College of Liberal Arts and Sciences

DE PAUL UNIVERSITY
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THE COLLEGE
OF LIBERAL ARTS
AND SCIENCES

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FOREWORD

Few decisions are more important to a young man or young woman than the selection of the college or university he will attend. In America, there are many schools of higher education—nearly 2,000 as a matter of fact. All are good; all have something to offer. Yet the school that is good for one may not be good for another. Each has its strengths and, all too often, each has its weaknesses. It is the job of the student to learn enough about the school in which he is interested to learn whether its strengths correspond to his own. Is it the kind of school, in short, that will enable him to learn how to think, to learn how to examine the world about him, to help him prepare for a future life that will be useful and happy; to enable him to utilize the strength and wisdom of the school so that he too may become strong and wise.

This bulletin has been prepared to answer questions of the student and prospective student. In it the student will find information about the University—its history, its objectives, its physical setting, its rules and regulations. More important, he will learn how De Paul looks upon higher education, what it regards its objectives to be, how it seeks to fulfill them.

The student will also learn what is expected of him—before he applies for admission and afterwards if he is accepted. He will get a clear picture of the four years that await him—the exciting years upon which so much of the student’s future life and work will depend.

The decision to enter a college or university is not one to be taken lightly. We at De Paul hope that the information in these pages will assist the student to make his choice with wisdom. We also hope that he will accept our invitation to all entering students to visit the University, talk over their educational goals with our admissions counselors, and to observe the spirit and atmosphere of a University that has been a part of the Chicago scene for more than sixty years.
HISTORY

De Paul University is a Catholic institution of higher learning under the control of priests of the Western Province of the Congregation of the Mission. These priests are known as the Vincentian Fathers. They derive their name from St. Vincent de Paul, a man of Christlike simplicity who was perhaps the most distinguished apostle of charity the world has ever known. St. Vincent de Paul founded the community in 1625 in Paris; its first work was to give missions (hence the formal name, congregation of the Mission, and the initials, C.M.) in the rural areas of France.

In order to follow up the work of the missions, St. Vincent de Paul soon saw the need for properly educated men of God. It was but a natural step for him to establish seminaries for the education of young men for the priesthood. He is celebrated today in Church history for his development of formal educational requirements for aspiring priests.

The first establishment of the Vincentian Fathers in the United States was St. Mary's Seminary, Perryville, Missouri, which was opened in 1818—the oldest institution of higher learning west of the Mississippi. A half-century later, in 1875, the Vincentian Fathers came to Chicago, establishing the parish of St. Vincent de Paul. The cornerstone of the first church, at Webster and Kenmore Avenues, was laid on November 1, 1875.

Some twenty years later, Archbishop Feehan suggested to the Vincentian Provincial that the Vincentian Fathers start a college for men in Chicago. St. Vincent's College opened its doors on September 5, 1898, with a student body of seventy-two and a faculty of ten. In December 1907, a new charter authorized De Paul University as "a legally organized Corporation"—the first Catholic university in the State of Illinois.

With the registration of women in 1911, De Paul became the first Catholic co-educational university in the nation. It had previously been the first Catholic school to introduce a modified elective system supplanting the rigid curricula then in vogue.

The year 1912 saw the beginning of three important colleges of the University—the College of Commerce, College of Law, and School of Music.

Known as the Illinois College of Law for fifteen years prior to its affilia-
tion, the De Paul College of Law has granted degrees throughout its history to more than 4,500 men and women. Its evening division became in May 1925 one of the first five evening law schools in the country to receive recognition by the American Bar Association as a Class A institution.

The College of Commerce was organized in September 1912, placing it among the first schools of business established in the United States. It is a member of the American Association of Collegiate Schools of Business which numbers only 99 members though over 300 American Colleges give business programs.

The School of Education was organized in September, 1962, succeeding the former Department of Education. Six departments are included in the School of Education. These are the Department of Elementary Education, Department of Secondary Education, Department of Business Education, Department of Music Education, Department of Physical Education, and Department of Special Education.

The School of Music is the first music department of a Catholic university to be admitted as an institutional member of the National Association of Schools of Music, and one of the first nine university music schools to be fully accredited for the granting of graduate degrees.

Late in 1962 the University announced a $22,400,000 "Program for Greatness," scheduled for completion in 1973, De Paul's 75th anniversary year. Plans call for adding 26.5 acres and five new buildings to the north side campus. Half of the program's funds will be used for faculty salaries, student scholarships, cultural, religious and social programs, community service programs, and expanded library holdings.

Ground was broken in June, 1965 for the $4.3 million Academic Center, which will house one of the finest library facilities in the area, classrooms, offices and research facilities. Following its completion, construction will begin on a student union building, auditorium and two dormitories.

De Paul's "Program for Greatness" was the result of a two-year survey by thirteen committees involving 72 members of the faculty and administrative staff.
THE OBJECTIVES
OF THE UNIVERSITY

The objective of De Paul University is the development of the students into well-balanced personalities, oriented toward supernatural as well as natural truth, so that they may live and work as sons of God and brothers of Christ. Vital to such development are: 1) broad knowledge of the nature and evidence of revealed religion and of scholastic philosophy, 2) training in other fields of culture as life outside of vocational occupations demands, and 3) formation of character through the practice of the commandments and counsels so that Christ may live in them. There will be emphasis on preparation for family living, on improving our economic and political order while retaining our freedom of enterprise and our democratic government, and on working patiently and intelligently toward international peace and understanding without sacrificing the individuality of our political organization and without impoverishing ourselves. Because the students must participate in keeping our culture in existence, in extending and perfecting it, and in transmitting it to the next generation, they are formed toward literary, social, musical, scientific, commercial, legal, or educational vocations.

In all this training the students will be led to understand that the rights of the family, of the State, and of themselves as individuals are in harmony in a Christian society, since the natural order is elevated and perfected by the supernatural order, "each affording mutual aid to the other and completing it in a manner proportioned to its respective nature and dignity" (Pope Pius XI, Christian Education of Youth). They will learn that supernatural religion provides the final purpose for cultural and vocational life, philosophy indicates the principles of achievement, and the government sustains the conditions for cultural and vocational activities.

During their cultural and vocational formation the students will be imbued with desire for truth, love for beauty, and attachment to moral living; and they will be led to acquire the habits of analyzing, defining, searching for evidences, making inferences, generalizing, classifying, organizing, and expressing themselves clearly and with good taste.
THE PURPOSE
OF THE COLLEGE

The purpose of the College of Liberal Arts and Sciences is to provide the best possible liberal education. This is accomplished in a three-fold manner: (a) by giving the student knowledge and appreciation of the great Hellenic and Judeo-Christian culture that is our heritage, with particular emphasis upon the sacredness and dignity of the human personality; (b) by imparting knowledge that leads the student to the possession of intellectual habits that prompt him to think for himself, to express himself articulately, and to ask continuously the question of wisdom—Why?, and (c) by preparing the student for professional life and by developing in him the capacity for further formal education and for self-education.

It is the further purpose of the college to maintain a community of scholars, that is, its faculty who extend knowledge by study and research and perpetuate the Christian tradition by contributing to it.

Finally, though the college does not exist for this purpose, like all Catholic communities it creates an environment of Christian morality, a function especially important since the College serves young men and women at an age when formative influences are most active.
STUDENT LIFE

Most De Paul students find their life on campus a pleasant one, filled with opportunities to make life-long friends, to deepen their understanding of people, and to utilize their cultural and non-academic work outside the classroom as an informal laboratory that in effect extends their classroom activity.

No useful purpose is served by listing all the clubs and organizations that students have created during the past half-century. Most of them are similar to others existing on campuses across the country. Some are peculiar to De Paul alone. All are described in the Signpost, a publication distributed to incoming freshmen during orientation week. (A copy may be obtained by writing to the Director of Student Activities.)

More important is the atmosphere of student responsibility and freedom that prevails upon both campuses within the university, northside and downtown. The university’s faculty and administration have long felt that the student must be encouraged to think and act for himself and thus there are a minimum of restraints placed upon his activity. This is not to say, of course, that the student’s activities will not be held to strict moral accountability. It is to emphasize that the college student is at or has reached the threshold of adulthood and he will best learn to develop his intellectual and religious practices and his social, cultural, and physical skills when he is treated as a responsible adult.

The student government is exactly what its name implies—a body of students that governs itself and all the activities within its jurisdiction. The social activities of all clubs, organizations, fraternities, and sororities are subject to its authority. Intellectual and cultural activities of campus organizations conduct their activities with the informal guidance of a faculty advisor appointed by the chairman of the academic discipline affected. Frequent Student Activities Council meetings of elected officers representing each organization are held. They determine policy—frequently changing it from previous administrations—and the deliberations and debates surrounding them provide one of the most lively activities on campus.
It need hardly be mentioned that the University spares no effort in its attempts to provide a spiritual environment befitting its status as a Catholic institution. The daily Mass on both campuses, the annual retreat, special Lenten devotions, prayer before class—they all help to encourage the student to participate in the devotions of his faith. (Although, of course, students of other faiths are not expected to participate in these activities.) However, these opportunities are only part of the story; they contribute to the spiritual environment that envelops the university. Also part of the environment is the emphasis placed upon the spiritual and religious heritage to which we are heir. Such emphasis exists in and out of the classroom; it is evident in many of the formal and informal groupings of the students who have gathered to deepen their spiritual understanding and to give substance to their religious and spiritual strivings. At De Paul, in short, religion is important and this fact is very much evident in the student's life on campus.

The University's central location in the midst of Chicago—its downtown campus is in the heart of the city's loop and its northside campus is hardly more than ten minutes away—enables the student to participate in the life of the city as well as that of the campus. Indeed, often the two intermingle. Students therefore widen their acquaintance with the worlds of art and music and literature by partaking of the matchless opportunities Chicago offers them. They do so individually, as part of organized activities of their organizations, and as part of university-sponsored activities that in effect extend the classroom to the bustling life of the city outside.

Social life is active. From year to year it changes, depending upon changing fashions and changing student interests, but its central core remains the informal and formal dance, the parties and formal receptions, the annual Homecoming, and the many continuing but extremely informal discussions shared by students of similar interests.

All students are encouraged to take part in the university’s active sports program. Emphasis is placed on those athletic events that will permit a large number of students to gain the relaxation and refreshment that is
necessary to permit them some period of relief from their strenuous academic undertakings. For this reason intramural competition in practically all sports has been among the most popular athletic pursuits of the students, although varsity teams compete in intercollegiate competition in basketball, track and cross country, tennis, golf, bowling, and rifle team activities.

Students with literary or journalistic inclinations will find more than enough opportunity to exercise their interests and talents in the many student publications on campus. The student newspaper and the yearbook have enabled many students to acquire the initial experience that has later helped them to successful careers in the worlds of literature or journalism. A literary magazine, edited by students and faculty, provides an outlet for the creative imagination of students. A law review edited by students of the College of Law is well-known and respected in the legal community. Law students also publish a periodic newsletter that is distributed within their school. Finally, the English Club provides opportunities for students of literature, whether or not they are members of the English Department, to discuss writing and literature with like-minded persons.

The School of Music also provides an unexampled opportunity for all students to advance their understanding and appreciation of serious and popular music. The University's symphony orchestra, band and choir as well as individual members of the School offer frequent concerts and recitals open to all students as well as the public at large.

All activities outlined here are only a portion of the vital and exciting life that exists among the students as they work and play together on and off the campus. For a complete and detailed listing of all that is available to them the student Signpost should be studied carefully. Distributed to students during orientation week, it may be obtained (as mentioned earlier) by writing to the Director of Student Activities.
ENTERING THE COLLEGE

It is only natural that many graduating high school seniors are apprehensive about whether they will be accepted by the college or university of their choice. In this day of rising enrollments and the wide publicity accompanying them students sometimes fear that their high school records may not meet the high standards of today's colleges and universities.

It is for these reasons that it would be well to describe the philosophy that animates the Office of Admissions. Fundamental to this philosophy is the belief that only those students for whom there is a strong likelihood of success should be accepted. In evaluating a student's potential for successful college work, the University spares no effort to make a fair appraisal of those qualifications on which college success can be validly predicated. It examines the applicant's academic record, his scores on aptitude tests, and the recommendations received from high school counselors. The applicant is encouraged to visit the Office of Admissions for a personal interview and in some cases the personal interview may be required.

Such procedures are intended to protect the student's interests. His future success will, in part, depend upon his entering the college or university that is right for him. In addition, the University is concerned with selecting only students who can measure up to its high academic standards.

In general, the Office of Admissions looks favorably upon students who have demonstrated proficiency in English, history, language, mathematics, and science. Further, it is expected that students should be able to speak and write with facility. Finally, the personality and character of the applicant must be carefully considered. For it is in these areas that the fulfillment of the hope and expectations of the applicant's collegiate life may very well rest.

Application for admission should be made early, preferably at the beginning of the senior year in high school. This will allow sufficient time to study thoroughly the applicant's qualifications as well as his potentiality for future success in his college career.

This statement is intended only as a general description of admissions policies and procedures. For specific requirements for admissions and the procedures that must be followed to enter the University, the student should turn to the section entitled Specific Requirements for Admission.
Ordinarily the student will receive either the Degree of Bachelor of Arts or the Bachelor of Science after he has completed four academic years of work. In addition to programs leading to a degree, pre-professional programs are available to those who intend to enter law, medicine, dentistry, nursing, or medical technology.

Approximately half the student's time will be spent in meeting the College's general education requirements; the other half will be allocated to his major field of concentration, his minor field of concentration, and electives.

