all requirements for admission before formal acceptance will be granted and an I-20 form issued.

Because of the extensive processing required of applicants from foreign countries, no application for an academic school year beginning in September will be accepted from an international student not within the United States after May 15 for the ensuing academic school year.

International students within the United States attending other accredited institutions of higher learning must apply and submit all documents and other requirements prior to June 15 if they wish acceptance for the academic school year beginning in September. Such students may be accepted for a subsequent spring semester or summer session if they apply after June 15.

Xavier does not accept students in the U.S. on visitor's visas, or students who enter the U.S. on I-20 forms issued by another university unless the student attends that institution for at least one quarter or semester. Female students must reside in a campus dormitory unless sponsored by a local American family.

Academic Contract

Completion of the registration process on the part of the applicant or student and the University constitutes the formation of an Academic Contract binding on both parties. The terms of such contract include the express provisions, regulations, and academic and financial requirements contained in the University catalogue in effect at the time of registration and all the provisions, regulations, and requirements that can reasonably be implied from such express catalogue provisions. However, the University reserves the right to modify tuition and the amount or number of fees at the beginning of any academic years subsequent to the student's initial registration. Continuation as a student in good standing is a condition of compliance with the terms of the Academic Contract.
Full-time Course Load

A full-time graduate course load per semester consists of twelve semester hours minimum. This may be reduced in programs requiring extensive laboratory work upon agreement between the department chairman concerned and the Graduate Dean. A minimum of five semester hours is considered full-time during a summer session for all programs.

Fully employed students normally may not take more than seven semester hours of coursework in the Fall and Spring semesters or four semester hours during regular summer sessions in which they are fully employed.

For students not fully employed six semester hours each summer session is ordinarily the maximum student load permitted though a student who wishes may take seven hours in a summer session without special permission. Permission to take more than seven hours must be obtained from one of the Deans. Ordinarily it will not be granted.

Intersession Courses

A maximum of six semester hours of intersession credit hours may be used towards a graduate degree.

Miller Analogies Test

All applicants for admission to the Graduate School (other than those seeking the M.B.A. or M.H.A.) will be required to take the Miller Analogies Test at Xavier University, or to bring with them an official report of their scores. Scores will aid the faculty in the guidance of the student. M.B.A. and M.H.A. applicants will be required to take the Admission Test for Graduate Study in Business, or to have official test scores forwarded to the Graduate School.

Candidacy

Candidacy shall begin when, after the student's completion of six hours of graduate work, his application shall have been passed by the Graduate Council. Every student must make such application after completing six hours of work at Xavier. Those thought unfit will be advised to discontinue their course.

No more than five years may elapse between candidacy and completion of work for the degree.

Candidates for the master's degree who fail to complete all requirements within five years after admission to candidacy must be readmitted to candidacy by the Dean of the Graduate School before they can proceed. All work must be completed within seven years preceding the date upon which the degree is conferred.

A student who attends only summer sessions may be granted a graduate degree provided he is engaged in work related to his major subject.

Requirements

A minimum of thirty semester hours of graduate work is demanded for any Master's degree. However, more than 30 graduate hours may be required in some master's programs—e.g., Psychology, Hospital and Health Administration, and Montessori Education.

Specific requirements of the Masters' programs are presented later in this section. Though advisory services are provided to assist all students, the student alone is responsible for following the procedures and completing the steps required in his program. Requirements of the Graduate School, both procedural and substantive, may be waived only by written request of the student and/or department chairman concerned and must have the written approval of the Dean of the Graduate School.

Distribution of the course requirements must be approved by the chairman of the department of the major subject. At least one-half of the courses must be in that department. Candidates, however, for the Master of Arts and Master of Science degrees are advised to take all their work in their major department.

Character of the courses required is subject to the decision of the advisor. At least one-half of the hours of credit in the major subject and one-half the total number of hours toward the degree must be obtained in courses numbered 500 to 699, distinctly graduate courses.

Course Numbers

This is the system of numbering courses:

- 100 to 199 Lower division courses
- 200 to 499 Upper division courses, open to graduate students for graduate credit except where specified as for undergraduate credit only
- 500 to 699 Courses for graduate credit only, open to graduate students only

Examinations

Candidates for graduate degrees shall be required to pass a final comprehensive examination, oral or written. This examination is oral in all programs requiring a thesis. It shall be the policy of the Graduate School to give these examinations three weeks prior to the end of the final semester. The chairman of the major department or one appointed by him shall be chairman of the examining committee and be responsible for giving the examination. A student must pass other examinations required by his major department.

The matter for the examination shall be based primarily on the student's courses, and if he is a candidate for the Master of Arts or Master of Science degree, on his thesis if a thesis is required in his program. It is understood, however, that a candidate's general knowledge of his field must be found satisfactory by his examiners.

Thesis

The thesis required for the Master of Arts or Master of Science degree should embody the results of the applicant's research in some problem of his major subject, and must at each stage be under the direction of the chairman of the department or of one appointed by him.

Before beginning work on the thesis, the student should secure from the Graduate Office the form, Approval of Thesis Project, and also the Instruction, Form and Mechanics for Writing Theses. The student must submit three typed copies of his thesis after it has been formally approved.

Application for Degree

All students planning to complete requirements for graduate degrees must complete application forms for the Graduate Office within the first month of their final semester of work—summers, during the first two weeks. When the degree is not obtained at the time specified on the application, the student must reapply for the new date.

It is recommended that an appointment be made with the student's department chairman at the time the student registers for his final semester of work to make certain all degree requirements will have been met by the end of the semester.

*See page 224 for M.B.A. exceptions.
The Graduate School will automatically eliminate from the graduation list the name of any student whose final grade label contains either a grade of I (incomplete) or a missing grade unless there is evidence in the student's file that the course is not a requirement for the degree.

Non-Academic Requirements for the Degree
Candidates for a graduate degree must have discharged all financial obligations to the University.

Graduate Grading System
The following symbols are used in the evaluation of course work: A—indicative not only of high achievement, but also of an unusual degree of intellectual ability and initiative; B—above average attainment; C—work of minimum or average attainment; D—inferior, no graduate credit; F—failure. To obtain credit graduate students must do work of B quality in courses numbered 200 to 499, and of C quality in courses numbered 500 or higher.

Student records and transcripts include all courses attempted including those in which a grade of W and I are awarded.

Repetition of Courses
Courses completed in a student's undergraduate program may not be repeated for graduate credit.

Probation
One unsatisfactory grade (below C in courses in the 500-699-series, below B in courses in the 200-499-series) places a graduate student on probation; two such grades makes him ineligible to reregister in a degree program.

Clearance of Incompletes
Grades of I (incomplete) must be cleared by a student within thirty days after the last day of the semester, unless the professor concerned specifies another date. After thirty days, the grade becomes a permanent I.

Class Attendance
Reasonable attendance at all class meetings of courses for which a student has registered, except tutorial and special study courses, is expected of students as a condition for the granting of academic credit. Lack of reasonable attendance as determined by the Graduate Council, Graduate Dean, and faculty members concerned is reason for denial of credit for a course and possible course failure.

Dismissal
The Graduate School reserves the right to dismiss from any graduate degree program any student whose quality of classwork is beneath the standard set by the Graduate Council of the University.

Such dismissal is prospective in nature and does not affect any terms of any past Academic Contract between the dismissed student and the University.

Advanced Standing from Other Universities
Six semester hours (or the equivalent) of graduate work completed at another accredited graduate school prior to initial admission to Xavier University may be transferred as Advanced Standing toward the M.A., M.S., M.B.A., M.H.A., or M.Ed. degree. The permission of the department chairman concerned and the approval of the Graduate Dean, assuming the credits are applicable to the student's degree objective, is necessary. Only grades of A or B are acceptable for Advanced Standing, and the course work must have been completed on the university's main campus. Extension work and work done by correspondence are not acceptable for Advanced Standing.

As a matter of policy, the Graduate School does not enter coursework completed at other universities on its permanent records unless the coursework applies toward a Xavier University advanced degree or pertains to certification recommendation by the University.

Graduate Credit Transferable
Ordinarily no graduate credit completed at another university is transferable toward a graduate degree at Xavier once the student has begun his graduate program at Xavier.

Under certain extraordinary circumstances, advanced written approval for transfer of a course may be obtained from one of the Deans under such circumstances as:
1. When a student is permanently transferred to another city.
2. When taking an institute not available at Xavier.
3. When directed by one of the Deans for a specific purpose to take a course not available at Xavier.

Health Service
Full-time graduate students may choose to avail themselves of the University's Student Health Service at the student fee of $15.00 per semester (fall and spring semesters only).

A student accident, sickness, and hospital insurance plan is available to full-time graduate students at a reasonable rate.

Housing Arrangements
Graduate students usually make their own arrangements for obtaining housing accommodations. Dormitory accommodations are available to a limited number of male and female graduate students each semester, and generally available to all single graduate students, male and female, during the summer sessions. Assistance in obtaining off-campus accommodations may be obtained by writing the Director of Student Housing, Office of the Dean of Students.

Campus Parking
A limited amount of parking is available to graduate students on campus. The Graduate School cannot guarantee a parking place as a condition of enrollment. Parking stickers are required on cars parked on campus.

Facilities for Study and Research
Computer Center: The University Computer Center operates an I.B.M. 360/30 type computer and Time Sharing services which are available to all faculty and students of the University for either classroom work or research. Members of the Computer Center also provide consultation and advisory assistance to those wishing to use these services in their work.

Library: The University Library has a rapidly growing collection of more than 200,000 volumes which is selected to serve as well as supplement the education and
research programs of the University. To bring the major areas of knowledge in close proximity, the divisional library plan has been established. The divisions are Humanities, Social Science, and Science and Business. Each area is staffed by librarians who are specialists in their fields. Within these divisions the volumes are arranged by subject on open shelves so that the intellectually curious student may browse among them, unhampered by intervening walls and artificial barriers.

Numerous departments of the University maintain departmental collections within their own buildings. Graduate students wishing to keep books in the library may obtain a locker on an assigned basis.

Center for Human Development: The newly created Center for Human Development is engaged in research studies in the areas of guidance, reading improvement, and Montessori education as well as other areas within the Departments of Psychology and of Education.

Veterans' Education

The Graduate School has been approved by the Veterans' Administration for educational training under all existing public laws. Requests for information should be addressed to The Director, Veterans' Education.

Foreign Student Advisor

The Graduate School's Foreign Student Advisor will assist international students with such problems as adjustment to University life, requirements of the Immigration Service, and social matters. The department chairman handles the student's academic counseling.

American Association of University Women

Xavier University is a member of the American Association of University Women which is open to all women who hold baccalaureate or higher degrees. Information about membership is available from the Graduate Office.

Scholarships: Graduate School

Xavier University annually offers scholarships in all departments in which graduate programs are offered. These departments are business administration, chemistry, economics, education, English, history-political science, mathematics, and psychology. A number of scholarships may be awarded in each department by the Graduate Scholarship Committee. Scholarships will be awarded only to those who have demonstrated real academic excellence in their undergraduate work. Scholarships cover tuition only and are valued at $1,650 each.

Awards will be subject to the following requirements and procedures:
1. Scholarships will be awarded only to students prepared to do full-time graduate study (usually 12 semester hours minimum per regular semester, 6 hours during a summer session, or as determined by the department chairman in certain departments). Students may not work at any job on a full-time basis while on scholarship status.
2. Only students who meet fully departmental requirements as outlined in the University Catalogue should apply.
3. Applications should be made by letter addressed to the Dean of the Graduate School, Xavier University.
4. Transcripts of all previous college work should be forwarded to the Dean of the Graduate School (one from each college attended).
5. At least two letters from educators who can evaluate the academic qualifications of the applicant should be forwarded directly to the Dean of the Graduate School by the writers.
6. Applications, letters, and transcripts for scholarships must be in the Graduate Office not later than April 1 and applicants will be notified of the decision of the Graduate Scholarship Committee during the latter part of April of the academic year prior to the award.

Assistantships

The Walter A. and George McDonald Fund, established in honor of Mr. and Mrs. Andrew J. McDonald, provides income from a gift of $30,000 for a graduate assistant in the Department of Chemistry.

Graduate assistantships are awarded annually in the Departments of Chemistry, History, Mathematics, and Psychology. Assistants are expected to devote about half-time to graduate studies and about half-time to service in the department.

Letters of application should be addressed to the chairman of the department concerned. A complete transcript of the applicant's undergraduate record and letters of recommendation from the chairman of the applicant's undergraduate department and one other professor should be sent directly to the chairman of the department at Xavier University.

All letters of application, recommendation, and transcripts should be in the hands of the chairman concerned not later than April 1, and successful applicants will be notified ordinarily in April by the chairman concerned.

Tuition and Fees*

<table>
<thead>
<tr>
<th>Fee</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>Matriculation (payable once)</td>
<td>$10.00</td>
</tr>
<tr>
<td>Tuition: Education, Arts, Science courses (per semester hour)</td>
<td>55.00</td>
</tr>
<tr>
<td>Tuition: Business Administration, Economics, Hospital and Health Administration courses (per semester hour)</td>
<td>60.00</td>
</tr>
<tr>
<td>Tuition for Teachers (per semester hour)</td>
<td>48.00†</td>
</tr>
<tr>
<td>Miller Analogies Test (Taken in group sessions)</td>
<td>5.00</td>
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<tr>
<td>Admission Test for Graduate Study in Business</td>
<td>12.00</td>
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<tr>
<td>Graduation fee</td>
<td>30.00</td>
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<tr>
<td>Binding of thesis fee (Library copy)</td>
<td>4.50</td>
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<tr>
<td>Laboratory science fee (per course per semester for biology, chemistry, physics, Experimental Psychology, and Physiological Psychology)</td>
<td>20.00</td>
</tr>
<tr>
<td>Laboratory science deposit (per course per semester—partially refundable)</td>
<td>10.00</td>
</tr>
<tr>
<td>Laboratory materials deposit for physical science thesis (payable once—partially refundable)</td>
<td>75.00</td>
</tr>
</tbody>
</table>

†Full-time teachers and school personnel.

Students awarded their degree as of August or January must pay all outstanding financial obligations including the Graduation Fee before a transcript showing the degree will be released. Students receiving their degree as of June must pay all tuition and fees including the Graduation Fee by May 1. The Graduation Fee must be paid by every student who graduates, whether in person or in absentia (with permission).

*Expenses listed are for the 1974-1975 academic year. Changes are made in these rates from time-to-time.
Contingent Fees*

Duplicate Transcript ........................................... $1.00
Special Examination .................................. 15.00

Financial arrangements should be settled on the day of registration. Attendance at classes will not be permitted until financial arrangements have been made with the Bursar. A time payment plan is available. Consult the Bursar.

Service Fee

A 1% per month service fee will be charged to all accounts with an unpaid balance over 30 days old. The service fee is computed on the balance outstanding on the first day of the preceding month, less any payments and credits received during that month. New charges incurred during the month are not subject to a service fee for that month. To avoid any additional service fee, the entire amount due may be paid at any time. No transcripts or other services will be issued until the account is cleared.

Withdrawal

Students who have officially registered for a class but decide to discontinue attendance, or students who wish to cancel registration before they have entered class must withdraw officially by completing a withdrawal slip in the Graduate School office or by informing the office in writing of their intent.

The same procedure applies when a student decides to drop one class to enter another.

The date on which the withdrawal slip or other written notice is received is used by the Graduate School to determine possible tuition charges or refunds. No refunds may be granted without official withdrawal through the Graduate School office. Cessing to attend class or informing a professor of the intent to withdraw does not constitute official withdrawal.

If a student ceases to attend classes without officially withdrawing, the instructor may award a grade of I (Incomplete). Official withdrawal is indicated by a grade of W.

Refunds

The following is the official interpretation of University refund policy as applied to students of the Graduate School:

1. A refund of tuition (fees are not refundable) may be claimed in the case of withdrawal or dismissal in the first weeks of a semester according to the schedule detailed below.
2. Computation of refunds will be based upon the official date of withdrawal, not the last class attended. A claim for a tuition refund will not be honored by the University after one year has lapsed dating from 35 days after the beginning of each course in question.
3. The official date of withdrawal is the date upon which the student notifies the Graduate Office of his withdrawal in writing.
4. Withdrawal of a student who has been permitted to make only a partial payment at registration is handled precisely as it would have been had he completed payment; thus he may owe a balance even though he has withdrawn.

*Expenses listed are for the 1974-1975 academic year. Changes are made in these rates from time-to-time.

5. Students who do not withdraw officially through the Graduate School office when they stop attending classes are liable for the tuition and fee charges for the semester or session. Those who register, decide not to start class, but do not withdraw officially through the Graduate School office are also liable for the total tuition and fee charges for the semester or session.
6. A student is subject to the schedule of refunds even though he does not complete the course or courses for which he is registered or even though he does not attend any of the classes in those courses. Passing or failing the course does not alter the financial obligation.