Both the arts and sciences programs afford opportunities for concentrating in a number of fields in the several departments of the University. The subjects at present recognized as fields of concentration in the College are:

- Biology
- Chemistry
- Economics
- English
- French
- Geography
- German
- History
- Ibero-American Studies
- Latin
- Mathematics
- Military Science
- Music
- Nursing
- Philosophy
- Physics
- Political Science
- Psychology
- Social Sciences:
  - Interdepartmental Programs
- Spanish
- Speech

The college offers these bachelors degrees—the Bachelor of Arts, the Bachelor of Arts—Honors, the Bachelor of Science, and the Bachelor of Science in Medical Technology.

A detailed description of the requirements for each is contained in the pages that follow.
REQUIREMENT FOR THE
BACHELOR OF ARTS DEGREE

ENGLISH: Four courses taken in sequence: two courses in English composition and literature, Introduction to the Types of Literature or Introduction to World Literature and Introduction to the Plays of Shakespeare. Students of exceptional ability in English may be exempt from English 101 and may substitute a course in literature.

FOREIGN LANGUAGE: Four courses in one foreign language are required for all degrees. If a student wishes to continue college study of a foreign language studied in high school he should enter the next course in sequence. A year of the high school language is equivalent to a semester of the language in college. Thus, a student who has completed two years of high school German should normally begin in college with German 103, Intermediate. If the student's background in high school language is poor or if his aptitude in language is weak, he should start another language in college. The languages recognized in fulfillment of this requirement are Latin, French, German and Spanish. The college honors the requirement if completed elsewhere in Russian.

FRESHMAN ORIENTATION: Required of all incoming freshmen.

SCIENCE AND MATHEMATICS: Two science courses in one field and two mathematics courses. Students who plan to teach in the public schools in Illinois outside of the Chicago Public Schools must take two courses in mathematics for State Elementary Certification.

PHILOSOPHY: Five courses taken in sequence: Logic, Philosophical Psychology, Metaphysics I, Metaphysics II, and Ethics, or four courses in the Philosophical Horizons sequence, and a course in the History of Philosophy series.

HISTORY: Two courses must be survey courses of European civilization (History 101 and 102). Students preparing for teaching in the elementary and secondary schools should substitute History 104 and 105.

SOCIAL SCIENCES: Two courses, each in a separate field, are required from the social sciences, i.e., Economics: Principles I; General Sociology; American Government; General Psychology I or Geography. Students who plan to teach are required to take General Psychology and an additional course selected from American Government, Economics: Principles I, and General Sociology.
SPEECH: One of the following courses may be selected: Fundamentals of Group Discussion, Fundamentals of Oral Interpretation, or Fundamentals of Public Speaking.

THEOLOGY: Four courses for all Catholic students.

PHYSICAL EDUCATION: State requirements in Physical Education for teacher certification vary. In Illinois, elementary teachers must have four credits and secondary teachers must have three credits in Physical Education. Prospective teachers are urged to earn these credits early in their college careers. Those physically unable to take practice courses are required by the State of Illinois to have credits in courses about the theory of Physical Education.

MILITARY SCIENCE: The basic course in the freshman and sophomore year is offered to all physically fit male students. Students who are selected and elect Advanced Military Science may minor in Military Science.

A program of concentration in one of the major offerings as prescribed under the appropriate departmental heading.

A minor consisting of a minimum of five courses which are related to the major. The prescribed courses are listed under the appropriate departmental heading.

Elective courses to complete the requirement of 128 semester hours for the bachelor's degree.
BACHELOR OF ARTS / HONORS

Superior students will find the Honors Program of the College of Liberal Arts and Sciences an intellectual adventure that will challenge them to the limit of their abilities. It will hold before them standards higher than those present even in the normally rigorous undergraduate program within the College.

Leading to the degree, Bachelor of Arts, Honors, the program will require the students to exert their best effort to meet the demands of their professors whose instruction will help to provide a mastery of wide-ranging academic disciplines and a penetrating understanding of the interrelationship of all knowledge embraced by the Arts and Sciences.

A student may enter the Honors Program only by invitation. Only those students whose past records and test scores give evidence of their ability to meet the academic and intellectual demands that will be made of them will be chosen.

Special Classes for Honor Students

The honors student will register in courses especially designed for him. These courses, identified in the Arts and Sciences bulletin with an "H" after their numerical designations, will require the intense and continuing application of the student's efforts to acquire mastery of material that is considerably advanced over that which is studied by the general student body in the same courses. In other respects, the two programs will be identical—i.e., the honors student and the non-honors student will be studying the same subject matter areas.

The honors student will begin his work at the beginning of his undergraduate career (unless he is a qualified transfer student). When admitted to the honors program, he will be given special assignments, most notably a list of great books that he will be instructed to read, that will be applicable to the following four years' work.
Individual Attention

Honors classes are small. During the first two years, they are no larger than 20 students for each course, most often smaller. In the Junior and Senior years, no class will consist of more than five students. If during any semester an Honors student takes an advanced course (300 or above) in his major that is not designated as an Honors section, the professor, after giving the student special attention, requiring additional work and having consulted the Director, may request the Registrar to designate the course an Honors section for this student. Moreover, the Honors student will be encouraged to take independent study courses in his major field, any one of which may be designated an Honors section if he successfully completes the requirements to the satisfaction of the Director and the instructor.

Honors Program Teas

Periodically, informal meetings of all Honors students and their professors will be held on invitation by the Director or the students. Customarily, professors are invited to lead a discussion on a subject of his competency.

Field of Concentration

As is required of all undergraduates, honors students will select a field of concentration when they begin their third year of academic work. At the same time, each honors student will choose a departmental advisor, who will help him plan his program, discuss with him the progress he is making, answer questions that may arise, and help him to relate, insofar as possible, present pursuits with the student's future professional interests.

Interdepartmental Colloquium

Each honors student will be required to participate in a colloquium appropriate to his major field of concentration. In it, he will meet with students and instructors in formal discourse to deepen his understanding of the disciplines existing within all departments touching upon his specialized field of study. Interdepartmental colloquia exist in philosophy-science, social science, history-literature, and education-psychology.

Requirements for Honors Degree

1. The student must take a minimum of one Honors course a semester after he is accepted in the Program.
2. He must earn Honors credit in at least 25% of the credits required for graduation.
3. He must take the colloquium appropriate to his major.
4. He must earn an overall grade point average at the time of graduation of 3.2.
5. He must pass three great Literary Works courses; Humanities 301, 302, 303. (See Humanities.)
6. A senior thesis, based on research or creativity, will be the climax of that independent study which will be encouraged throughout the Program. The senior thesis will be written in accordance with the rules prescribed by the Honors Committee. The Director will file the thesis in the Library after approval from the student’s departmental advisor.
SPECIAL PROGRAMS

Liberal Arts/Engineering

To the student wishing to pursue a degree in Engineering the University offers a choice of two programs. One is conducted in cooperation with the University of Notre Dame, the other with the University of Detroit.

The De Paul-Notre Dame program, combining the Arts and Engineering, is often referred to as the “3 and 2” program; i.e., the student completes three years of Arts and Science studies at De Paul, then two years at Notre Dame. Fields of engineering that may be studied are: civil, electrical, mechanical, chemical, or metallurgical.

It must be emphasized that three academic years of residence are required at De Paul and two years of residence are required at the University of Notre Dame. Both degrees—the B.A. from De Paul and the B.E. from Notre Dame—will be conferred upon successful completion of the five-year program.

A somewhat different type of Arts and Engineering combination is offered by De Paul and the University of Detroit. This one is often characterized as the “2 and 3” program; that is, two years of study are spent at De Paul where the student will concentrate in physics, followed by three at the University of Detroit.

The De Paul student who satisfactorily completes his sophomore year may transfer to the University of Detroit for studies in the College of Engineering, which will take three years to complete.

The University of Detroit's engineering program is based on the well-known “cooperative” plan. Under this plan the student divides his time equally between academic studies in the classroom and experience gained in the world of engineering. For three years (including recesses and vacations) he alternates between the University and a business firm, devoting 13 weeks to each.

Students are actually employed during their training periods with industrial firms. The compensation they receive enables them to pay approximately 75 per cent of the cost of attending college, an estimate that also includes the cost of living. Coordinators of this program at the University of Detroit expect to arrange employment in the Chicago area for students who transfer from De Paul.

This program is described in detail in the College of Engineering bulletin of the University of Detroit, which is available in De Paul University's Office of Admissions.
Independent Study Program

The College of Liberal Arts and Sciences provides for the intellectually mature student the opportunity to learn selected areas of his major or minor fields by means of individualized independent study. He is, in this way, extended the encouragement and counsel to master the content of approved major or minor courses (either required or elective) at his own pace and to a depth usually considered unattainable through ordinary classroom concentration. The program is limited to students in the junior and senior years. Requests to take advanced courses by independent study should be made to the chairman of the major or minor department in the semester preceding that in which the course is to be taken. Approval will be contingent upon departmental faculty review of the student's overall record and upon its evaluation of the probable benefit of the proposed study.

To provide the outstanding student the opportunity to pursue scholarly endeavor in an exceptional way, the departments of instruction offer special independent study courses, various titled, but uniformly numbered 399. The nature of this course differs from department to department. While credit hours are variable, the award of more than three hours will definitely be the exception. Details should be obtained from the chairman of the major department.

European Study

The College of Liberal Arts and Sciences encourages able students to spend the junior year in study in Europea countries. Arrangements for this program can be made through the Institute of European Studies. Interested students must obtain the approval of their Department Chairman and the Dean of the College.
BACHELOR OF SCIENCE
REQUIREMENTS

ENGLISH: Four courses taken in sequence: Two courses in English composition and literature, Introduction to Types of Literature or Introduction to World Literature and Introduction to the Plays of Shakespeare. Students of exceptional ability in English may be exempt from English 101 and may substitute a course in literature.

FOREIGN LANGUAGE: Four courses in one foreign language or completion of Course 104 of the language chosen is required for all degrees. If a student wishes to continue college study of a foreign language studied in high school, he should enter the next course in sequence. A year of the high school language is equivalent to a semester of the language in college. Thus, a student who has completed two years of high school German should normally begin in college with German 103—Intermediate. If the student's background in high school language is poor or if his aptitude in language is weak, he should review his high school language by registering for language 101 and/or 102. The languages recognized in fulfillment of this requirement are French, German, and Russian. Students majoring in chemistry and planning to fulfill the recommendations of the American Chemical Society to enter the profession of chemistry must elect German and are advised to take French as a second language.

FRESHMAN ORIENTATION: Required of all incoming freshmen.

MATHEMATICS: See individual departmental requirements.

PHILOSOPHY: Five courses taken in sequence: Logic, Philosophical Psychology, Metaphysics I, Metaphysics II, and Ethics, or four courses in the Philosophical Horizons sequence and one elective.

HISTORY: Two courses must be survey courses of European civilization (History 101 and 102). Students preparing for teaching in the elementary and secondary schools should substitute History 104 and 105.

SOCIAL SCIENCES: Two courses, each in a separate field, are required from the social sciences, i.e., Economics: Principles I, American Government, American History, General Sociology, General Psychology I or Geography. Students who plan to teach are required to take General Psychology and an additional course selected from American Government, Economics: Principles I, and General Sociology.

THEOLOGY: Four courses for all Catholic students.

PHYSICAL EDUCATION: State requirements in Physical Education for teacher certification vary. In Illinois, elementary teachers must have four credits and secondary teachers must have three credits in Physical Education. Prospective teachers are urged to earn these credits early in their college careers. Those physically unable to take practice courses are required by the State of Illinois to have credits in courses about the theory of Physical Education.

MILITARY SCIENCE: The basic course in the freshman and sophomore year is offered to all physically fit male students. Students who are selected and elect Advanced Military Science may elect to substitute six semester hours or two courses in military science for any two of the following courses from the general education requirements: English 204—Introduction to the Plays of Shakespeare; the fourth course in a language.

A program of concentration in one of the major offerings as prescribed under the appropriate departmental heading.

A minor consisting of a minimum of four courses which are related to the major. The prescribed courses are listed under the appropriate departmental heading.

Elective courses to complete the requirement of 128 semester hours for the bachelor's degree.
BACHELOR OF SCIENCE

Medical Technology Major

This program of study offers an opportunity for training in the field of medical technology. It provides a year of technical training at a hospital laboratory approved by the Council on Medical Education and Hospitals of the American Medical Association. Admission requirements to an approved school are as follows:

Effective January 1, 1962, the pre-technical educational requirements for admission to a school of Medical Technology approved by the council will be as follows:

Three years (90 semester hours or 135 quarter hours) of collegiate training in any college or university approved by a recognized regional accrediting agency are required. The three years of college should be acceptable as the first three years of a baccalaureate program in Medical Technology. When preparatory training is properly integrated with professional training in a hospital school affiliated with a college or university, such training could lead to a baccalaureate degree in Medical Technology. Accredited collegiate training in preparation for the study of Medical Technology, as for any professional career, should provide the opportunity for a broad general education to include English, Social Sciences, Arts and Humanities.

During the three years the following courses are required:

CHEMISTRY: A minimum of 4 semesters or 16 semester hours (6 quarters or 24 quarter hours) including lecture and laboratory, acceptable toward a major in chemistry, is required. Survey courses are not acceptable.

This must include one full academic year (2 semesters or 3 quarters) of a general college chemistry course including lecture and laboratory which may include qualitative analysis. It is strongly recommended that at least one semester or quarter of quantitative analytical chemistry be taken.

The other chemistry courses to complete the requirements may be selected from: Qualitative Chemistry, Quantitative Chemistry, Organic Chemistry, Biochemistry, Physical Chemistry or other chemistry courses acceptable toward a chemistry major.

BIOLOGICAL SCIENCES: A minimum of 4 semesters or 16 semester hours (6 quarters or 24 quarter hours) acceptable toward a major in biological science, is required. This must include one full academic year (2 semesters; 3 quarters) of a general biology and/or zoology course including lecture and laboratory.
The remaining biology courses to complete the requirements may be selected from the following subjects: Physiology, Comparative Anatomy, Bacteriology, Parasitology, Histology, Histological Technique, Genetics or other biology courses acceptable toward a biological science major.