Schedule of Refunds, Academic Year

<table>
<thead>
<tr>
<th>Time after First Class Meeting</th>
<th>Refund</th>
</tr>
</thead>
<tbody>
<tr>
<td>Before the First Class Meeting</td>
<td>100%</td>
</tr>
<tr>
<td>First Day of Class and 6 Days Thereafter</td>
<td>90%</td>
</tr>
<tr>
<td>7-13 Days After First Class Meeting</td>
<td>70%</td>
</tr>
<tr>
<td>14-20 Days After First Class Meeting</td>
<td>50%</td>
</tr>
<tr>
<td>21-27 Days After First Class Meeting</td>
<td>30%</td>
</tr>
<tr>
<td>28-34 Days After First Class Meeting</td>
<td>10%</td>
</tr>
<tr>
<td>After 34 Days</td>
<td>None</td>
</tr>
</tbody>
</table>

Refunds, Summer Sessions and Intersessions

For tuition refund schedules for summer sessions and intersessions, consult the University Summer Bulletin.

Payment of Parking Tickets

Parking tickets for violations of "No Parking" zones, reserved lots, or for disregarding the instructions of a parking attendant or security guard, will be issued. The first parking ticket for parking without a valid parking permit will be issued with a fine of $10.00 attached, subsequent violations with a $5.00 fine attached.

All fines must be paid at the Bursar's Office. Parking ticket fines not paid within five days after their issuance, or not appealed within five days after their issuance, will be charged to the student's account maintained in the Bursar's Office. University policies with respect to the satisfaction of all payments due the University will apply thereafter.

THE MASTER OF ARTS

The final goal of the M.A. and the M.S. programs is that the student may come to possess a specialized knowledge of his chosen field and an intelligent appreciation of its place in the wide panorama of human thought.

The degree of M.A. or M.S. is awarded to the candidate who has demonstrated a capacity for further study or teaching by satisfactorily completing a program of graduate work designed to give him these characteristics:

1. An understanding of the relations of his subject to allied subjects and to the synthesis of Christian culture, which is the basis of Western civilization.
2. A comprehensive knowledge of the broad field of learning in which the degree is conferred.
3. A specialized knowledge of a portion of that field.
4. Proven ability to do research in the special field of study.
General Requirements
In accordance with the above objectives the general requirements for the degrees are respectively:

1. Completion of such undergraduate prerequisites as will give assurance of the candidate's general educational background. Satisfactory completion of the Miller Analogies Test.
2. A reading knowledge of a foreign language or approved substitute. This requirement does not apply to all degrees. See specific degree program for information.
3. Completion of a program consisting of at least twenty-four hours of integrated classroom study within the student's chosen field, an acceptable thesis of a research character for which six graduate credit hours are registered for and awarded; or at least thirty hours of integrated classroom study, a substantial research paper specifically accepted by the department to satisfy this requirement.
4. Completion of a final oral comprehensive examination, if a thesis is written, or a written examination if a thesis is not included in the program.

Specific Departmental Requirements
Within the general requirements, departments administering programs may add specific regulations. Candidates for degrees are urged to maintain close relationship with the chairmen of their particular departments.

THE MASTER OF ARTS—ECONOMICS
Normally the applicant will be expected to have had the following: six hours in Principles of Economics, three hours in Money and Banking or in monetary and fiscal theory, three hours in an intermediate theory course, and three hours of electives from the fields of labor, econometrics, and theoretical analysis, a total of fifteen hours of undergraduate prerequisites. If the applicant has not had these undergraduate courses, and yet gives evidence that he is qualified to pursue graduate study in economics, the Department of Economics at its discretion may allow the applicant to take these or equivalent courses at Xavier University or at some other accredited institution. In exceptional instances some of these prerequisites may be waived.

All applicants are required to take the Graduate Record Examination before being admitted to graduate studies in the Department of Economics. If the applicant has taken this examination previous to his application to the Graduate School of Xavier University, he must provide the Department of Economics with an official report of his score.

Thirty semester hours of graduate work are required of the applicant. Twenty-four of these hours are devoted to fulfilling course requirements, and the remaining six hours to thesis requirements. Students may transfer up to six graduate credits from other institutions with approval of the department. With approval, students may take one or two upper-division undergraduate courses for graduate credit, provided they earn at least a grade of B and perform whatever added course requirements are assigned by the instructor. Certain graduate courses from other disciplines may be taken with the approval of the department.

Courses in economics and in other disciplines provide the following concentrations: Financial Economics, Industrial Economics, Quantitative Methods, Labor Economics, Public Economics, and Regional-International Economics.

THE MASTER OF ARTS—ENGLISH
The candidate for the Master of Arts degree in English must give substantial proof of his proficiency in literary criticism and textual analysis. He must show an ability to do research and a thorough factual knowledge of the history of English and American literature. The Department of English expects that all candidates for the Master of Arts degree in English will spend considerable time on individual study, literary and textual analysis, and research in addition to the actual course work. The knowledge of an undergraduate English major is presumed to be had by every candidate for the Master of Arts in English. In addition, the ability to express oneself with mechanical accuracy and precision of idiom is demanded.

All candidates are urged to include a course in the history of the English language. Courses selected in the 200 to 499 level ought to complement their undergraduate work. Courses and seminars selected on the 500 to 699 level should build upon the undergraduate work that they have completed in English. Since backgrounds on the undergraduate level may vary, each applicant should work out a program with the Chairman of the Department before beginning his graduate work.

Students who envision the Master of Arts in English as a terminal degree are advised to elect a program consisting of thirty credit hours of course work and the writing of an extended research paper done in conjunction with a seminar. This research paper, properly bound, is to be filed with the Chairman, Department of English, no later than one month from the conclusion of the course during which the paper was written. At least half of the thirty hours must be in courses numbered 500 or higher, and at least two of the courses must be seminars.

Those preparing for further studies in English, especially toward the doctorate, are advised to elect a program consisting of twenty-four hours of course work and the writing of a thesis. At least one-half of the hours must be in courses numbered 500 or higher, and at least two of the courses must be seminars. The subject of the thesis must be approved by the Department's committee for the graduate program. The thesis, for which six hours of credit are awarded, must be written under the guidance of a member of the faculty and must demonstrate the student's ability to do scholarly research of high quality. This thesis must be read and approved by the director of the thesis and two other readers from the faculty.

Students must pass an examination in a modern foreign language before completing six hours of graduate English. He may, if he so chooses, substitute Latin. Candidates must score satisfactorily on the Miller Analogies Test, which is to be taken during the first semester of graduate work.

Applicants for the M.A. in English must also pass a written comprehensive examination in English and American literature, which ordinarily should not be taken until all class work has been completed. This examination, administered in the spring and in mid-summer, is taken in two sessions.

Admission
1. A 3.0 average in all English courses on the undergraduate level.
2. A minimum of thirty-six undergraduate credit hours in English which should include the survey of English literature from the Old English Period to the Twentieth Century; the survey of American Literature; at least one course in Shakespeare. Courses in aesthetics and literary criticism and in history of the English language are highly recommended. In case the applicant does not meet these requirements, he may be admitted as a special student until he makes up the necessary hours.
3. Recommendations from members of the Department of English in the college or university where he did his undergraduate work. One of these recommendations should come from the chairman of the Department of English where the undergraduate work was completed.
Any student applying for admission to the program leading to the Master of Arts in English must complete the following procedures before registration:

1. Submit to the Graduate School the completed application form for admission to the Graduate School.
2. Submit to the Chairman, Department of English, the completed application for admission to the graduate program in English.
3. Arrange for transcript of previous college work to be sent to the Graduate School.
4. Submit to the Graduate School and to the Chairman, Department of English, his score on the Graduate Record Examination in Literature.
5. Arrange with the Chairman, Department of English, for a personal interview.

Part-time students may be admitted for their first semester of work prior to their personal interview. All admission procedures, however, must have been completed before the second registration.

THE MASTER OF ARTS—HISTORY

The Master's program in history at Xavier is designed to meet the needs of two types of students. First, the research M.A., with its emphasis on historiography and technique, gives the student who plans to work toward the Ph.D. the background that he should have. The second type, the non-research M.A., is planned for the secondary or the elementary school teacher who desires to earn the Master of Arts degree. It emphasizes content courses and factual material. The non-research program will ordinarily, therefore, not prevent the student from further studies, should he decide at a later date to do so.

Requirements:
1. All students must complete half their work in courses numbered 500 to 699 including Hs 501: Historical Methodology.
2. Those who elect the degree with thesis must present twenty-four hours of class work. Six additional hours will be granted for the thesis when it is accepted.
3. Those who elect the degree without thesis must complete two to five courses in one of the following areas of concentration: The United States, Europe, Ancient (Classical), Latin America, or Asia. They must also write an extended research paper, on a subject having Departmental approval, in the area of concentration, and pass an extended written examination in that area.
4. Further instructions are available from the department chairman.

THE MASTER OF ARTS—PHILOSOPHY

The Master’s program aims at a high degree of the habit of philosophy, a penetrating grasp of systematic philosophy, an ability to formulate and analyze a problem and find a solution, a knowledge of the major philosophical positions propounded in the West, and the capacity to evaluate critically the thought of other philosophers. Xavier offers this degree in a consortium arrangement with The Atheneum of Ohio’s accredited M.A. program in philosophy. Xavier graduate offerings are limited to summer sessions. During the academic year, certain suitable undergraduate courses may be taken and applied to the graduate program; or course offerings may be elected at The Atheneum of Ohio (with previous program approval by Xavier's Chairman, Department of Philosophy) and transferred to the Xavier degree program.

The minimum requirements for the degree of Master of Arts in philosophy are:
1. Completion of twenty-four hours of work at the 500-699 level; or a minimum of twelve hours of such courses and twelve hours at the 300-499 level (or, by exception, at the 200-299 level). These must include surveys in three periods of the history of philosophy (Pl 230, 260, 270) if these have not been previously had.
2. A reading knowledge of French or German with the possibility of an approved substitute if thesis work demands it.
4. A comprehensive examination on course work and the thesis.

THE MASTER OF ARTS—PSYCHOLOGY

To insure comprehensiveness, all candidates must include in their program each of the following courses designed in their whole to provide integrated coverage of the graduate field of psychology. For description of courses see listings under the Department of Psychology.

- 262, THEORIES OF PERSONALITY I AND II. Four credit hours, two each semester.
- 501, CONTEMPORARY THEORY IN PSYCHOLOGY. Three credit hours.
- 502, PHILOSOPHICAL ISSUES IN PSYCHOLOGY. Three credit hours.
- 505, PROFESSIONAL PROBLEMS IN PSYCHOLOGY. One credit hour.
- 511, ADVANCED STATISTICS. Three credit hours.
- 521, ADVANCED EXPERIMENTAL PSYCHOLOGY. Three credit hours.

To insure the attainment of his particular objective in graduate study in psychology, the student must include a concentration in one of the following areas of concentration:

General-Experimental Psychology

A minimum of thirteen credit hours selected from the following courses: Biological Basis of Animal Behavior, Learning and Motivation, Design of Experiments, Research Problems in Psychology, Communication, Social Psychology, Differential Psychology, Psychological and Achievement Tests.

Clinical Psychology

A minimum of thirteen credit hours selected from the following courses: Learning and Motivation, Psychopathology, Dynamic Psychology, Individual Tests of Intelligence, Counseling Principles and Techniques, Projective Techniques I and II, Research Problems in Psychology, Communication, Counseling and Psychotherapy, Diagnosis and Correction of Reading Disabilities. Practicum in Clinical Psychology is required.

Counseling Psychology

A minimum of thirteen credit hours selected from the following courses: Learning and Motivation, Developmental Psychology, Dynamic Psychology, Vocational and Educational Guidance, Psychological and Achievement Tests, Counseling Principles and Techniques, Individual Tests of Intelligence, Communication, Diagnosis and Correction of Reading Disabilities. Practicum in Counseling is required.
Industrial Psychology

A minimum of thirteen credit hours selected from the following courses: Occupational Information, Marketing Research, Personnel Selection and Evaluation Techniques, Communication, Design of Experiments, Dynamic Psychology, Learning and Motivation. Practicum in Industrial Psychology is required.

School Psychology

A minimum of thirteen credit hours selected from the following courses: Psychological and Achievement Tests, Individual Tests of Intelligence, Learning and Motivation, Counseling and Psychotherapy, Projective Techniques, Developmental Psychology, and The Role and Function of the School Psychologist. All are required, together with a nine-month full-time approved internship, for Ohio School Psychologist certification.

Requirements

Depending on the student's concentration, a minimum of thirty-six graduate hours is required for the Master of Arts in psychology. These shall ordinarily be distributed as follows:

1. Seventeen credit hours in the core courses.
2. Thirteen credit hours in the area of concentration.
3. Six hours awarded for Master's thesis.

The Master of Arts in psychology will be awarded only to candidates who have demonstrated a reading knowledge of a foreign language or demonstrated competence in the computer language by passing the University course or passing a special examination and, in a final oral examination, have both successfully defended their thesis and demonstrated their knowledge of the general field of psychology.

Admission

1. Bachelor's degree from an accredited college or university.
2. A 2.5 overall undergraduate average and a 3.0 average in all psychology courses.
3. A minimum of eighteen undergraduate credit hours in psychology which should include experimental psychology (with laboratory), introductory statistics, psychology of personality, and/or abnormal psychology. Courses in biological science and college mathematics are recommended as a preparation for graduate studies. In case the applicant does not meet these requirements, he may be admitted as a special student until he makes up the necessary hours.
5. Candidates for the Master of Arts in psychology must have personality and character traits which are in agreement with ethical standards of psychology.

Full-time students must complete the following procedures in advance of registration:

1. Submit to the Graduate Office the completed application form for admission to the Graduate School and special application form for admission to the department of psychology.
2. Submit transcript of previous college work.

3. Submit to the Graduate Office report of M.A.T. score or arrange with the Department of Psychology for examination.
4. Arrange with the Psychology Department for a personal interview. (The interviewing of students from considerable distance may be delegated to a local psychologist by special arrangement.)
5. The Dean of the Graduate School will notify the applicant of official acceptance.

Part-time students may be admitted as special students for their first semester of work prior to M.A.T. results and personal interview. All admission procedures, however, must have been completed prior to their second registration.

THE MASTER OF SCIENCE—CHEMISTRY

The M.S. in chemistry is designed to prepare students for continuing their education to the doctoral level in chemistry, for employment in the chemical industry, or for teaching positions at the secondary and junior college level.

For admission to the program, the applicant should have had undergraduate training in chemistry substantially equivalent to that of a Xavier University B.S. Chemistry major.

Undergraduate prerequisites also include mathematics through the calculus and a full year of physics. A student seriously deficient in these prerequisites will be required to make up the deficiency prior to, or concurrently with, his graduate chemistry studies.

All candidates for the degree of Master of Science must select courses from the four major areas of chemistry according to the following scheme:

Organic Chemistry

One course to be selected from Ch 550, Organic Stereochemistry, and Ch 590, Organic Reaction Mechanisms.

Physical Chemistry

Two courses to be selected from Ch 525, Thermodynamics; Ch 530, Chemical Kinetics; and Ch 535, The Chemical Bond.

Inorganic Chemistry

One course to be selected from Ch 610, Advanced Inorganic Chemistry I, and Ch 612, Advanced Inorganic Chemistry II.

Analytical Chemistry

Two courses to be selected, one from Ch 660, Chemical Separations, and Ch 670, Chemical Measurements; the other from Ch 680, Instrumental Methods, and Ch 685, Synthesis and Characterization of Chemical Compounds.

These courses, all of which carry two hours of credit, generally are offered on a two-year cycle. However, the program can be entered in any semester (excluding summer). The sequence of courses is listed in a brochure which can be obtained from the Chairman of the Department of Chemistry. For descriptions of courses, see listings under the Department of Chemistry.

In addition to the twelve semester hours of chemistry obtained by selection of six of the courses indicated above, the student must earn another twelve hours of classroom credit. The courses which may be taken include: graduate courses in chemistry other than the ones selected from the above list; certain upper division
undergraduate courses in chemistry; graduate mathematics and physics courses; and certain upper division mathematics and physics courses. No more than two undergraduate chemistry courses may be counted towards the degree requirements and the permission of the Chairman of the Chemistry Department must be obtained in the case of mathematics and physics courses.

In his selection of courses, the student is guided by the department chairman, or, after selection of a research project, by his research director. Among the courses, other than those listed above, which are offered regularly are the following:

320 INTRODUCTION TO RADIOCHEMISTRY. Two or three credit hours.
340 TOPICS IN ORGANIC CHEMISTRY. Two credit hours.
370 BIOCHEMISTRY. Three credit hours.
535 INTRODUCTION TO VIBRATIONAL SPECTROSCOPY. Two credit hours.
555 HETEROCYCLIC ORGANIC CHEMISTRY. Two credit hours.
570 NEWER METHODS OF SYNTHETIC ORGANIC CHEMISTRY. Two credit hours.
595 ORGANOMETALLIC CHEMISTRY. Two credit hours.
640 MEDICINAL CHEMISTRY. Two credit hours.
690 SPECIAL TOPICS. Two credit hours each semester
692 SPECIAL STUDY. One credit hour each semester.