It is strongly recommended that at least one semester or 3 semester hours (one quarter or 4 quarter hours) of a basic bacteriology course including lecture and laboratory be taken.

**Mathematics:** Two courses required—Mathematics 101 and 130.

It is strongly recommended that a course in physics be included in the college courses taken.

**Freshman Orientation:** Required of all incoming freshmen.

Certification of the proficiency of a student by a college in any of the above required subjects may be accepted in lieu of these requirements; however, the student must still satisfy the three year requirements of 90 semester hours (135 quarter hours).*

### BACHELOR OF ARTS

**SAMPLE FRESHMAN YEAR**

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26
Liberal Arts / Education

Any student expecting to receive a degree from the School of Education, DePaul University, qualifying him to teach any subject matter area or grade level in the secondary or elementary schools, will register for his freshman and sophomore years in the College of Liberal Arts and Sciences for his preparation in preprofessional education. Any transfer student who intends to enter the School of Education must likewise be registered first with the College of Liberal Arts and Sciences for the purpose of completing 6-9 semester hours of credit and proving his ability as a student. He will then be certified by the College of Liberal Arts and Sciences to the School of Education.

At the beginning of his junior year (after he has completed 63-66 earned hours of academic work) the student will be accepted into the School of Education for his professional studies.

No person will be graduated from the School of Education who does not meet the stated requirements for a teaching certificate in the State of Illinois and the City of Chicago.

Students proposing to be graduated from the School of Education should consult with the counselors for the School of Education in their proper field, even while they are going through their freshman and sophomore years in the College of Liberal Arts and Sciences.

Specifically, students preparing to teach in the State of Illinois or in the City of Chicago must observe any differences induced into their schedule by the requirements for certification as a teacher in the State of Illinois or in the City of Chicago.

Typical differences are: Elementary Education requires American Literature rather than a Shakespeare course, and spells out requirements in Mathematics in the Social Sciences requirements.

The Bachelor of Science in Secondary Education does not require a foreign language. Differences in requirements exist in the Department of Biological Sciences, Chemistry, General Science, and Physics, between the programs for Liberal Arts majors and those who are preparing to teach in the State of Illinois or in the City of Chicago.

It is the personal responsibility of the student to observe requirements and differences.

The student should consult the Bulletin of the School of Education. Any difficulties remaining in his mind after his consultation with the Bulletin should be settled by consultation with his proper advisor. Whatever advice is received should be received in writing. Verbal agreements are not honored.

Liberal Arts / Law Program

The College of Liberal Arts and Sciences and College of Law present a program which leads to the degree Juris Doctor. According to this plan the specific requirements for a bachelor's degree are completed in the College of Liberal Arts and Sciences, exclusive of electives. Upon completion of the major and minor sequences, the general requirements for the bachelor's degree, and a minimum of 101 semester hours, the candidate begins his study of Law. After the successful completion of his first year of law, he becomes eligible for the bachelor's degree at the following convocation.

Law

Students preparing to enter the College of Law of the University must follow the directive program of studies listed for the first three years under the degree, Bachelor of Arts and Bachelor of Science. They must complete a minimum of 96 semester hours or three-quarters of the work toward the degree Bachelor of Arts or Bachelor of Science with a C plus average.

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### BACHELOR OF ARTS

**Music Major***

**Sample Freshman Year**

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### BACHELOR OF SCIENCE

**Biological Sciences**

**Sample Freshman Year**

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<td>Chemistry 115 or 151</td>
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<td>Biology 120n</td>
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### BACHELOR OF SCIENCE

**Chemistry**

**Sample Freshman Year**

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*132 Semester Hours Required. Music Courses are taken at the School of Music, 25 East Jackson Boulevard.*
**BACHELOR OF SCIENCE**

**Mathematics**

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**BACHELOR OF SCIENCE**

**Nursing**

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<td>History 101</td>
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**BACHELOR OF SCIENCE**

**Physics**

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**Engineering**

Students preparing for Engineering in general follow the same courses as Physics majors during their freshman year. Succeeding years require advisement depending on the type of cooperative program the student elects.

Pre-engineering students, like all Science majors, should have completed Trigonometry, so that they are able to enter upon the study of Calculus, during their freshman year, in Mathematics 150.
BACHELOR OF SCIENCE

Psychology

**Sample Freshman Year**

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<td>Biology 120a</td>
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<td>Biology 120b</td>
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<td>Psychology 101</td>
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<td>Psychology 242</td>
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<td>Orientation 101</td>
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NOTE: Students who do not take Psychology 101 in the first semester, should take it in the second semester in place of Mathematics 150.

BACHELOR OF SCIENCE

Medical Technology Major

**Sample Freshman Year**

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PRE-PROFESSIONAL PROGRAMS

Medicine

**Sample Freshman Year**

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Dentistry

Pre-medical and pre-dental students will follow the directive program of studies listed for medicine. Inasmuch as the admission requirements in medical and dental colleges vary, it is the responsibility of each student to familiarize himself with the requirements of the particular professional school he expects to enter.
DEPARTMENTS
OF INSTRUCTION
BIOLOGICAL SCIENCES

The purpose of the Department of Biological Sciences is to provide a curriculum and instruction in basic and advanced aspects of the biological sciences which will enable the student to prepare himself for a career in biology, graduate study, or the teaching of biology, and to serve the needs of pre-professional students. It is also within the purpose of the Department to contribute to the liberal education of all students through its courses in General Biology.

Programs of Major Concentration

A minimum of 30 hours is required to earn a major in the Department.

PROGRAM I. To provide a curriculum for students intending to pursue a career in the biological sciences.

a. Botany—Required: Biology 120a, 120b, 201, 305, 309, 351, 367, 384, and one additional course. Chemistry—Minimum requirements: Chemistry 101 or 111, 115, 157 and 159 or 161 and 165. Mathematics—Minimum requirements: 9 semester hours including Mathematics 130 or 131 or their equivalents.

b. Zoology—Required: Biology 120a, 120b, 202, 204, 308, 367, 370, and four additional hours. Chemistry—Minimum requirements: Chemistry 101 or 111, 115, 157 and 159 or 161 and 165. Mathematics—Minimum requirements: 9 semester hours including Mathematics 130 or 131 or their equivalents.

Languages: German (French or Russian is advised as a second language).

Subsequent to the completion of the undergraduate program the student may continue in advanced studies in the biological sciences leading to a graduate degree (See Graduate School Bulletin).

PROGRAM II. To meet the needs of pre-professional students. Required: Biology 120a, 120b, 202, 204. The remainder of the courses for pre-professional students who elect to earn a major in the biological sciences will be selected in consultation with the advisor for pre-professional students. Chemistry—Minimum requirements: Chemistry 101 or 111, 115, 151, 157 or 161.

PROGRAM III. To meet the needs of medical technologists. Required: Biology 120a, 120b, and three other courses selected from 202, 305, 308, 310, 354; Chemistry—Minimum requirements: Chemistry 101 or 111, 115, 141 or 151, 157 or 161.

The Education courses required for prospective secondary school teachers are listed in the Bulletin of the School of Education. The student should plan these courses in consultation with the Chairman of the Department of Secondary School Education.

Students who wish to teach General Sciences in secondary schools should have Physics 155 and 156, and at least one course in Ecology, Geology, or Astronomy.
Programs of Minor Concentration

For students in the arts and sciences. A minimum of 16 hours is required, including Courses 120a, 120b. The selection of other courses to fulfill the remaining hours must be made in consultation with a staff member of the Department.

For prospective secondary school teachers of biology. A minimum of 24 hours is required, including Courses 120a, 120b, 201, 202, 204. The selection of other courses to fulfill the remaining hours must be made in consultation with a staff member of the Department.

Lower Division Courses

120a GENERAL BIOLOGY
   4 hours. First semester
   Lecture and laboratory studies of the fundamental facts, principles, and laws derived from an analysis of biological systems. Open to all students.

120b GENERAL BIOLOGY
   4 hours. Second semester
   A continuation of Course 120a. (Prerequisite: 120a.)

201 PLANT MORPHOLOGY
   4 hours. First semester
   A study of the structure, classification, and evolution of non-vascular plants. (Prerequisite: 120b or a course in Botany.)

202 VERTEBRATE ANATOMY
   4 hours. First semester
   A study of the anatomical organization of vertebrate animals. (Prerequisite: 120b.)

204 VERTEBRATE EMBRYOLOGY
   4 hours. Second semester
   An inquiry into the events associated with the development of vertebrate animals (Prerequisite: 202.)

Advanced Undergraduate Courses

301 INTRODUCTION TO OCEANOGRAPHY
   3 hours. Offered through University College
   This is a basic course concerned with the study of the seas. Among the topics considered are: the formation of the oceans, their physical and chemical composition, the topography of the ocean floor, the nature and movements of tides and currents, the biological resources of the oceans, and the political and economic significance of the seas. Open to all students. Offered jointly with the Department of Geography.

304 VERTEBRATE EVOLUTION
   3 hours. First semester
   An analysis of the relationships in the anatomy of vertebrates which are used to support organismic evolution. (Prerequisite: 120b.)

305 MICROBIOLOGY
   3 hours. First semester
   Lecture and laboratory. A study of the biology of microorganisms. (Prerequisite: 120b.)

308 VERTEBRATE PHYSIOLOGY
   4 hours. Second semester
   An introductory study of some aspects of the functions of the organ systems in vertebrate animals. (Prerequisite: 120b.)

309 INTRODUCTORY PLANT PHYSIOLOGY
   3 hours. Second semester
   A study of water relations, conduction, mineral nutrition and metabolism in vascular plants. (Prerequisite: 120b.)

310 BASIC STRUCTURE OF TISSUES AND ORGANS
   3 hours. Second semester
   A study of the microscopic and ultramicroscopic anatomy of tissues, organs and organ systems. (Prerequisite: Course 120b.)

351 PLANT ECOLOGY
   3 hours
   Study of individual and collective influences on plants by physiographic, climatic and biotic environmental factors. (Prerequisite: 120b.)

354 PARASITOLOGY
   3 hours. First semester
   A study of protozoa and helminths to elucidate general principles in parasitology and parasitic diseases. (Prerequisite: 120b.)
367 GENETICS  
A study of the factors which regulate species fixation and variations. (Prerequisite: 120b.)

368 CYTOGENETICS  
A study of the cytological basis for heredity with special attention to the genetic effects of chromosomal aberrations. (Prerequisite: 367.)

370 INVERTEBRATE ZOOLOGY  
An analysis of the evidences used from studies on invertebrate anatomy and physiology which support the concept of organismic evolution. (Prerequisite: 120b.)

372 COMPARATIVE BEHAVIOR  
Analysis of behavior patterns in animals, with emphasis on sensory physiology, nervous system integration, and hormonal effects. (Prerequisites: 308 and 370 or instructor's permission.)

380 CELLULAR BIOLOGY  
A study of the physical and chemical factors involved in the organization and function of protoplasm. (Prerequisites: two years in biology and chemistry, or two years of chemistry.)

381 CELLULAR BIOLOGY  
Principles of enzyme kinetics; interrelationships and controls of metabolic pathways related to protoplasmic synthesis. (Prerequisite: 380 or two years of chemistry.)

384 ADVANCED PLANT PHYSIOLOGY  
A study of certain plant functions such as absorption, permeability, mineral utilization, photosynthesis, and respiration. (Prerequisite: 309.)

386 PHYSIOLOGY OF THE ENDOCRINE SYSTEM  
A study of the regulatory role of hormones in the vertebrate organism. (Prerequisite: 308.)

388 RADIOISOTOPE TECHNIQUES AND TRACER METHOD IN BIOLOGY  
A study of the basic principles of radioactivity, radiation characteristics, isotope assay, and tracer methodology. (Prerequisite: 308.)

389 PLANT GROWTH AND DEVELOPMENT  
A study of the factors which regulate plant growth; growth substances, photoperiodism, vernalization, and thermoperiodism. (Prerequisites: 201 and 309.)

390 TECHNIQUES OF TEACHING BIOLOGY IN THE SECONDARY SCHOOLS  
To introduce students preparing for a career in secondary education with the general objectives of instruction, the principles of methods and operational procedures of the profession. Particular studies include source materials and techniques of current science instruction. (Offered jointly with the Department of Secondary Education. See School of Education Bulletin, Secondary Education 357.)

399 INDEPENDENT STUDY  
1-3 hours. Offered by arrangement each semester. Problems which require library and laboratory studies in selected areas of: Morphology, Physiology, Genetics, Endocrinology, Radioisotope techniques. (Prerequisite: approval by the Chairman of the Department.)

FACULTY

MARY A. MCWHINNIE, PH.D., Professor, Acting Chairman
JOSEPH E. SEMRAD, PH.D., Professor
MARY A. MURRAY, PH.D., Associate Professor
ROBERT C. THOMMES, PH.D., Associate Professor
ROBERT A. GRIEBACH, PH.D., Assistant Professor
D. J. MCWHINNIE, PH.D., Assistant Professor
MICHAEL SALMON, PH.D., Assistant Professor
BUSINESS ADMINISTRATION

The Liberal Arts major has the option of enrolling for elective courses through the College of Commerce of De Paul University.

The option should be used to add to one's Liberal Arts major a background in the fields of Management, Finance or Marketing with academic counseling from the College of Commerce.

ACCOUNTANCY 101 ELEMENTS 3 hours. Each semester

ACCOUNTANCY 102 PRINCIPLES 3 hours. Each semester
(Prerequisite: 101.)

BUSINESS LAW 201 CONTRACTS 3 hours. Each semester
A course designed to give the student an appreciation of the origin, nature and growth of law and of the role that law plays in modern business. (Prerequisite: None.)