A minimum of thirty semester hours of credit is required for the degree of Master of Science in Chemistry. These shall ordinarily be distributed as follows:

1. Twelve credit hours selected from the specified courses in the four areas of organic, physical, inorganic, and analytical chemistry.
2. Twelve additional credit hours selected from graduate and upper division undergraduate chemistry courses and from appropriate mathematics and physics course offerings (see above).
3. Six hours of credit obtained through satisfactory completion of a Master's research problem (Ch 699), submission of a written thesis, and the passing of an oral examination on the contents of the thesis. (A student who can present credentials attesting to significant research experience previously obtained, upon approval by the Chairman of the Department, may be permitted to substitute six hours of additional course work for the research requirement.)
4. The satisfactory completion of a written examination in a scientific modern language (chemical German, French, or Russian). Successful completion of an examination (or a University course) in computer language (FORTRAN) may be substituted for the reading proficiency examination in a scientific modern language.
5. For full-time students, enrollment in Ch 500, Graduate Chemistry Seminar, each semester of attendance. Part-time students are encouraged to attend seminar whenever their schedules permit.

All degree students must present at the time of registration a schedule of courses to be taken which has been approved by the Chairman of the Department of Chemistry or by the student's research director.

Non-degree students are encouraged to consult with the Chairman prior to registration to determine if they possess the proper prerequisites for the course(s) of interest.

Part-time students, especially those who have not chosen a research topic, are urged to consult with the Chairman to learn how curriculum modifications have affected their program of studies.

THE MASTER OF SCIENCE—MATHEMATICS

The program of studies leading to a Master of Science Degree in mathematics is designed to allow the student to select courses in theoretical mathematics or in applied mathematics including the fields of Operations Research and Statistics.

Courses are offered primarily in the late afternoon, evenings, and on Saturday mornings to accommodate part-time as well as full-time students.

Prerequisites and Required Courses

Before being formally accepted into the program, the student must have completed at least 12 semester hours past the elementary calculus, including courses in the multivariate calculus. Before being granted the degree, he must evidence knowledge in the following areas: Linear Algebra, Point Set Topology, Introductory Real and Complex Analyses.

Requirements

As soon as he is admitted to Graduate School, the student should choose an advisor, and submit his name to the Chairman of the Department. Upon completing six graduate credit hours at Xavier he must apply for candidacy. The student must complete thirty hours, at least half of which must be at the 500 level or higher. He must complete a substantial research paper acceptable to the department, and pass a final comprehensive examination.

Alternately a student may complete twenty-four hours, half at the 500 level or higher and submit an acceptable thesis of a research character for which six hours are awarded. He must demonstrate a reading knowledge of a foreign language or approved substitute and pass a final comprehensive examination.

Two Year Cycles of Courses 1974-75

<table>
<thead>
<tr>
<th>Fall</th>
<th>Spring</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mt 201</td>
<td>Mt 211—Mathematical Statistics II</td>
</tr>
<tr>
<td>Mt 260—Elementary Topology</td>
<td>Mt 270—Intermediate Analysis</td>
</tr>
<tr>
<td>Mt 5 — Graduate Elective</td>
<td>Mt 612—Operations Research II</td>
</tr>
<tr>
<td>Mt 602—Operations Research I</td>
<td>Mt 211—Mathematical Statistics II</td>
</tr>
</tbody>
</table>

1975-76

<table>
<thead>
<tr>
<th>Fall</th>
<th>Spring</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mt 201—Mathematical Statistics I</td>
<td>Mt 342—Linear Programming</td>
</tr>
<tr>
<td>Mt 280—Complex Analysis</td>
<td>Mt 613—Numerical Analysis II</td>
</tr>
<tr>
<td>Mt 303—Numerical Analysis I</td>
<td>Mt 5 — Graduate Elective</td>
</tr>
</tbody>
</table>
Other courses in applied and theoretical mathematics together with seminars, institutes and short term courses will be offered according to demand.

Recent electives have included:

- Econometrics
- Numerical Linear Algebra
- Measure Theory and Integration
- Stochastic Processes
- Advanced Optimization Techniques
- Abstract Algebra
- Real Analysis
- Advanced Ordinary Differential Equations
- Vector and Tensor Analysis
- Design of Experiments
- Applied Regression Analysis
- Statistical Decision Theory
- Survey Sampling Theory
- Advanced Statistics

THE MASTER OF SCIENCE—CORRECTIONS

The Master of Science in Corrections is a professional degree designed to meet the needs of workers, both institutional and non-institutional, already in the field of corrections, as well as for those who are preparing to enter careers in corrections.

Accordingly, this degree will be awarded to candidates who have demonstrated a capacity for understanding the dynamics of criminal and delinquent behavior, the nature and scope of the crime and delinquency complex in contemporary society, and the current philosophy, methodology, and techniques of corrections, by satisfactorily completing a program of graduate work designed to impart this knowledge, establish desirable attitudes, and sharpen the necessary skills.

Students electing graduate work in corrections generally must present evidence of an undergraduate degree from an accredited college or university acceptable to the Admissions Committee.

A minimum of thirty hours is required for the degree of Master of Science in corrections. These will be distributed as follows:

501 FOUNDATIONS OF CORRECTIONS. Three credit hours.
503 INSTITUTIONAL CORRECTIONS. Three credit hours.
505 NON-INSTITUTIONAL CORRECTIONS. Three credit hours.
266 CRIME AND PERSONALITY. Three credit hours.

The following five courses are also required:

276 PSYCHOLOGY OF DELINQUENCY. Two credit hours.
510 LEGAL ASPECTS OF CORRECTIONS. Two credit hours.
540 CORRECTIONAL ADMINISTRATION. Two credit hours.
580 INDIVIDUAL RESEARCH AND DIRECTED STUDY IN CORRECTIONS. (Non-classroom) Two credit hours.
590 INTERNSHIP IN CORRECTIONS. (Non-classroom) Two credit hours.

The following courses are available as electives to fill out the final eight hours of the M.S. in corrections program:

Cr 533 INTERVIEWING AND COUNSELING IN CORRECTIONS. Two credit hours.
Cr 550 ALCOHOL AND CRIMINALITY. Two credit hours.

The Master of Science in corrections will be awarded only to candidates who pass an extensive written examination on the general field of corrections covered by the required courses.

Internship

The Graduate School will arrange for students completing the M.S. in corrections to take specialized training in facilities located near their homes. A minimum of three hundred hours of on-the-job training is necessary to fulfill degree requirements.

The student must arrange for an internship through the Director of the corrections program.

An Internship Fee of $125.00 to cover expenses in the administration of the internship is charged each student registering for Cr 590: Internship in Corrections.

THE MASTER OF EDUCATION

The Master of Education, a professional degree, is designed to meet the needs of teachers and school administrators actually engaged in school work. It has one basic aim: stimulating better teaching wherever the influence of the successful candidate may extend, whether it be in an individual classroom, an entire school or a whole school system.

Accordingly, this degree is awarded to the candidate who has demonstrated a capacity for improving the quality of teaching within the particular sphere of his
influence by satisfactorily completing a program of graduate work designed to give
him these characteristics:
1. Broad knowledge of the principles and techniques of education in modern
society.
2. Specific knowledge of one major area of the field of education.
3. Essential understandings and skills necessary for intelligent consumption of
educational research.

Requirements for the degree of Master of Education are specified with certain
basic considerations in mind:
1. Sufficient flexibility is necessary to care adequately for the particular needs
of the in-service educator who enroll for the degree.
2. Graduate programs must be so planned as to insure the student's attaining
a comprehensive knowledge of professional theory and practice in the principal
areas of the field; a detailed knowledge of at least one major area of
specialization—for high school teachers this area may be an appropriate
academic field; and capability in the skills and knowledge necessary for
intelligent comprehension and use of educational research.

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

- **S01 PHILOSOPHY OF EDUCATION.** Three credit hours.
- **S03 ADVANCED EDUCATIONAL PSYCHOLOGY.** Three credit hours.
- **S05 EDUCATIONAL ADMINISTRATION.** Three credit hours.
- **S07 EDUCATIONAL RESEARCH.** Three (two/one) credit hours.

To insure their mastery of a particular area of education, candidates must in-
clude in their programs a concentration of at least twelve credit hours in one of the
following areas of concentration:

- Administration, guidance, school psychology, elementary education, secondary
  education, physical education, the emotionally disturbed child, Montessori education,
  reading specialist, instructional service specialist, educational media specialist,
  biology, business, chemistry, classics, communication arts, English, history-political
  science, mathematics, French, German, Spanish, philosophy, physics, theology,
  music, black studies and humanities.

Those interested in the M. Ed. program may obtain brochures covering specific
of concentrations from the Graduate School office. Separate folders are
available for concentrations in Montessori education and reading specialist.

A minimum of thirty hours is required for the degree of Master of Education.
These shall be distributed as follows:
1. General surveys in education, twelve credit hours.
2. Concentration, twelve credit hours.
3. Pertinent electives, six credit hours.

The degree will be awarded only to candidates who have passed an extensive
written examination covering their particular field of concentration (administration,
guidance, etc.) or over the four general survey courses in education if they have
concentrated in a subject matter field or in elementary or secondary education.
Should the student fail the comprehensive examination he may repeat it
only once.

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**THE MASTER OF BUSINESS ADMINISTRATION**

The degree of Master of Business Administration is a professional degree de-
digned to meet the needs of persons in industry for training which will ready them
for increasing executive responsibilities.

Accordingly this degree is awarded to the candidate who has demonstrated
capacity for leadership in the field of business by satisfactorily completing a gradu-
ate program designed to give him the following characteristics:

1. Broad knowledge of the principles and techniques of business administration.
2. Specific knowledge of one of the major phases of business administration.
3. Essential understandings and skills necessary for intelligent consumption of
research in the fields of business.

Students may be admitted to graduate work in business administration on any
of these bases:

1. Undergraduate degree in business administration.
2. Undergraduate non-business degree, plus at least two full years of business
experience, and eighteen hours of course work in business subjects includ-
ing accounting, economics, marketing, statistics, finance, and quantitative
analysis. Undergraduate deficiencies may be removed by completing BA 501: Basic
Economics (four credit hours); BA 502: Introduction to Quantitative
Methods (two credit hours); BA 503: Basic Accounting (four credit hours);
BA 505: Basic Marketing (two credit hours); BA 506: Basic Statistics (two
credit hours); BA 507: Basic Finance (two credit hours) or their equivalents,
as appropriate. These are special courses open only to graduate students
with undergraduate deficiencies.
3. Undergraduate non-business degree with at least thirty hours of business and
business-related subjects. Deficiencies may be removed by an extended graduate
program including BA 501, 502, 503, 505, 506, and 507 (sixteen graduate
hours as shown) and two additional hours as advised in individual cases.

All M.B.A. degree applicants must take the Admission Test for Graduate
Study in Business. Applicants should arrange to take the test prior to admission.
Test application forms may be obtained from Xavier's Graduate School Office
or by writing directly to the Educational Testing Service, Box 966, Princeton,
New Jersey 08540.

To insure comprehensiveness in their programs for the degree of Master of
Business Administration, all candidates must include in their programs each of
five general survey courses designed in their whole to provide integrated coverage
of the broad business field. These courses are:

- **S11 ECONOMICS OF BUSINESS.** Three credit hours.
- **S12 QUANTITATIVE BUSINESS METHODS.** Three credit hours.
- **S13 MANAGERIAL ACCOUNTING.** Three credit hours.
- **S14 ADMINISTRATIVE OPERATIONS.** Three credit hours.
- **S15 MARKETING STRATEGY.** Three credit hours.

To insure their mastery of a particular area of business administration, candi-
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dates will ordinarily include in their programs a concentration of at least nine credit hours in one of the following areas of concentration:

- Accounting
- Finance
- Personnel
- Management
- Marketing

As a climax to his program, the candidate must include the conference-type seminar, BA 699. This will assist him in marshalling his knowledge of the business field in the solution of specific problems. A student must have at least eighteen graduate hours before taking this course.

A minimum of thirty graduate hours is required for the M.B.A. These shall ordinarily be distributed as follows:
1. Fifteen hours in the five core areas.
2. At least nine hours in a functional area of concentration.
3. Three hours in Seminar: Business Administration Problems.

The degree will be awarded only to candidates who have passed a written comprehensive examination on the general field as covered by the five core courses and the individual's area of concentration.

No 200-400 level courses may be used in the Master of Business Administration program toward the degree without special approval from the Dean of the School of Business Administration.

MASTER OF HOSPITAL AND HEALTH ADMINISTRATION (M.H.A.)

The degree of Master of Hospital and Health Administration is awarded the candidate who has followed a program of studies designed to give him a background in three areas: first, in the principles and concepts of general organization and management theory; second, in the principles and concepts particularly applicable to the management of hospitals; and third, in the social, political and economic determinants of the health care system.

To accomplish the above objectives, the candidate must satisfactorily complete the following:

**Academic Year (42 cr. hrs. required)**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>BA 511</td>
<td>Economics of Business</td>
<td>3 cr. hrs.</td>
</tr>
<tr>
<td>BA 514</td>
<td>Administrative Operations</td>
<td>3 cr. hrs.</td>
</tr>
<tr>
<td>HA 630</td>
<td>Hospital Organizational Theory</td>
<td>3 cr. hrs.</td>
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<tr>
<td>HA 631</td>
<td>Hospital Systems Management</td>
<td>3 cr. hrs.</td>
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<tr>
<td>HA 632</td>
<td>Hospital Financial Management I</td>
<td>3 cr. hrs.</td>
</tr>
<tr>
<td>HA 633</td>
<td>Hospital Financial Management II</td>
<td>3 cr. hrs.</td>
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<tr>
<td>HA 634</td>
<td>Hospital Legal Aspects</td>
<td>3 cr. hrs.</td>
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<tr>
<td>HA 635</td>
<td>Current Trends in Medicine</td>
<td>3 cr. hrs.</td>
</tr>
<tr>
<td>HA 636</td>
<td>Hospital Personnel Administration</td>
<td>3 cr. hrs.</td>
</tr>
<tr>
<td>HA 637</td>
<td>Seminar: Health Services Administration</td>
<td>3 cr. hrs.</td>
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<tr>
<td>HA 638</td>
<td>Medical Care Organization I</td>
<td>3 cr. hrs.</td>
</tr>
<tr>
<td>HA 639</td>
<td>Medical Care Organization II</td>
<td>3 cr. hrs.</td>
</tr>
<tr>
<td>HA 640</td>
<td>Psychology of Executive Behavior</td>
<td>3 cr. hrs.</td>
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<tr>
<td>HA 641</td>
<td>Research in Hospital Administration</td>
<td>3 cr. hrs.</td>
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<tr>
<td>HA 642</td>
<td>Health Systems Analysis</td>
<td>3 cr. hrs.</td>
</tr>
<tr>
<td>HA 643</td>
<td>Administrative Residency (12 months)</td>
<td>9 cr. hrs.</td>
</tr>
<tr>
<td>HA 644</td>
<td>Master's Thesis</td>
<td>3 cr. hrs.</td>
</tr>
<tr>
<td>HA 645</td>
<td>Administrative Residency (12 months)</td>
<td>9 cr. hrs.</td>
</tr>
</tbody>
</table>

Before receiving the degree of Master of Hospital and Health Administration, all students must complete a calendar year of administrative residency in a hospital, unless specifically exempted in writing by the Director of the Hospital and Health Administration program. Exception will be made only when the student evidences equivalent experience prior to enrolling in the degree program. A student will ordinarily receive compensation from the hospital in which he serves his residency. The student will register for nine credit hours and pay the normal tuition charge.

A minimum of forty-two graduate hours plus the completion of the administrative residency and master's thesis is required for the degree of Master of Hospital and Health Administration.

The degree of Master of Hospital and Health Administration will be awarded only to candidates who have passed a written comprehensive examination on seven areas of study.

The candidate must write a Master's Thesis and have it accepted by the faculty of the Graduate Program in Hospital and Health Administration as partial fulfillment of the requirements for the degree.

Students may be admitted to graduate degree work in hospital administration on either of the two following basis:

1. Undergraduate degree which includes at least twenty-one hours of study in business subjects including six credit hours in accounting, three credit hours in statistics and six credit hours in economics.
2. Undergraduate degree, at least two full years of hospital or general business experience and course work as follows: six credit hours in accounting; three credit hours in statistics; and six credit hours in economics.

**Health Systems Analysis**

Special Note: It is anticipated that by Fall 1974 a new concentration in the M.H.A. program will be organized in the field of Health Systems Analysis. Essentially it will involve the application of quantitative methods to the solution of systems problems in the health care field.
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Members of the Faculty — 1973-1974

The year mentioned in parenthesis is the date of appointment.