FINANCE 101 FINANCIAL STRUCTURES AND FUNCTIONS 3 hours. Each semester
This basic course in finance emphasizes the number and variety of institutions engaged in dealing primarily in money or rights to receive money. (Prerequisite: Sophomore standing.)

MANAGEMENT 101 FUNDAMENTALS OF PROFESSIONAL MANAGEMENT 3 hours. Each semester
This course is an introduction to the concepts, principles, and philosophy of professional management. (Prerequisite: None.)

MARKETING 101 PRINCIPLES OF MARKETING 3 hours. Each semester
This course considers marketing as an integral phase of the economic structure. (Prerequisite: Sophomore standing.)

MATHEMATICS 242 BUSINESS STATISTICS 3 hours. Each semester
A course designed primarily to acquaint the student with basic concepts of statistics and the application thereof. (Prerequisites: Mathematics 105 and 106 in the College of Commerce or equivalent.)
CHEMISTRY

The purpose of the curriculum in the Department of Chemistry is to provide a basic training in chemistry in order to prepare the student for the profession of chemistry and graduate study, to prepare future teachers of chemistry, to prepare the preprofessional student and to meet the needs of those students who desire a knowledge of chemistry as part of their cultural background.

The Department of Chemistry is accredited by the American Chemical Society.

Programs of Concentration

MAJOR CONCENTRATION. A minimum of 33 semester hours in chemistry courses is required in any of the following programs. All students who intend to major in chemistry must consult with the Chairman of the Department.

PROGRAM I. To meet the needs of teachers, technicians, and pre-professional students. Required: Chemistry 111, 151, 161, 165, 198, 200, 201, 204, 205, 251 and 321; Mathematics 150, 151 and 211; Physics 170, 171 and 172; German through course 104 or 105. One additional mathematics course and advanced physics course is strongly recommended. A written comprehensive examination in Chemistry must be successfully passed during the senior year.

PROGRAM II. For students intending to enter the profession of chemistry. This program follows the recommendations of the American Chemical Society. Required: The courses in Program I, Chemistry 320, and six additional semester hours of chemistry courses numbered above 390. Mathematics 212 and Physics 290. German through course 104 or 105. (French or Russian is advised as a second language.) Comprehensive examination.

PROGRAM III. Departmental Honors. For students who intend to enter the profession of chemistry after doing graduate work, and who have demonstrated superior ability in this subject and have an overall quality point average of at least 3.30. This program also follows the recommendations of the American Chemical Society, but requires the presentation of a senior thesis. Candidates for the bachelor's degree with departmental honor, "honor in chemistry," should consult with the chairman before registration in the junior year to obtain conditional approval. Participation in senior research is by invitation of the faculty. Required: The courses in Program I and courses 397, 399, and ten additional semester hours of chemistry courses numbered above 300. Mathematics 212, and Physics 290. German. (French or Russian is advised as a second language.) Comprehensive examination.

PROGRAM IV. Integrated Undergraduate-Graduate Program culminating in the Master of Science degree. This program is designed for the superior student who wishes to carry out a research problem in depth and to receive a sound lower-level graduate training in chemistry prior to continuing for the doctorate. This sequence can be completed in a total of five years and consists of 33 hours of undergraduate chemistry, followed by 24 hours of graduate level lectures in physical, organic, and inorganic chemistry courses, 6 hours of graduate research, as well as seminars. Completion and defense of a thesis and satisfaction of the graduate foreign language requisite complete the requirements. Candidates for this program should consult with the Department Chairman and make application to the Graduate School during the first semester of the junior year.
Programs of Minor Concentration

For students in the Arts and Sciences. A minimum of sixteen semester hours in Chemistry is required, including Courses 101 (or 111), 115, and/or 151. The selection of the remaining courses must be made by consulting with the Chairman of the Department.

For prospective secondary school teachers of Chemistry. A minimum of twenty-four semester hours of Chemistry courses is required, including Courses 101 (or 111), 115, 151 and 161.

Lower Division Courses

101 GENERAL CHEMISTRY 4 hours. First semester
The fundamental laws, theories and techniques of chemistry are treated in this introductory course, which is designed for those who are not required to take the more rigorous Course 111 or who have not had high school chemistry. (3 hours lecture, 1 hour quiz, 1 hour laboratory lecture and 3 hours laboratory.)

111 GENERAL CHEMISTRY I 4 hours. First semester
The fundamental laws, theories, and techniques of chemistry are treated more rigorously than in Course 101. This course is required for all chemistry majors and is strongly recommended for other science majors who have departmental approval based upon the results of a screening examination to be given prior to registration. (3 hours lecture, 1 hour quiz, 1 hour laboratory lecture, and 3 hours laboratory.) Corequisite: Registration in Mathematics 150.

115 GENERAL CHEMISTRY II 4 hours. Second semester
This course is a continuation of Course 101 and 111 and is comprised of a systematic study of the chemical elements. The descriptive chemistry contained in this course is correlated with the theoretical background gained in the previous semester. The laboratory program contains some equilibrium experiments, some examples of semimicro qualitative analysis, and a series of inorganic preparations. (3 hours lecture, 1 hour quiz, 1 hour laboratory lecture, and 3 hours of laboratory.) (Prerequisite: Course 101 or Course 111.)

141 QUANTITATIVE ANALYSIS 4 hours. Second semester
Lectures and laboratory experiments are designed to emphasize the role of chemical equilibrium in standard volumetric and gravimetric procedures. (3 hours of lecture, 1 hour quiz, and 6 hours of laboratory.) (Prerequisite: Course 111 or 115.)

151 QUANTITATIVE ANALYSIS I 4 hours. Second semester
This course is designed for Chemistry majors as well as students with a superior general chemistry background. The lectures are designed to emphasize the thermodynamic approach to chemical equilibrium as employed in analytical techniques. The student is given the opportunity to study equilibrium systems in the laboratory as well as quantitative techniques. Some modern instrumental techniques will be utilized. (3 hours lecture, 1 hour quiz, 1 hour laboratory lecture and 6 hours of laboratory.) (Prerequisite: Course 111.)

157 ORGANIC CHEMISTRY I 4 hours. First semester
This introductory course is designed for non-Chemistry majors and includes the discussion of the preparation, structure, and reactions of typical organic compounds. In the laboratory the methods of organic chemistry and the preparation of typical compounds are experienced. (3 hours of lecture, 1 hour quiz, and 5 hours of laboratory.) (Prerequisite: Course 115 or 151.)

159 ORGANIC CHEMISTRY II 4 hours. Second semester
This course is an extension of course 157. Among the classes of organic compounds discussed will be included the carbohydrates, amino acids, glycerides, and other natural products. (3 hours of lecture, 1 hour quiz, and 5 hours of laboratory.) (Prerequisite: Course 157.)

161 ORGANIC CHEMISTRY IA 4 hours. First semester
This course is designed for Chemistry majors as well as students with a superior General Chemistry background. The course concerns itself with the structures of organic compounds and the reaction mechanisms involved in their
preparation and reactions. The laboratory program involves the preparation and purification of organic compounds and particularly involves such laboratory instrumentation as gas chromatography and infrared spectroscopy as a means to this end. (3 hours of lecture, 1 hour quiz, 1 hour laboratory lecture, and 5 hours of laboratory.) (Prerequisite: Course 111 or 115.)

165 ORGANIC CHEMISTRY IIA
4 hours. Second semester
This course is an extension of course 161. (3 hours lecture, 1 hour quiz, 1 hour laboratory lecture, and 5 hours of laboratory.) (Prerequisite: Course 161.)

198 PHYSICAL CHEMISTRY I
3 hours. Second semester
The course primarily covers the laws of thermodynamics and their applications to physical and chemical processes. No laboratory. (3 hours lecture, 1 hour quiz.) (Prerequisite: Mathematics 211. Corequisite: Physics 172.) (Mathematics 212 is strongly recommended.)

Advanced Undergraduate Courses

200 PHYSICAL CHEMISTRY II
3 hours. First semester
A continuation of Chemistry 198 with emphasis on the rate processes and simple systems, elementary statistical mechanics and statistical thermodynamics. (Three hours lecture, one hour quiz.) (Prerequisite: Course 198.)

201 PHYSICAL CHEMISTRY LABORATORY I
1 hour. First semester
This laboratory course consists of practical applications of the principles of physical chemistry to specific systems. (5 hours laboratory.) (Prerequisite or corequisite: Courses 200, 151, 165.)

204 PHYSICAL CHEMISTRY III
3 hours. Second semester
A continuation of Chemistry 200 with emphasis on rate processes and kinetic theory, molecular spectroscopy and photochemistry as well as diffraction and structure determination. (Three hours lecture, one hour quiz.) (Prerequisite: Course 200.)

205 PHYSICAL CHEMISTRY LABORATORY II
1 hour. Second semester.
A continuation of Course 201. (5 hours laboratory.) (Prerequisite or corequisite: Course 201 and 204.)

251 ADVANCED QUANTITATIVE ANALYSIS
4 hours. First semester
Applications of instrumental methods to quantitative chemical analysis is the prime concern of this course. Lectures correlate the laboratory work with the theoretical aspects of the methods. More complex analysis of inorganic as well as organic samples are considered. The laboratory work is further concerned with the following: colorimetry, electroanalysis, polarography, vapor phase chromatography, ultraviolet and infrared spectrophotometry, nuclear magnetic resonance, etc. (3 hours lecture, 1 hour quiz, 6 hours laboratory.) (Prerequisite or corequisite: Course 201.)

320 INORGANIC CHEMISTRY I
3 hours. Offered through the University College. Autumn
A treatment of modern theories of electronic structure, bonding, and related topics which form the basis for the systematization of inorganic chemistry. (2 lecture periods, no laboratory.) (Prerequisite: Course 200.)

321 INORGANIC PREPARATIONS
2 hours. Offered through the University College. Spring
The preparation of a number of inorganic compounds. Lectures will cover laboratory technique and reaction mechanisms. (1 hour tutorial, 5 hours laboratory.) (Prerequisite: Course 320 or Course 204.)

322 INORGANIC CHEMISTRY II
3 hours. Offered through University College. Spring
A systematic description of the chemistry of the elements and their compounds with an emphasis on bonding and molecular structure. (2 lecture periods, no laboratory.) (Prerequisite: Course 320.)

330 SYNTHETIC ORGANIC REACTIONS
3 hours. Offered through University College. Spring
This course deals with the chemistry and techniques involved in the synthesis of organic compounds. (2 lecture periods, no laboratory.) (Prerequisite: Course 159.)
340 BIOCHEMISTRY I 3 hours. Offered through University College. Autumn
This course deals with the study of 1) the nature of the chemical constituents
of living matter; 2) the functions of and transformations of these chemical entities
in biological systems; and 3) the chemical and energetic changes associated with
these transformations in the course of the activity of living matter. (2 lecture
periods, no laboratory.) (Prerequisite: Course 159.)

342 BIOCHEMISTRY II 3 hours. Offered through University College. Winter
This course is a continuation of Course 340. (2 lecture periods; no labora-
tory.) (Prerequisite: Course 340.)

347 QUALITATIVE ORGANIC ANALYSIS 3 hours. Second semester
The characterization of pure organic compounds and the separation of mix-
tures are discussed in lecture and applied in the laboratory. (1 lecture period, 6
hours laboratory.) (Prerequisites: Courses 151 and 165.)

350 ADVANCED ORGANIC CHEMISTRY I
3 hours. Offered through the University College. Autumn
The study of modern organic theory, involving reaction mechanisms, reso-
nance, aromaticity, etc., and the application of these principles to the chemistry of
aliphatic and aromatic compounds. (3 lecture hour, no laboratory.) (Corequisite:
Course 200.)

352 ADVANCED ORGANIC CHEMISTRY II
3 hours. Offered through the University College. Winter
A continuation of Course 350. (3 lecture hours; no laboratory.) (Prerequisite:
Course 350.)

370 ADVANCED PHYSICAL CHEMISTRY I
3 hours. Offered through the University College. Autumn
The study of thermodynamics, presenting the logical foundations and relation-
ships of the functions and applying the thermodynamic principles to practical
problems. (3 lecture hour, no laboratory.) (Prerequisite: Course 204.)

372 ADVANCED PHYSICAL CHEMISTRY II
3 hours. Offered through the University College. Winter
A continuation of Chemistry 370 with emphasis on chemical kinetics and
reaction mechanisms. (3 lecture hour, no laboratory.)

385 RADIOCHEMISTRY AND RADIOISOTOPE TECHNIQUES
3 hours. Second semester
The fundamentals of radiation detection and instrumentation, radiological
safety, and radiotrace research techniques. (2 hours tutorial, 6 hours labora-
tory.) (Prerequisites: Courses 151 and 165; Physics 172.)

397 SENIOR RESEARCH I 1 hour. Each semester
A program of experimental research in analytical, inorganic, organic, or
physical chemistry. Admission is by invitation of the faculty. Applications should
be made to the Chairman and faculty research advisor by the end of the second
semester of the junior year. (1 hour tutorial—laboratory by arrangement.) (Prereq-
suisite: Course 205.)

398 SEMINAR IN CHEMISTRY 1 hour. Offered through the University College. Winter-Spring
Seminars are given by students on topics from the current chemical literature.
This course may be repeated for credit if desired. (Prerequisite: Course 205 or
with permission of the instructor.) (1 hour seminar. No laboratory.)

399 SENIOR RESEARCH II 1 hour. Second semester
The continuation of Course 397. (1 hour tutorial—laboratory by arrange-
ment.) (Prerequisite: Course 397.)