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Assistant Professor of Classics
<table>
<thead>
<tr>
<th>Name</th>
<th>Title and Years</th>
</tr>
</thead>
<tbody>
<tr>
<td>ALGIDAS S. FEDORAVICUS</td>
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</tr>
<tr>
<td>ALVIN F. HOLMAN</td>
<td>M.A. (1956) Lecturer in Spanish</td>
</tr>
<tr>
<td>REV. LAWRENCE E. ISENECKER, S.J.</td>
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</tr>
<tr>
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WILLIAM MARCACCIO  
Assistant Professor of Finance

JOHN B. MARTIN  
Assistant Professor of Finance
<table>
<thead>
<tr>
<th>Name</th>
<th>Position</th>
<th>Education</th>
<th>Department</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>REV. EDWARD J. O’CONNOR, S.J.</td>
<td>Assistant Professor of Theology</td>
<td>A.B., M.A., S.T.L. (1956)</td>
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<td></td>
</tr>
<tr>
<td>JOHN O’CONNOR</td>
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<td></td>
</tr>
<tr>
<td>RICHARD T. O’NEILL</td>
<td>Professor of Chemistry</td>
<td>B.S., M.S., Ph.D. (1959)</td>
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<td></td>
</tr>
<tr>
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<td></td>
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<tr>
<td>ROGER OVERBERG</td>
<td>Lecturer in Corrections</td>
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<tr>
<td>JOHN W. PALMER</td>
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</tr>
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<td>Professor of Education: Assistant Dean, Summer Sessions and College of Continuing Education</td>
<td>Ph.B., M.A., Ed.D. (1966)</td>
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</tr>
<tr>
<td>HOWARD P. PECQUET</td>
<td>Laboratory Instructor, Biology</td>
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<td></td>
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<td>GRAHAM F. PETRI</td>
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<td>JOHN POHLMAN</td>
<td>Assistant Professor of Communication Arts and Education; Coordinator of Lodge Learning Laboratory</td>
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<td>CAROLINE S. PRESSMAN</td>
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<td>GERALD QUATMAN</td>
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<td>LEE ANN RINSKY</td>
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<td>TIMOTHY M. RIORDAN</td>
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<td>RICHARD J. ROLWING</td>
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<td>THOMAS ROTH</td>
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<tr>
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<tr>
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<tr>
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<td>KENNETH T. SCHEURER</td>
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<td>HANS SCHMIDT, JR.</td>
<td>Associate Professor of Psychology</td>
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<td>REV. ROBERT W. SCHMIDT, S.J.</td>
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<tr>
<td>ROBERT A. SCHUTZMAN</td>
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<tr>
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<tr>
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JOSEPH H. BRANDABUR, M.D., Director
LOUISE LANG, M.T. (ASCP), Education Coordinator

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LOUIS Z. GORDON, M.D., Director
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Bethesda Hospital School of Medical Technology
VICTOR H. HINRICHS, M.D., Director
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"It is the policy of Xavier University to provide equal opportunity in all areas of employment for all qualified persons and to prohibit discrimination in employment because of race, creed, color, sex, or national origin. This policy of equal opportunity applies to all University policies and practices. The University's goal is to achieve a diverse, multi-racial faculty and staff of men and women dedicated to the objectives of the University and capable of providing for excellence in the education of its students."

UNIVERSITY CALENDAR, 1974-1975

Fall Semester

Sept. 3, Tuesday through Sept. 7, Saturday
Mail registration, Graduate School.

Sept. 7, Saturday
Graduate School mail registration closes—5:00 P.M.

Sept. 12, Thursday
Registration local seniors (90 or more hours), 9:00-11:30 A.M.
Registration local juniors (55 to 89 hours), 1:00-3:30 P.M.
Registration, College of Continuing Education, 1:00-3:30 P.M.; 6:30-9:00 P.M.

Sept. 13, Friday
Registration, local sophomores (28 to 54 hours), 9:00-11:30 A.M.
Registration freshmen, as assigned, 1:00-3:30 P.M.
Registration, Graduate School, 8:30 A.M.-5:00 P.M.; 6:30-8:30 P.M.
Registration, College of Continuing Education, 1:30-3:30 P.M.; 6:30-9:00 P.M.

Sept. 14, Saturday
Registration, Graduate School, 9:00 A.M.-2:00 P.M.
Registration, College of Continuing Education, 10:00 A.M.-1:00 P.M.

Sept. 16, Monday
Registration freshmen, as assigned, 9:00-11:30 A.M.; 1:00-3:30 P.M.
Registration, Graduate School, 8:30 A.M.-5:00 P.M.; 6:30-8:30 P.M.

Sept. 17, Tuesday
Registration, out-of-town sophomores, juniors, seniors, 9:00-11:30 A.M.; 1:00-3:30 P.M.
Registration, Graduate School, 8:30 A.M.-5:00 P.M.; 6:30-8:30 P.M.
Registration, College of Continuing Education, 1:00-3:30 P.M.; 6:30-9:00 P.M.

Sept. 18, Wednesday
Instruction begins, all divisions.

Sept. 22, Sunday
Mass of the Holy Spirit, 5:00 P.M.

Sept. 25, Wednesday
Last day for late registration or changes in registration in the undergraduate day colleges.

Sept. 30, Monday
Last day for course changes, College of Continuing Education students only.

Sept. 30, Monday through Oct. 3, Thursday
Convocation, College of Continuing Education students.

Oct. 3, Thursday
Veterans Day, holiday, all divisions.

Oct. 28, Monday
Graduate School, Foreign Language Examinations, and FORTRAN Examination, 2:00 P.M.

Nov. 11, Monday
Mid-semester grades for undergraduate students—day and evening—due in respective offices by 5:00 P.M.
Nov. 13, Wednesday  Memorial Mass for deceased benefactors, alumni, faculty,
and students, 5:00 P.M., classes as usual.

Nov. 27, Wednesday  Thanksgiving Vacation begins—holiday, all divisions.

Dec. 2, Monday  Classes resume, all divisions, 8:30 A.M.

Dec. 5, Thursday through Dec. 19, Thursday  Pre-registration, undergraduate colleges, day division.

Dec. 17, Tuesday  Final date for withdrawal from courses without failure,
undergraduate colleges only.

Dec. 23, Monday  Christmas Vacation begins—holiday, all divisions.

1975

Jan. 6, Monday  Classes resume, all divisions, 8:30 A.M.

Jan. 7, Tuesday  Final date for submission of thesis for January graduates,
undergraduate colleges.

Jan. 11, Saturday  Senior Comprehensive Exams, undergraduate colleges.
M.Ed. and M.B.A. Comprehensive Examinations.

Jan. 13, Monday through Jan. 17, Friday  Semester Examinations, day undergraduate college.

Jan. 14, Tuesday through Jan. 20, Monday  Semester Examinations, Graduate School and
College of Continuing Education.

Jan. 20, Monday  End of first semester, all divisions.

Spring Semester

Jan. 13, Monday through Jan. 17, Friday  Mail registration, Graduate School.

Jan. 17, Friday  Graduate School mail registration closes—5:00 P.M.

Jan. 24, Friday  Registration, Graduate School, 8:30 A.M.-5:00 P.M.;
6:30-8:30 P.M.
Registration, College of Continuing Education, 1:30-3:30 P.M.; 6:30-9:00 P.M.

Jan. 25, Saturday  Registration, Graduate School, 9:00 A.M.-2:00 P.M.
Registration, College of Continuing Education, 10:00 A.M.-1:00 P.M.

Jan. 27, Monday  Registration, Graduate School, 8:30 A.M.-5:00 P.M.;
6:30-8:30 P.M.
Registration, College of Continuing Education, 1:30-3:30 P.M.; 6:30-9:00 P.M.
Registration, local seniors (90 or more hours), 9:00-11:30 A.M.
Registration, local juniors (55 to 89 hours), 1:00-3:30 P.M.

Jan. 28, Tuesday  Registration, Graduate School, 8:30 A.M.-5:00 P.M.;
6:30-8:30 P.M.
Registration, College of Continuing Education, 1:00-3:30 P.M.; 6:30-9:00 P.M.
Registration, local sophomores (28 to 54 hours), 9:00-11:30 A.M.
Registration, local freshmen (27 or fewer hours), 1:00-3:30 P.M.

Jan. 29, Wednesday  Instruction begins, Graduate School and
College of Continuing Education.
Registration, out-of-town undergraduates,
9:00-11:30 A.M.; 1:00-3:30 P.M.

Jan. 30, Thursday  Instruction begins, undergraduate day colleges, 8:30 A.M.

Feb. 3, Monday  Last day for course changes, College of Continuing
Education students.

Feb. 6, Thursday  Last day for late registration or changes in registration,
day undergraduate colleges.

Feb. 17, Monday  Lincoln-Washington Birthday, holiday, Day-undergraduate
colleges ONLY.

Mar. 15, Saturday  Graduate School, Foreign Language Examinations, and
FORTRAN Examination 2:00 P.M.

Mar. 24, Monday  Mid-semester grades for undergraduate students—day and
evening—due in respective offices by 5:00 P.M.

Mar. 26, Wednesday  Final date for filing applications for degrees to be
granted in June, all divisions.

Mar. 28, Friday  Easter Vacation begins, holiday, all divisions.

Apr. 5, Saturday  Classes resume, Graduate School and College of
Continuing Education, 8:30 A.M.

Apr. 7, Monday  Classes resume, day undergraduate colleges, 8:30 A.M.

Apr. 26, Saturday  Senior Comprehensive Examinations.

Apr. 28, Monday  Final date for withdrawal from courses without failure,
undergraduate colleges only.

Apr. 30, Wednesday through May 15, Thursday  Pre-registration, day undergraduate colleges
Early registration, College of Continuing
Education students.

May 2, Friday  Final date for submission of senior thesis, June graduates.

May 3, Saturday  M.Ed. and M.B.A. Comprehensive Examinations, 1:30 P.M.

May 5, Monday  Honors Convocation, 1:30 P.M.

May 14, Wednesday through May 20, Tuesday  Semester Examinations, Graduate School and
College of Continuing Education.

May 19, Monday through May 23, Friday  Semester Examination, day undergraduate colleges.

May 23, Friday  End of Spring semester, all divisions.

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May 29, Thursday Commencement Exercises, Graduate School.
May 31, Saturday Commencement Exercises, all undergraduate colleges.

Summer Sessions, 1975

June 9, Monday through June 14, Saturday
June 16, Monday First Summer Session begins, all divisions.
July 2, Wednesday Graduate School, Foreign Language Examinations.
July 4, Friday Independence Day Holiday, all divisions.
July 10, Thursday M.Ed. and M.B.A. Comprehensive Examinations, 1:30 P.M.
July 18, Friday First Summer Session ends, all divisions.
July 21, Monday Second Summer Session begins, all divisions.
Aug. 14, Thursday M.Ed. and M.B.A. Comprehensive Examinations, 1:30 P.M.
Aug. 22, Friday Second Summer Session ends, all divisions.

UNIVERSITY CALENDAR, 1975-1976
Fall Semester

Sept. 2, Tuesday through Sept. 6, Saturday Mail registration, Graduate School.
Sept. 6, Saturday Graduate School mail registration closes—5:00 P.M.
Sept. 11, Thursday Registration, local seniors (90 or more hours), 9:00-11:30 A.M.
Registration, local juniors (55 to 89 hours), 1:00-3:30 P.M.
Registration, Graduate School, 8:30 A.M.-5:00 P.M.
Registration, College of Continuing Education, 1:00-3:30 P.M.; 6:30-9:00 P.M.
Sept. 12, Friday Registration, local sophomores (29 to 54 hours), 9:00-11:30 A.M.
Registration, freshmen, as assigned, 1:00-3:30 P.M.
Registration, Graduate School, 8:30 A.M.-5:00 P.M.; 6:30-8:30 P.M.
Registration, College of Continuing Education, 1:30-3:30 P.M.; 6:30-9:00 P.M.
Sept. 13, Saturday Registration, Graduate School, 9:00 A.M.-2:00 P.M.
Registration, College of Continuing Education, 10:00 A.M.-1:00 P.M.
Sept. 15, Monday Registration, freshmen, as assigned, 9:00-11:30 A.M.; 1:00-3:30 P.M.
Registration, Graduate School, 8:30 A.M.-5:00 P.M.; 6:30-8:30 P.M.

Sept. 16, Tuesday Registration, out-of-town sophomores, juniors, seniors, 9:00-11:30 A.M.; 1:00-3:30 P.M.
Registration, Graduate School, 8:30 A.M.-5:00 P.M.; 6:30-8:30 P.M.
Registration, College of Continuing Education, 1:00-3:30 P.M.; 6:30-9:00 P.M.
Sept. 17, Wednesday Instruction begins, all divisions.
Sept. 21, Sunday Mass of the Holy Spirit, 5:00 P.M.
Sept. 24, Wednesday Last day for late registration or changes in registration in the undergraduate day colleges.
Sept. 29, Monday Last day for course changes, College of Continuing Education students only.
Sept. 29, Monday through Oct. 2, Thursday Convocation, College of Continuing Education students.
Oct. 2, Thursday Veterans Day Holiday, all divisions.
Nov. 1, Saturday Graduate School, Foreign Language Examinations, and FORTRAN Examination, 2:00 P.M.
Nov. 10, Monday Mid-semester grades for undergraduate students—day and evening—due in respective offices by 5:00 P.M.
Nov. 12, Wednesday Memorial Mass for deceased benefactors, alumni, faculty, and students, 5:00 P.M., classes as usual.
Nov. 26, Wednesday Thanksgiving Vacation begins—holiday, all divisions.
Dec. 1, Monday Classes resume, all divisions, 8:30 A.M.
Dec. 2, Tuesday through Dec. 16, Tuesday Pre-registration, undergraduate colleges, day division.
Dec. 16, Tuesday Early registration, College of Continuing Education students.
Dec. 16, Tuesday Final date for withdrawal from courses without failure, undergraduate colleges only.
Dec. 22, Monday Christmas Vacation begins, holiday, all divisions.

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Jan. 5, Monday Classes resume, all divisions, 8:30 A.M.
Jan. 6, Tuesday Final date for submission of thesis for January graduates, undergraduate colleges.
Jan. 10, Saturday Senior Comprehensive Examinations, undergraduate colleges; M.Ed. and M.B.A. Comprehensive Examinations.
Jan. 12, Monday through Jan. 16, Friday Semester Examinations, day undergraduate college.
Jan. 13, Tuesday through Jan. 19, Monday Semester Examinations, Graduate School and College of Continuing Education.
Jan. 19, Monday End of first semester, all divisions.
<table>
<thead>
<tr>
<th>Date</th>
<th>Event</th>
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<tbody>
<tr>
<td>Jan. 9, Monday</td>
<td>Mail registration, Graduate School.</td>
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<td>Jan. 15, Friday</td>
<td>Graduate School mail registration closes—5:00 P.M.</td>
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<td>Jan. 23, Friday</td>
<td>Registration, Graduate School, 8:30 A.M.-5:00 P.M.;</td>
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<td>Registration, Graduate School, 9:00 A.M.-2:00 P.M.</td>
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<td>Feb. 2, Monday</td>
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<td>Feb. 5, Thursday</td>
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<td>Feb. 16, Monday</td>
<td>Lincoln-Washington Birthday, holiday, day-graduate colleges ONLY.</td>
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<td>Mar. 13, Saturday</td>
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<td>FORTRAN Examination, 2:00 P.M.</td>
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<td>Mar. 22, Monday</td>
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<td>June, all divisions.</td>
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<td>Apr. 16, Friday</td>
<td>Easter Vacation begins, holiday, all divisions.</td>
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<td>Apr. 24, Saturday</td>
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<td>Continuing Education, 8:30 A.M.</td>
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<td>Apr. 26, Monday</td>
<td>Classes resume, day undergraduate colleges, 8:30 A.M.</td>
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<td>May 1, Saturday</td>
<td>Final date for withdrawal from courses without failure, undergraduate colleges only.</td>
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<td>Apr. 28, Wednesday through May 13, Thursday</td>
<td>Pre-registration, day undergraduate colleges. Early registration, College of Continuing Education students.</td>
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<td>Apr. 30, Friday</td>
<td>Final date for submission of senior thesis, June graduates.</td>
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<td>May 8, Saturday</td>
<td>M.Ed. and M.B.A. Comprehensive Examinations, 1:30 P.M.</td>
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<td>May 3, Monday</td>
<td>Honors Convocation, 1:30 P.M.</td>
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<td>May 12, Wednesday through May 18, Tuesday</td>
<td>Semester Examinations, Graduate School and College of Continuing Education.</td>
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<td>May 17, Monday through May 21, Friday</td>
<td>Semester Examinations, day undergraduate colleges.</td>
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<td>May 21, Friday</td>
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<td>May 27, Thursday</td>
<td>Commencement Exercises, Graduate School.</td>
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<td>May 29, Saturday</td>
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<td>June 7, Monday through June 12, Saturday</td>
<td>Intersession.</td>
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<td>June 14, Monday</td>
<td>First Summer Session begins, all divisions.</td>
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<td>June 30, Wednesday</td>
<td>Graduate School, Foreign Language Examinations.</td>
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<td>July 4, Friday</td>
<td>Independence Day. Holiday, all divisions.</td>
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<td>July 8, Thursday</td>
<td>M.Ed. and M.B.A. Comprehensive Examinations, 1:30 P.M.</td>
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<td>July 16, Friday</td>
<td>First Summer Session ends, all divisions.</td>
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<td>July 19, Monday</td>
<td>Second Summer Session begins, all divisions.</td>
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<td>Aug. 12, Thursday</td>
<td>M.Ed. and M.B.A. Comprehensive Examinations, 1:30 P.M.</td>
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<td>Aug. 20, Friday</td>
<td>Second Summer Session ends, all divisions.</td>
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