FACULTY

Fred W. Breitfeld, III, Ph.D., Chairman and Assistant Professor
William R. Pasternicky, Ph.D., Professor
Robert C. Miller, Ph.D., Associate Professor
Franklin S. Froh, Ph.D., Associate Professor
Robert Schwane, C.M., Ph.D., Associate Professor
Juris G. A. Anysas, Ph.D., Assistant Professor
Avrom A. Blumberg, Ph.D., Assistant Professor
Mary E. Code, M.S., Instructor

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ECONOMICS

Studies in the Department of Economics have for their purpose: a) to provide preliminary training to students who wish to make economics their profession as teachers, in government service, or in the service of private firms; b) to help the student appraise the impact of business decisions on the social economy as a whole under the double aspect of economics and of strict justice; c) to aid students in developing those tools of analysis which are indispensable for intelligent political decisions; d) to test ceaselessly the explanatory value of economic doctrines, seeking to advance our understanding of economic reality.

MAJOR CONCENTRATION. Prerequisite: Economics 103. Required: 104, 205, 306 and additional courses to bring the total credit in Economics to a minimum of 30 semester hours. These additional courses must be Economics courses above 200. The student must also take at least one course in Sociology and Statistics. The Department recommends strongly that, at a minimum, economics majors take Mathematics 130 and 131.

MINOR CONCENTRATION. Prerequisite: Economics 103. Required: 104 and additional courses to bring the total credit in Economics to a minimum of 15 semester hours.

Lower Division Courses

103 PRINCIPLES I. INTRODUCTION TO ECONOMICS

3 hours. Each semester

This first course in economics is designed to acquaint the student with the basic forces underlying the economic organization of society. It provides the fundamental tools necessary for understanding the operation of the individual business firm and the national economy. It examines the major economic problems facing society, with particular emphasis being given to the analysis of national income.

104 PRINCIPLES II. PRICING AND INCOME DISTRIBUTION

3 hours. Each semester

This course studies the theory of the determination of prices under various assumed and real market conditions, and the distribution of income in the form of wages, interest, rent and profits. (Prerequisite: Course 103.)

Advanced Undergraduate Courses

205 INTERMEDIATE ECONOMIC THEORY

3 hours. Second semester

A detailed analysis of micro-economic theory. Both marginal analysis and indifference curve analysis are treated. The basic principles of production and pricing are examined. Emphasis is placed on pricing under various forms of imperfect competition, and the results of theory are constantly appraised in the light of economic realities. The implications of oligopolistic pricing for public policy are investigated. (Prerequisite: Course 104.)

215 INTRODUCTION TO MONEY AND BANKING

3 hours. Second semester

This course covers the origin and development of the various forms of money now in use, the analysis of credit, a discussion of the relations that now exist between banks, and discussion of governmental regulation of banking. The Federal Reserve System is studied from both the legal and functional point of view. The present position of the banking system relative to the possibilities of effective monetary policy receives special scrutiny. (Prerequisite: Course 104.)

216 EUROPEAN ECONOMIC HISTORY

3 hours. First semester

This course deals with the economic development of Europe. The following historical systems are compared and contrasted: Roman state socialism, Early Medieval manorialism, the municipal guild system of the Later Middle Ages, Mercantilism, 19th century Liberalism, and Neo-Mercantilism. (Prerequisite: Junior standing or permission.)
217 AMERICAN ECONOMIC HISTORY 3 hours
This course points out the economic history of the American people in an analytical manner and traces the development of our economic institutions from the colonial period to the present time. (Prerequisite: Junior standing or permission.)

240 DEVELOPMENT OF ECONOMIC THOUGHT 3 hours. Second semester
An examination of the great ideas in the history of economic doctrine, with emphasis on those currents of thought which lead to modern economic theory and those which have conditioned the economic development of the Western World. The development of economic doctrine is traced from the Physiocrats through the Classicists and to such important contemporaries as Keynes and Schumpeter. The attempt will be made to show that the history of economic doctrines evidences progress in "correct" theorizing. (Prerequisite: Course 104.)

306 NATIONAL INCOME ANALYSIS 3 hours
A study of economic aggregates. The determinants and statistical measurement of total income, output, and employment are explained. The analytical tools of Keynesian theory are critically examined and current controversies are investigated. The relationship of fiscal and monetary policy to economic stability is studied and appropriate forms of public policy are examined. (Prerequisite: Course 104.)

318 LABOR ECONOMICS AND ORGANIZATIONS 3 hours
This course examines historically and theoretically the principal problems confronting labor groups, with particular reference to the dynamic economy of the United States. As critical norms of evaluation the Papal social encyclicals are closely studied. (Prerequisite: Course 104.)

359 THE THEORY OF ECONOMIC DEVELOPMENT 3 hours
A balanced coverage of the major aspects of the theory of economic development. The course includes an introduction to the more important theories of economic growth, as well as explanations of the role of land, capital, labor and technology in the development process. (Prerequisite: Course 104.)

360 ECONOMICS OF UNDER-DEVELOPED COUNTRIES 3 hours
An introduction to the analytic skills of the economist applied to the special problems of under-developed countries. The view that development requires authoritarian control by the state is contrasted with the position that it may be accomplished by private economic decision-making. (Prerequisite: Course 104.)

361 INTERNATIONAL TRADE 3 hours. First semester
A study of international trade theory and policy. It includes an analysis of the balance of payments, the foreign exchange and market, and the foreign trade multiplier. It considers such problems as the dollar shortage and the American question of free trade protection. (Prerequisite: Course 104.)

375 INTRODUCTION TO QUANTITATIVE METHODS IN ECONOMICS 3 hours
A course designed to introduce the student of economics to the application of mathematics, probability theory and statistical inference to the measurement of microeconomic and macroeconomic relationships. Some knowledge of intermediate microeconomic and macroeconomic theory is a desirable prerequisite. (Prerequisites: Economics 104 and Statistics.)

399 READING AND RESEARCH 3 hours. By arrangement
This course is designed to allow exceptional students, majoring in economics, to make an intensive study of a specialized area to be determined by the student and professor. The student is to study privately with the professor. (Prerequisite: Permission of the department.)

FACULTY
WILLIAM A. HAYES, Ph.D., Chairman and Professor
WILLIAM R. WATERS, Ph.D., Professor
JAMES J. DIAMOND, Ph.D., Associate Professor
ADOLPH E. MIRK, M.A., Assistant Professor

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ENGLISH

The courses in the English Department are intended to enable the student to attain correctness and facility in the use of the English language, to acquaint him with significant personalities and documents in the history of English literature, to help him read literary material with critical appreciation and evaluation of ideas, forms and style, and to prepare him for graduate study and professional work in the field of English.

Programs of Concentration

MAJOR CONCENTRATION. Prerequisite: English 101, 102, either 203 or 205 or their equivalent. Required: English 204; three English Literature courses to be taken from the following periods. (No two of these three required courses may be taken from the same period.) Medieval Period: 310 and 316; Renaissance Period: 320, 321, and 326; Restoration-Eighteenth Century Period: 330, 331, and 336; Nineteenth Century Period: 342 and 343; Modern Period: 350 and 351. Two American Literature courses: choice of 361, 362, or 363. One other advanced undergraduate course. (English majors in the School of Education will take English 301 as their elective.)

Lower Division Courses

101 COMPOSITION I 3 hours. Each semester
A course designed to improve the student's facility in the reading and writing of exposition and reasoned discourse. Description and narration are included as they relate to the first two forms. Investigative techniques and the writing of reports are integral parts of the course.

102 COMPOSITION II 3 hours. Each semester
A course designed to develop further the reading and writing habits which the student formed in English 101. Assigned readings in this second course are more mature in content and style. The selections challenge the student's ability to read for interpretation and evaluation. The written assignments require mastery of the techniques of library research, provide practice in the critical judgment of literary materials, and encourage originality in thought and expression.

203 INTRODUCTION TO TYPES OF LITERATURE 3 hours. Each semester
A study of poetry, fiction, and drama with emphasis on the techniques of each form; assigned readings. (Prerequisite: Course 102.)

204 INTRODUCTION TO THE PLAYS OF SHAKESPEARE 3 hours. Each semester
A survey of the company, theatre, and audience of Shakespeare's day; a discussion of his dramatic techniques; reading and interpretation of selected comedies and histories.

205 INTRODUCTION TO WORLD LITERATURE 3 hours. Each semester
Representative types of literature chosen from literary traditions of Western Civilization. This course is an alternate requirement to 203. The student, however, may not take both courses as requirements. (Prerequisite: Course 102.)
212 NEWS REPORTING AND NEWSWRITING 3 hours. First semester
Study of the evolution of the news article. Practice in gathering and presenting the news story. Students receive assignments and obtain practical experience in covering and writing various news stories.

214 ADVANCED REPORTING AND NEWSWRITING 3 hours. Second semester
Practice in techniques of handling the more complicated news stories; the "developing" and "running" story. Gathering information from various important official and non-official news sources; covering the "beats." (Prerequisite: Course 212.)

Advanced Undergraduate Courses

301 ADVANCED THEORY AND PRACTICE OF COMPOSITION 3 hours. First semester
A course dealing with interdependence of rhetoric, grammar, logic, semantics, psychology and criticism in the communication of ideas. This course is required for English majors in the School of Education.

302 CREATIVE WRITING 3 hours. Second semester
Practice in short story writing and study of professional markets.

310 ENGLISH LITERATURE, BEGINNINGS TO 1500 3 hours
A critical study of early English (600 to 1100). National and Christian Literature, and representative examples of authors and writings from the Middle English period (1100 to 1500) with particular emphasis on the periods as formative time of English Literature.

316 ENGLISH MEDIEVAL DRAMA 3 hours
A period study and discussion of the liturgical origins of the drama, the mystery and miracle plays, and the interludes.

320 ENGLISH LITERATURE, 1500-1660 3 hours. Second semester
A survey of major and minor writers within the period, and a study of literary, philosophical, and social ideas embodied in their work.

321 SPENSER AND MILTON 3 hours. First semester
A concentrated study of these two writers and their relationships to other writers of their time.

326 ELIZABETHAN AND JACOBEAN DRAMA 3 hours
A study and discussion of the most important plays of the period, exclusive of Shakespeare.

330 ENGLISH LITERATURE, 1660-1800 3 hours
A survey of the major and minor writers within the period, and a study of the literary, philosophical, and social ideas embodied in their work.

331 SWIFT, POPE AND JOHNSON 3 hours. First semester
Concentrated study of these three writers and their relationships to other writers of their time.

336 RESTORATION AND EIGHTEENTH-CENTURY DRAMA 3 hours
A study and discussion of the significant dramatists of the period and of their plays.

342 MAJOR BRITISH WRITERS OF THE ROMANTIC PERIOD 3 hours. Second semester
Concentrated study of Wordsworth, Coleridge, Shelley, Keats, Byron.

343 MAJOR BRITISH WRITERS OF THE VICTORIAN PERIOD 3 hours. First semester
A concentrated study of the significant authors and movements, exclusive of the novelists. Arnold, Ruskin, Newman, Tennyson, and Browning.

345 THE NINETEENTH-CENTURY BRITISH NOVELISTS 3 hours. First semester
An analysis of the most significant novels of Austen, Scott, Dickens, Thackeray, Eliot, Meredith, and Hardy.
ENGLISH LITERATURE SINCE 1900 3 hours Second semester
Representative readings from modern English poetry and prose, exclusive of the novel.

MODERN MAJOR BRITISH AND AMERICAN POETS 3 hours
A study of the significant poets of the period. Included among other writers, Yeats, Hopkins, T. S. Eliot, Sandburg, Frost, and Tate.

THE MODERN NOVEL 3 hours, Second semester
A study of the significant changes and developments, both in subject matter and in literary technique, among modern novelists.

THE MODERN DRAMA 3 hours
Tendencies of modern European and American drama. An evaluation of the style and contribution of the significant dramatists of Europe and America. Representative readings from their works.

MAJOR AMERICAN WRITERS BEFORE THE CIVIL WAR 3 hours, First semester
A study of the significant writers within the period, and an analysis of the literary, philosophical, and social ideas embodied in their works. Included among other writers, Poe, Hawthorne, and Melville.

AMERICAN LITERATURE FROM 1860 TO 1914 3 hours
A study of the significant writers within the period, and an analysis of the literary, philosophical, and social ideas embodied in their works. Included among other writers, Whitman, Twain, Howells, James, Dickinson, Norris, and Crane.

AMERICAN LITERATURE, 1914 TO PRESENT 3 hours, Second semester
A study of the important writers, types, and tendencies in American literature since the first World War.

CRITICAL APPROACHES TO LITERATURE 3 hours, Second semester
A definition of the types of literary criticism. A discussion of the qualities of the literary critic. Applications of the principles of literary criticism to poems, plays, short stories, and novels.

WORLD LITERATURE: SELECTED MASTERPIECES 3 hours
Readings in translation from the poetry and prose of the western world's greatest writers. From Homer and Virgil to Goethe and Tolstoy.

FACULTY

John P. Masterson, Ph.D., Chairman and Associate Professor
LaVon Rasco, Ph.D., Associate Professor
Robert A. Sulley, Ph.D., Associate Professor
Frederick I. Tietze, Ph.D., Associate Professor
John Smith, C.M., A.M., Associate Professor
John Lewis, Ph.D., Assistant Professor
Lawrence A. Ragin, A.M., Assistant Professor
Stanley J. Damberg, A.M., Instructor (On leave)
Zapata Dorinson, A.M., Instructor
Louise Erlich, M.A., Instructor
Terrence McNally, M.A., Instructor
Miss Margaret M. Dougherty, A.M., Lecturer
FINE ARTS

Program of Minor Concentration

Required: Fine Arts 201, 205 and additional courses for a minimum of fifteen semester hours.

110 DRAWING 3 hours. First semester
Fundamentals of graphic expression: development of form and space in line, value and texture through a variety of media and techniques.

115 PAINTING 3 hours. Second semester
Creative and individual expression through painting media, color and composition, experimentation in techniques.

201 ART APPRECIATION 3 hours. First semester
The understanding and appreciation of visual art through one's own discoveries.

203 HISTORY OF ART 3 hours. Second semester
This course is designed for the understanding and appreciation of the visual arts of the past and the present. It aims to acquaint the student with the works of art that are most enduring in the realm of painting, architecture and sculpture.

204 PREHISTORIC AND PRIMITIVE ART 3 hours
Exploration of painting and artifacts of early and contemporary aboriginal cultures.

205 UNDERSTANDING MUSIC 3 hours. Second semester
The art of music through civilization. The study of the development of melody, instrument, tone color, and musical form, enabling the student to understand the materials of music as they have been employed by musicians and composers up to the present day.

210 ANCIENT AND MEDIEVAL ART 3 hours
The history of Western art from ancient to the Gothic period.

215 RENAISSANCE, BAROQUE, AND ROCOCO ART 3 hours
The history of Western art from early Renaissance to the Rococo period.

218 HISTORY OF ART—19th AND 20th CENTURIES 3 hours
Analyses in the History of Ideas.

220 GRAPHIC WORKSHOP 3 hours
Fundamentals of printing techniques; offset, wood cut, engraving, etc.

Music courses may be selected from the following or from other offerings listed under the Department of Music:

MED 373 OPERA WORKSHOP 1 Semester hour. Each semester. (2 class hours.)
A "working" laboratory course in organization and directing vocal music ensembles in dramatic productions. Techniques studied and tried in performance. Emphasis on opera in English. (Prerequisite: Junior standing.)

MTH 113 FUNDAMENTALS OF MUSIC 3 hours. Each semester
The course is designed to provide the college student with a musical foundation. The study of notation, rhythm, scales, chords, musical terms. (Prerequisite: none.)

FACULTY

MORRIS BARAZANI, Instructor, Artist in Residence
RONALD AHQUISTROM, B.F.A., Instructor
LEON STEIN, Ph.D.
ANNEMARIE GERTS, Mus.B.
SEYMOUR SAXON, Mus.M.
GEOGRAPHY

The geography curriculum serves the following purposes: (1) provides the general student with one increasingly important ingredient of a liberal education; (2) gives the student wishing to major in geography, or to go on to graduate work, an introduction to the scope, tools, techniques, and significance of the subject; (3) assists especially students of those departments where a knowledge of geographical distributions and relationships is necessary to the proper understanding of their fields of interest; and (4) meets the need of prospective teachers for required course work in the social sciences.

Programs of Concentration

MAJOR CONCENTRATION. Prerequisites: Geography 105, 125, 225, 340 and 390. Required: five additional courses selected in consultation with the Department Chairman. Geography 350 (Education 350) is suggested to all who plan to teach geography and/or social studies in the primary or secondary schools. Psychology (Sociology) 242 is suggested to all who plan to carry on graduate study, especially those interested in economic and urban geography.

MINOR CONCENTRATION. A minimum of fifteen semester hours of credit is required. Prerequisites: Geography 101, 105 and 201. One of the two additional courses might be Geography 350 (Education 350) if the student plans to teach geography and/or social studies in the primary or secondary schools.

Lower Division Courses

101 INTRODUCTION TO GEOGRAPHY
3 hours. Second semester
Study in this course focuses upon the earth as the home of mankind by providing a framework for observing variety and change in man's earthly habitat. It points out and explains the distributional relationships existing between human settlement and the arrangement of natural environmental factors (e.g., weather and climate, landscapes, soils, flora and fauna) over the face of the earth.

105 ECONOMIC GEOGRAPHY OF A CHANGING WORLD
3 hours. Second semester
In this course the student acquires an understanding of the various natural resources at man's disposal and the conditions under which their utilization may be achieved. There is constant emphasis upon the United States but the course carefully considers the differences in basic economic development in the various countries and regions as well as the nature of the commerce resulting from such differences.

124 GEOGRAPHY OF THE UNITED STATES AND CANADA
3 hours. First semester
At the end of the era of free land and abundant natural resources, the student is concerned with the physical, economic and human geography of the U.S.A. (including Alaska and Hawaii) and Canada. It stresses the problems of the people of the various regions as well as their contribution to the national economy.

125 ELEMENTS OF GEOLOGY
3 hours. Each semester
A lecture course concerned with a study of the natural forces which shape the physical environment in which we live; studies of earth materials (rocks and minerals) and earth processes; and a historical perspective of the earth's past. No laboratory. (This course, with Geography 225, satisfies State certification requirements for the natural sciences.)

201 GEOGRAPHY OF WORLD AFFAIRS
3 hours. Offered through University College
An understanding of the international problems of today based on analyses of their geographic backgrounds. This course is designed to focus the interest of the student on those world events of current interest that are significant to the peace and prosperity of the United States. (Recommended for students without advanced course work in regional geography.)

225 WEATHER, CLIMATE, AND MAN
3 hours. Each semester
The study of atmospheric elements with special reference to their practical application in weather forecasting. Special attention is given to the origin of weather and its component parts of temperature, air pressure, humidity, precipi-
tion and air masses. The final half of the course is concerned with the characteristics and distribution of major world climates with special emphasis on the relationship between climate and human activity. (This course with Geography 125 may be used to satisfy the State certification requirements for the natural sciences.)

**Advanced Undergraduate Courses**

301 **INTRODUCTION TO OCEANOGRAPHY**

3 hours. Offered through University College

This is a basic course concerned with the study of the seas. Among the topics considered are: the formation of the oceans, their physical and chemical composition, the topography of the ocean floor, the nature and movements of tides and currents, the biological resources of the oceans, and the political and economic significance of the seas. Open to all students. Offered jointly with the Department of Biological Sciences.

311 **THE GEOGRAPHY OF THE PACIFIC**

3 hours

An evaluation of the Pacific island groups focuses chiefly on Australia, New Zealand, Indonesia, the Philippines and New Guinea, also Hawaii, with emphasis upon the importance to the United States of their strategic location, population problems, and the current state of development of their natural resources.

313 **AFRICA, A CONTINENT IN TRANSITION**

3 hours. Offered through University College

American concern in the world's underdeveloped areas is stressed in this study. The course reviews the available resources of the continent and surveys the obstacles which stand in the way of their development. It will be of value to all who seek an understanding of current African problems—whether economic, racial or political—for its all-embracing consideration of the manner in which man's activities are influenced by geographical influences.

314 **THE GEOGRAPHY OF THE MIDDLE EAST**

3 hours

A study of the present importance of the Arab nations of Asia, Israel, Iran, Afghanistan, India, Pakistan and Ceylon, with reference to such geographic factors as climate, landscape, natural resources, composition of population concentrations, and economic development.

315 **THE GEOGRAPHY OF EASTERN ASIA**

3 hours

The ever-increasing importance of the nations of Eastern Asia—China, Japan, Taiwan, Korea, and the countries of southeastern Asia—merits attention to their physical, human, economic and political geography.

316 **THE GEOGRAPHY OF WESTERN EUROPE**

3 hours. First semester

The geographic study of each of the nations of Northwestern Europe and the Atlantic, phsyicographic and cultural influences which are responsible for their present agricultural and industrial activities. The problems of population density and composition, boundary friction, and maritime expansion will be given special attention, particularly with respect to the United Kingdom, Germany and France.

317 **THE GEOGRAPHY OF EASTERN EUROPE AND THE SOVIET UNION**

3 hours. Second semester

A geographic interpretation of the U.S.S.R. and the countries of the eastern Mediterranean, the Danube Basin and Eastern Europe, emphasizing recent changes in their economic structures, population compositions and international relationships.

319 **THE IBERIAN PENINSULA**

3 hours. Offered through University College

A comprehensive study of Spain and Portugal from the viewpoint of the social scientist. This area study stresses the geography, history, cultural anthropology, international relations and overseas expansion of these two nations with considerable emphasis upon their present geo-political and economic problems. Special lectures are devoted to the culture of the Iberian Peoples as expressed by their art, architecture, music, literature, and religion.

320 **GEOGRAPHY OF ILLINOIS**

3 hours

A detailed regional study of geographical phenomena within the state of Illinois. The course considers the complex of cultural and physical features—their nature, distribution, arrangement and inter-relations—which are significant to the people occupying this region. The problems and prospects of all sections of the state are considered, including certain factors significant for an understanding of the urban and industrial development in the metropolitan areas.

321 **THE GEOGRAPHY OF THE CHICAGO METROPOLITAN AREA**

3 hours. Offered through the University College

An appraisal of those geographic factors of greatest significance with respect
to the present and future economic importance of Chicago and its environs. Field trips make possible on-the-spot study of the Chicago port district, varying housing conditions, suburban growth and other local phenomena of major importance in analyzing Chicago's urban geography. (Transportation fee required.)

322 THE GEOGRAPHY OF EASTERN UNITED STATES AND CANADA
3 hours. Offered through University College

An analysis of the influence of the natural environment in the spread of settlement and the location of major regions of industrial, agricultural and commercial activity in the eastern United States and Canada.

323 THE GEOGRAPHY OF WESTERN UNITED STATES AND CANADA
3 hours. Offered through University College

Similar in purpose to Course 322 but concentrating upon the western United States and Canada, also Alaska and Greenland.

326 THE GEOGRAPHY OF THE CARIBBEAN
3 hours
A regional study of Mexico, Central America and the West Indies, with special emphasis upon the three countries of most importance to the U. S.—Mexico, Cuba, and Puerto Rico. The course aims to bring about a fuller appreciation of the influence of such physical factors as climate, physical landscape and vegetation in determining the settlement and economies of this region.

327 THE GEOGRAPHY OF SOUTH AMERICA
3 hours. Second semester
A geographic study of the natural environment, population characteristics, agricultural and industrial production and political relationships of the South American countries.

333 THE CITY: PROBLEMS AND PLANNING
3 hours. Offered through University College

An analysis of how the city as a geographic form has developed, the problems (i.e., transportation, urban sprawl, industrial development) that occur as its form becomes more complex, and the development of City Planning as a means for solving these problems.

335 GEO-POLITICS
3 hours. First semester
This course, analytical in nature, portrays the interrelationship and the blending of political and geographical factors in global power relations. Spatial human and cultural, and economic factors are appraised and considered. The study of political geography aims to make clear the importance and magnitude of the problems arising from such an interrelationship.

340 MAPS AND MAN
3 hours. Offered through the University College
Maps, globes and charts have become vitally important to those engaged in modern commerce, military tactics, education and government. Through this course the student learns not only of the significant developments in man's efforts to make maps but also how to recognize their qualities and value. The ability to understand and interpret the most common types of maps, charts and globes is stressed.

350 THE TEACHING OF GEOGRAPHY
3 hours. First semester
An investigation of the role of geography as the sole subject in the school curriculum designed to promote an integrated understanding of man and his natural environment. Emphasis is placed on the skills, understandings, and attitudes imparted in teaching geography as a relational and interpretative subject in the elementary and secondary schools of the United States. (This course may be taken for education credit as Education 350.)

390 THE NATURE AND DEVELOPMENT OF GEOGRAPHIC THOUGHT
3 hours
An investigation into the theory and methodology which has guided the direction of geographic activity from ancient to contemporary time, with emphasis on the contributions of outstanding geographers. (Prerequisite: Junior or Senior standing and consent of the Chairman.)

399 READING AND RESEARCH
3 hours
A course designed to encourage exceptional students majoring in geography to make an intensive study of an area or topic of special interest. Through supervised reading and research the student is allowed to work with the instructor in private conferences. (Prerequisite: Junior or Senior standing and consent of the Chairman.)

FACULTY

RICHARD J. HOUE, PH.D., Chairman and Professor
ALAN A. CLAIR, PH.D., Assistant Professor
RICHARD S. JACKSON, JR., M.A., Instructor
GERALD W. RUPKA, M.A., Instructor
HISTORY AND
POLITICAL SCIENCE

The purpose of courses offered by this department is to provide a broad and critical acquaintance with the past experience of human society as well as to afford the opportunity to examine critically the political theories and structures upon which society has been built. This is designed both as an end in itself and also as an aid to the student in developing to the best of his own ability the attitudes, ideals, and critical habits inherent in the concepts of Christian culture, good citizenship, and balanced personality. More specifically, the survey courses (101 through 105) provide some general orientation in the most salient historical and political developments, interpretations, and literature. Intermediate and advanced undergraduate courses (201 through 399) offer through lectures and the reading of primary and secondary materials opportunities to become better acquainted with more detailed historical and political data; discussion of the interpretations and philosophies of important historians and political scientists; and practice in collecting and presenting historical and political materials.

HISTORY

Program of Major Concentration

PROGRAM I. This program is designed to meet the needs of students planning to do graduate work in the field of history, as well as students possessing a general interest in history. A minimum of thirty hours is required. Required: History 101, 102, 104 and 105 (twelve hours). In addition, the student must complete six courses (eighteen hours) above the 200 level. Of these six courses, four must be in American or European history and two in the alternate field.

PROGRAM II. This program is designed to meet the needs of prospective secondary school teachers. A minimum of thirty-three hours is required. The mandatory courses are: History 101, 102, 104, 105 (twelve hours). In addition, the student must complete seven courses (twenty-one hours) above the 200 level. Of these seven advanced courses, two must be in European History (six hours) and three must be in United States History (nine hours). Two courses may be taken at the election of the student. Of the advanced courses in United States history, two courses should be taken under a Political Science registration from among those courses carrying alternate Political Science-History credit. Students seeking certification in history in the Chicago Public School System must also take three hours of Political
Science (103 or 104) to bring their total credit in Political Science to a total of nine hours.

European History (12 hours): 101, 102, two courses above the 200 level.
United States History (15 hours): 104, 105, three courses above the 200 level. Two courses should carry Political Science credit.
Optional courses (6 hours): In U. S., European, or other areas above the 200 level.
Political Science (3 hours): Political Science 103 or 104.

Program of Minor Concentration

For students in the arts and sciences. A minimum of fifteen hours is required. Prerequisites: History 101 and 102 or History 104 and 105. Required: Additional courses in American or European history above the 200 level to fulfill the fifteen hour requirement. It is mandatory that the student take at least one course in European history and one in American history at this level.

For prospective secondary school teachers. A minimum of eighteen hours of history is required, of which nine hours must be in American history and nine hours in European. As of July 1, 1963, the required minimum will be increased to twenty-four hours, but the American and European requirements will remain unchanged.

Lower Division Courses

101 A SURVEY OF EUROPEAN CIVILIZATION, 500-1600 3 hours
This is the first half of an introductory course covering the barbarian invasions, the early medieval empires, feudal society, rise of nationalism, renaissance and reformation, and the establishment of absolute monarchies in western Europe.

102 A SURVEY OF EUROPEAN CIVILIZATION, SINCE 1660 3 hours
This is the second half of the introductory course. It considers the national states in the 18th century, overseas expansion, intellectual revolution, French Revolution and Napoleonic era, growth of nationalism and liberalism, the industrial revolutions and imperialism, the two world wars, and modern society.

104 GROWTH OF THE AMERICAN NATION TO 1865 3 hours
This is the first half of an introductory survey covering the period of exploration and colonization, the Revolution, adoption and content of the Federal Constitution, development of national feeling, and sectional conflict through the Civil War.

105 MAKING OF MODERN AMERICA SINCE 1865 3 hours
The reconstruction period, development of modern industry and organized labor, emergence of the United States as a world power, and modern American problems.

Advanced Undergraduate Courses

202 ANCIENT HISTORY I 3 hours
A study of the ancient Mediterranean World from the Pre-Mycenaean period to the death of Alexander the Great with emphasis upon the political and cultural development of the Greek City State.

203 ANCIENT HISTORY II 3 hours
A study of the development and expansion of Rome from the founding of the city to the reign of Justinian.

306 HISTORY OF LATIN AMERICA: COLONIAL PERIOD TO 1826 3 hours
Covers the period from the first voyage of Columbus to the liberation. Special
emphasis is given to the Spanish colonial institutions and the position of the Church as an agency in the Spanish colonial system.

307 HISTORY OF LATIN AMERICA: NATIONAL PERIOD SINCE 1820
3 hours
The development of the governments and society of the Latin-American states and their relations with other nations of the world.

320 EARLY MEDIEVAL HISTORY, 284-1000
3 hours
Breakup of the Roman Empire, growth of Christianity, Byzantium, spread and achievement of Islam, the Teutonic kingdoms, papal state, collapse of the Carolingian Empire, the Slavic world, feudalism and the establishment of the feudal states.

321 LATER MEDIEVAL HISTORY, 1000-1450
3 hours
The investiture controversy, the crusades, 12th century Renaissance, the politics of the feudal states, the medieval papacy, states of eastern Europe, rise of urban life, transition to the modern age, decline of the influence of the Church.

330 HISTORY OF THE RENAISSANCE AND REFORMATION 1450-1648
3 hours
A detailed discussion of the significant religious, cultural, economic, and political movements of the early modern period.

331 OLD REGIME IN EUROPE, 1648-1789
3 hours
A general study of the principal developments of the period, with emphasis upon the growth of political institutions and their relationship to religious and cultural change.

332 FRENCH REVOLUTION AND NAPOLEON, 1789-1815
3 hours
Political and economic failure of the Old Regime, influence of the philosophers, the rise and fall of revolutionary idealism, the spread of revolutionary principles, the development of imperialism, dictatorship under Napoleon, and the settlement of Europe at the Congress of Vienna.

333 EUROPE FROM METTERNICH TO BISMARCK, 1815-1870
3 hours
The decline of the aristocratic-clerical order, the emergence of capitalism, the appearance of liberal states, and the rise of nationalism in Italy and Germany.

334 EUROPE IN THE AGE OF GERMAN ASCENDANCY, 1870-1914
3 hours
Continental culture, development of imperial rivalries, failure of internationalism, and the coming of the first World War.

335 EUROPE SINCE 1914
3 hours
A study of the main currents of international affairs during the period, and domestic problems of the leading states with emphasis on the dynamics of power politics.

334 HISTORY OF RUSSIA
3 hours
Introduction to the medieval background, the emergence of modern Russia under Peter the Great and Catherine, 19th century ascendency, formation of the radical tradition, Bolshevik revolution and the communist state, second World War, Russia's place in the contemporary world.

337 HISTORY OF SPAIN
3 hours
A study of the reconquest, consolidation, rise of empire, decline, the republics, Civil War and the Franco regime with emphasis upon Spain's political economic and religious role in the modern world.

360 HISTORY OF THE CATHOLIC CHURCH
3 hours
A general survey of Church history. Origin and expansion in the Roman Empire, the Fathers and the papacy, barbarian impact, medieval reformation, conciliarism, Protestant revolt and Catholic reform. Missions, Enlightenment, conflict with liberalism, nationalism, communism, and the Church in America.

371 COLONIAL FOUNDATIONS OF AMERICAN HISTORY, 1492-1783
3 hours
An analysis of the political, social, and economic developments that led to the formation of the United States.
372 HISTORY OF THE UNITED STATES: SECTIONALISM AND REFORM, 1783-1860 3 hours
The historical forces that led to the adoption of the Constitution of the United States and their developments to the Civil War.

373 HISTORY OF THE UNITED STATES: CIVIL WAR AND RECONSTRUCTION, 1860-1877 3 hours
The causes of the war, its development, and the major problems of the peace.

374 HISTORY OF THE UNITED STATES: EMERGENCE OF MODERN NATIONALISM, 1877-1914 3 hours
New culture patterns, political party baules, growth of big business and organized labor, and world outlook.

375 RECENT HISTORY OF THE UNITED STATES SINCE 1914 3 hours
A general description of the main political, social, economic, and foreign problems of the period.

381 CONSTITUTIONAL HISTORY OF THE UNITED STATES TO 1860 3 hours
Colonial governments and their relations with the Crown; constitutional aspects of the Revolution; development of state governments; framing and adoption of the Constitution; and growth of the Federal judiciary. (Prerequisite: Sophomore standing.) (This course may be taken for Political Science credit.)

382 CONSTITUTIONAL HISTORY OF THE UNITED STATES SINCE 1860 3 hours
Arguments on the nature of the Union and secession; constitutional aspects of Reconstruction; interpretations of the Fourteenth Amendment; and movements for judicial reform. (Prerequisite: Sophomore standing.) (This course may be taken for Political Science credit.)

383 UNITED STATES FOREIGN RELATIONS, 1783-1860 3 hours
The development of basic American foreign policies during the formative period from the Confederation to the Civil War. (This course may be taken for Political Science credit.)

384 UNITED STATES FOREIGN RELATIONS, 1860-1914 3 hours
A study and analysis of the diplomacy of the Civil War, of the genesis of American imperialism, and of the new position of the United States in World Affairs in the opening years of the twentieth century. (This course may be taken for Political Science credit.)

385 UNITED STATES FOREIGN RELATIONS SINCE 1914 3 hours
A study and analysis of the diplomacy of the United States in World War I, the period between the wars, World War II, and the contemporary era. (This course may be taken for Political Science credit.)

391 HISTORY OF AMERICAN POLITICAL PARTIES 3 hours
The course deals with the origin of the party system and its functions in American government; a consideration of major and minor parties, blocs, pressure groups, and all forces and activities that are important in the struggle for political control in the nation. (This course may be taken for Political Science credit.)

398 HISTORY OF MEXICO 3 hours
A study of the conquest, colonization, colonial institutions, wars of independence, empire and early republic, Revolution of 1910, and the emergence of modern Mexico.

399 INDEPENDENT STUDY 3 hours
This course offers superior students an opportunity for advanced work through supervised reading, research and discussion. The intention is to allow full scope to the initiative of the student. Open only to juniors and seniors of high standing with the approval of the Chairman of the department and the instructor concerned.
POLITICAL SCIENCE

Programs of Concentration

MAJOR CONCENTRATION. Prerequisites: Political Science 103, 104. Required: Eight courses above 300, of which four must be Political Science 305, 330, 340, 341. Total credit in Political Science must be a minimum of 30 semester hours.

MINOR CONCENTRATION. Prerequisites: Political Science 103, 104. Required: Additional courses above 300, bring the total credit in Political Science to a minimum of 15 hours. It is strongly recommended that the student include two courses in political theory.

Lower Division Courses

103 AMERICAN GOVERNMENT  3 hours
This course covers the origin and development of the Federal Constitution, the organization, powers, and limitations of the Federal government, and the ideas upon which American political institutions are founded.

104 AMERICAN STATE AND MUNICIPAL GOVERNMENT  3 hours
A study of differences between state and city governments, state constitutions, and mayor-council administrations. Special attention is given to the government of the State of Illinois and the governments of Cook County and the City of Chicago.

Advanced Undergraduate Courses

305 COMPARATIVE GOVERNMENT  3 hours
A survey of contemporary governments of the major foreign powers with special emphasis on constitutions, political processes, political and social institutions, and significance in international relations.

315 PUBLIC ADMINISTRATION  3 hours
A preliminary survey of the field of public administration, stressing the role of administration and bureaucracy in modern democracy and its importance in intergovernmental cooperation. Problems of organization and relations among administrative levels; control and regulation will be stressed.

316 PUBLIC PERSONNEL ADMINISTRATION  3 hours
A study of personnel problems and standards in government career service; development and analysis of recruitment, certification, classification, and promotion procedures; maintenance of service and disciplinary records; development of public service employees; unions as factors of prestige and morale in public service personnel.

330 WORLD POLITICS  3 hours
A survey of the factors bearing on international politics; emphasis on demographic, economic, geographic, cultural, and strategic considerations; examples and applications to such problems as imperialism, balance of power, collective security, and international organization.

325 INTERNATIONAL LAW  3 hours
A study of the principles and practices of international law; special consideration of such problems as sources and sanctions of the law of nations; recognition and succession of states, intervention, jurisdiction, nationality, and protection of citizens, diplomatic and consular practice; treaty interpretation, with specific cases in each field.

340 HISTORY OF POLITICAL THOUGHT I  3 hours
A study tracing the political theories of the major political philosophers, emphasizing similarities and differences in approaches and solutions to the perennial problems of political philosophy— with due consideration of historical setting and the development of thought in ancient and medieval times.
341 HISTORY OF POLITICAL THOUGHT II 3 hours
A continuation of Political Science 340, emphasizing the historical setting and the development of political thought in modern times.

381 CONSTITUTIONAL HISTORY OF THE UNITED STATES TO 1860 3 hours
Colonial governments and their relations with the Crown; constitutional aspects of the Revolution; development of state governments; framing and adoption of the Constitution; and growth of the Federal judiciary. (Prerequisite: Sophomore standing.) (This course may be taken for History credit.)

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Arguments on the nature of the Union and secession; constitutional aspects of Reconstruction; interpretations of the Fourteenth Amendment; and movements for judicial reform. (Prerequisite: Sophomore standing.) (This course may be taken for History credit.)

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A study and analysis of the diplomacy of the United States in World War I, the period between the wars, World War II, and the contemporary era. (This course may be taken for History credit.)

391 HISTORY OF AMERICAN POLITICAL PARTIES 3 hours
The course deals with the origin of the party system and its functions in American government; a consideration of major and minor parties, blocs, pressure groups, and all forces and activities that are important in the struggle for political control in the nation. (This course may be taken for History credit.)

394 CONSTITUTIONAL LAW 3 hours
A study of the growth and interpretation of the American Constitution through decisions of the Supreme Court. Basic cases will be selected in the following categories: powers of the Federal Government; due process of law; political and civil rights; citizenship; taxing power of the government; eminent domain; the right of constitutional revision.

395 SELECTED PROBLEMS IN CONTEMPORARY AMERICAN DIPLOMACY 3 hours
An analytical study of American participation in regional and global political and military agreements. This approach will examine the degree of success and effectiveness of United States foreign policy in this period of realism in Europe, Africa, the Middle East and the Far East.

396 PROPAGANDA TECHNIQUES 3 hours
A study of the use of mass communication as a device to influence the thinking and behavior of people in the interest of a particular group, government, or issue. Military, political, economic, ideological, and psychological techniques will be studied and analyzed. Case studies will be made to illustrate successful application of propaganda techniques in national and international problems.

FACULTY
PAUL L. HUGHES, PH.D., Chairman and Professor
STANLEY S. JADOS, PH.D., Professor
JOSEPH R. LEHMANN, PH.D., Professor
MARTIN J. LOWEY, PH.D., Professor
ALBERT EISENBERGER, PH.D., Assistant Professor
CORNELIUS SPURGEON, PH.D., Assistant Professor
ARTHUR THURBER, PH.D., Assistant Professor
BERNADINE PIETRASZEK, M.A., Instructor
ROGER D. SPEEDE, Instructor

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HUMANITIES

The following courses are required for graduation with a Bachelor of Arts/Honors degree. However, the courses are open to students outside of the Honors Program if they are recommended by the Dean, Director of the Honors Program or the instructor of the course. Enrollment shall not exceed twenty-five. The courses need not be taken in the order listed.

301 GREAT WRITINGS, ANCIENT WORLD TO THE RENAISSANCE
3 hours

A study of part one of the Honors Committee's list of Great Books, including the Holy Bible, Homer, Thucydides, Sophocles, Plato, Aristotle, St. Augustine, St. Thomas Aquinas, Dante, and Chaucer. While one professor will direct the course, guest lecturers will speak on each work.

302 GREAT WRITINGS OF EARLY MODERN TIMES.
3 hours. First semester

A study of part two of the Honors Committee's list of Great Books, including Erasmus, Machiavelli, Descartes, Cervantes, Shakespeare, Pascal, Moliere, Adam Smith, Boswell, and political documents relating to the founding of the American Republic. While one professor will direct the course, guest lecturers will speak on each work.

303 GREAT WRITINGS OF RECENT TIMES
3 hours. Second semester

A study of part three of the Honors Committee's list of Great Books, including Goethe, Keats, Mill, Darwin, Marx, Tolstoy, Newman, James, Freud, and the Papal Social Encyclicals. While one professor will direct the course, guest lecturers will speak on each work.
IBERO / AMERICAN STUDIES

The major or minor in Ibero-American Studies is designed to provide the student with the foundation for careers in commerce, diplomacy and education which will involve residence in the Iberian Peninsula or Latin American nations; for teaching, social, legal or apostolic work among Latin Americans living in the United States; for teaching, especially Spanish, at the secondary level; for basic background for those intending to continue work in the Latin American field at the graduate level; and for those seeking a general cultural education with emphasis on this strategic area.

Interested students should apply to the chairman in the second semester of their sophomore year. At that time the student should have completed or be completing Spanish 104.

Thirty hours are required for the major; eighteen hours are required for the minor. Students should select from the following courses in consultation with the committee:

101 IBERO AMERICAN PANORAMA 3 hours. First semester
A story of the history, the social problems, the arts and the literature of Ibero America. (No prerequisite).

Program of Study with Emphasis on Latin America

Required Courses:
SPANISH: 201, 203, and any two of Spanish 308, 309, 310, 311
HISTORY: 306, 307
GEOGRAPHY: 326, 327

Plus any two of the following courses:
Economics 360, Geography 319, History 398, Political Science 396 or 397, Sociology 302, Spanish 202 or 204.

Program of Study with Emphasis on the Iberian Peninsula

Required Courses:
SPANISH: 201, 203, 301, 302, plus any two of Spanish 316, 319, 327, 335, 336, 337.
HISTORY: 337
GEOGRAPHY: 319

Plus any two of the following courses:
History 306, 335, Spanish 202, 204, 308

FACULTY
ALEXANDER V. DAVIS, DOCTOR EN LETRAS, Director and Associate Professor
RICHARD J. HOUK, PH.D., Professor
RALPH J. MAILLIARD, PH.D., Professor
MARTIN J. LOWERY, PH.D., Professor
JOSEPH W. YEDICKA, PH.D., Associate Professor
BERNADINE PIETRASZEK, M.A., Instructor
LATIN

The purpose of the Latin Department is threefold: 1) To impart a knowledge of the Latin language and literature in their historic setting; 2) By revealing their intrinsic worth and their influence on subsequent language and literature, to enrich the student's knowledge and appreciation of language and literature in general, and of his own in particular; 3) By means of a carefully arranged program of studies, to equip the student to teach Latin at the high school level, and to qualify for graduate study.

Programs of Concentration

Major Concentration. Prerequisites: Latin 101, 102, or their equivalents. Required: Latin 103, 202, 203, 204, 205, 206, 309 and two other courses above 200.

Minor Concentration. Prerequisites: Latin 101, 102, or their equivalents. Required: Latin 103, 204, 205, 206, and 309.

Lower Division Courses

101 ELEMENTARY I
3 hours, First semester
A study of the basic facts of the language with emphasis on the noun and adjective. Special attention to vocabulary drill.

102 ELEMENTARY II
3 hours, Second semester
Careful study of the conjugations of the verb, parsing and analysis of sentences.

103 INTERMEDIATE
3 hours, First semester
This course consists of a careful review of declensions and conjugations, with emphasis on vocabulary, selected readings in various authors, together with the writing of Latin sentences. It is particularly offered as a review and preparation for further studies in Latin to those students who have had one or two years of High School Latin.

Advanced Undergraduate Courses

202 ANCIENT HISTORY: GREECE
3 hours, First semester
A study of the ancient Mediterranean World from the Pre-Mycenaean period to the death of Alexander the Great with emphasis upon the political and cultural development of the Greek City State. (This course not applicable in fulfillment of a language requirement for a degree.)
203 ANCIENT HISTORY: ROME
3 hours. Second semester
A study of the development and expansion of Rome from the founding of the city to the reign of Justinian. (This course not applicable in fulfillment of a language requirement for a degree.)

204 CAESAR: GALLIC WAR
3 hours. Second semester
Translation of the text together with an analysis of connected discourse, parsing, vocabulary, and a discussion of the historical features.

205 CICERO: ORATIONS
3 hours
Readings from the orations against Catiline, Poet Archias, Pro Marcello. A discussion of Roman oratory and historical background.

206 VERGIL: AENEID
3 hours. First semester
Translation of selected texts from the first six books. Discussion of the Latin hexameter and exercises in scansion.

301 CICERO: DE SENECTUTE AND DE AMICITIA
3 hours
A brief discussion of the philosophical essays of Cicero. Life and work of Cicero will be considered in relation to the cultural background of the Roman Republic.

302 OVID: METAMORPHOSES
3 hours
Reading of the text with consideration of the evolution of Ovid’s art. Stress will be laid on the colorful mythological content, graceful verse, and perfection of language.

303 LIVY: SELECTIONS FROM BOOKS I, XXI, AND XXII
3 hours. First semester
The Romulus legend and other sagas of Book I will be analyzed as examples of the Latin folklore. The character of Hannibal and the major events of the Punic War will be illustrated through selected texts of Books XXI and XXII. A rapid survey of the life, work and art of Livy.

305 TACITUS: GERMANIA AND AGRICOLA
3 hours
The content, form, style and vocabulary of these works and the main characteristics of Roman historiography will be discussed.

307 HORACE: ODES AND EPODES
3 hours. Second semester
Reading of selected poems with special regard to their artistic qualities and philosophical content. Study of the chief forms of the Horatian verse.

308 PLAUTUS: AULULARIA; TERENCE; PHORMIO
3 hours
Reading and interpretation of the two plays. The Greek sources of the Roman comedy will be discussed. The adaptation of the new art to the conditions in Rome will be viewed in the light of social history in the early republic.

309 LATIN PROSE COMPOSITION
3 hours. Second semester
The purpose of this course is to give a thorough understanding of Latin syntax and practice in the writing of good Latin prose.

310 HORACE: SATIRES AND EPISTLES
3 hours
Selected readings with attention to form and content. Discussion of Roman Satire and of social conditions in Rome.

399 INDEPENDENT STUDY
3 hours. By arrangement
Exceptionally qualified students will be permitted to take courses numbered over 300 through the Independent Study Program. Only one course may be taken during a semester, and this course must be selected in consultation with a faculty member of the Latin Department. The content of each course will be basically the same as described in the Bulletin.
MATHEMATICS

The Department of Mathematics endeavors to provide a sound mathematical background for a variety of career interests in mathematics including teaching, further study and research, applied mathematics, and to meet the mathematical needs of students in the physical, biological and behavioral sciences.

Programs of Concentration

All programs begin with Mathematics 150. Prerequisites for admission to Mathematics 150 are:

1. Satisfactory completion of three or more years of high school mathematics and

2. Achievement of a satisfactory score on the Mathematics Placement Test.

Students not meeting the above requirements must complete Mathematics 130 and 131 before taking Mathematics 150.

MAJOR CONCENTRATION I: Required; Mathematics 150, 151, 211, 212, 281, 282, 330, and three other courses on the 300 level.

MAJOR CONCENTRATION II (for prospective secondary school teachers of mathematics): Required; Mathematics 150, 151, 211, 212, 281, 282, 320, 322, and two other courses on the 300 level.

MINOR CONCENTRATION: Required; Mathematics 150, 151, and two other courses on the 200 or 300 level.

Substitutions in the above may be made with the approval of the Department chairman.

A major in mathematics may be combined with a minor from one of several departments and can lead to a Bachelor of Arts or Bachelor of Science degree. For details refer to the general degree requirements and the listings of other departments.

Mathematics majors may have, for the Bachelor of Science degree, a combined minor of Physics 170, 171, 172 and eight semester hours in Chemistry.

Note that the combined chemistry-physics minor is not mandatory for mathematics majors, but is an additional choice for a minor open to them.

Lower Division Courses

101 MATHEMATICS I 3 hours. First semester
Logic and sets; the real number system; algebra. (Prerequisite: two years of high school mathematics.)

102 MATHEMATICS II 3 hours. Second semester
Introduction to analytic geometry of the plane; concept of function; probability function; non-algebraic functions. (Prerequisite: 101.)

130 ALGEBRA 3 hours. First semester
Sets; the real number system; algebra; polynomials; binomial theorem; other topics. (Prerequisite: two years of high school mathematics.)

131 ELEMENTARY FUNCTIONS 3 hours. Second semester
Coordinates in the plane; rational, trigonometric, exponential and logarithmic functions and their graphs. (Prerequisite: 130 or the equivalent)

Mathematics 101, 102 on the one hand, and Mathematics 130, 131 on the other are considered parallel sequences and are not interchangeable. For example, a student may not fulfill the general education requirements in mathematics by taking 101 and 130.
150 CALCULUS I
5 hours. First semester
Analytic geometry of the line and plane; limit and continuity; derivative and integral; differentiation and integration of the elementary functions; applications; the Mean Value Theorem. (Prerequisite: Placement Test or 131.)

151 CALCULUS II
5 hours. Second semester
Continuation of 150. Techniques of integration; parametric equations and arc length; polar coordinates; applications. (Prerequisite: 150.)

ADVANCED UNDERGRADUATE COURSES

211 CALCULUS III
3 hours. First semester
Continuation of 151. Solid analytic geometry; introduction to partial differentiation and multiple integration; sequences and series. (Prerequisite: 151.)

212 ORDINARY DIFFERENTIAL EQUATIONS
3 hours. Second semester
Introduction to certain classical equations and techniques for solving them; applications; some consideration of existence questions. (Prerequisite: 211.)

281 MODERN ALGEBRA I
3 hours. First semester
Sets, functions, equivalence relations; axioms for the integers; divisibility properties of the integers, integers mod n; construction of the rationals; polynomials over a field and their factorization; real and complex numbers; introduction to groups rings, integral domains, and fields. (Prerequisite: 151.)

282 MODERN ALGEBRA II
3 hours. Second semester
Continuation of 281. Linear equations and determinants; introduction to vector spaces, linear transformations and matrices. (Prerequisite: 281.)

300 COMPUTER PROGRAMMING
3 hours. Offered through the University College
Principles of programming for large scale digital computers including program planning and the writing and debugging of programs in compiler and symbolic assembly languages. Emphasis will be placed on scientific applications and the examples and problems will be adapted to the University's 140. (Prerequisite: 102 or 130, or consent.) This course will not be accepted toward a Mathematics major.

305 INTRODUCTION TO MATHEMATICAL STATISTICS
3 hours. Summer Session
An elementary introduction to probability theory with applications to statistics. (Prerequisite: 102 or 130, or consent.) This course will not be accepted toward a Mathematics major.

320 FOUNDATIONS OF GEOMETRY
3 hours
Detailed investigation of Euclidean geometry from a synthetic and analytic point of view; historical and axiomatic problems; introduction to non-Euclidean geometry. (Prerequisite: 282.)

322 PROJECTIVE GEOMETRY
3 hours
Synthetic and analytic projective geometry. (Prerequisite: 282 (320 recommended).

324 GEOMETRIC TRANSFORMATION GROUPS
3 hours
Plane analytic projective, affine and Euclidean geometry; transformations; invariance under groups of transformations. (Prerequisite: 282.)

330 ADVANCED CALCULUS
3 hours. First semester
Partial differentiation; implicit function theorem; multiple integrals; line and surface integrals; theorems of Green and Stokes. (Prerequisite: 212 or consent.)

333 FUNCTIONS OF A COMPLEX VARIABLE
3 hours. Second semester
Cauchy-Riemann equations; Integral Theorem; series; contour integration; other topics. (Prerequisite: 330.)

351 INTRODUCTION TO PROBABILITY THEORY
3 hours. First semester
Random events and variables; distributions; characteristic function; limit theorems. (Prerequisite: 211; 330 recommended.)

352 MATHEMATICAL STATISTICS
3 hours. Second semester
Sampling; significance tests; estimation; hypothesis testing; regression analysis; analysis of variance; sequential analysis. (Prerequisite: 351.)
371 LINEAR ALGEBRA 3 hours, Second Semester
Vector spaces; linear transformations and matrices; decomposition of vector spaces; canonical forms; quadratic and Hermitian forms. (Prerequisite: 282.)

372 FUNDAMENTAL CONCEPTS OF ALGEBRA 3 hours, First Semester
The fundamental properties of such basic structures as group, ring, field, module. (Prerequisite: 282.)

381 DIFFERENTIAL GEOMETRY 3 hours
The geometry of curves and surfaces: Serret-Frenet formulas; intrinsic equations of a curve; first and second fundamental forms of a surface; other topics. (Prerequisite: 330.)

385 INTRODUCTION TO TOPOLOGY 3 hours
Metric spaces; topologies; connectedness; compactness: elements of point-set topology. (Prerequisite: 330.)

391 ANALYSIS I 3 hours, First Semester
A rigorous treatment of functions of a real variable; the real number; topology of the line; limits and continuity; differentiation. (Prerequisites: 282 and 330.)

392 ANALYSIS II 3 hours, Second Semester
Continuation of 391; Riemann-Stieltjes integral; functions of bounded variation; sequences of functions and uniform convergence; introduction to the Lebesgue integral. (Prerequisite: 391.)

397 Seminar 3 hours
Open to exceptional seniors by invitation only. Independent study and introduction to research will be emphasized. Participants will take turns in presenting their work.

399 INDEPENDENT STUDY IN MATHEMATICS
Independent study in advanced mathematics under the supervision of a faculty member. Hours arranged. (Prerequisite: consent of Chairman.)

Other Mathematics courses offered at the Lewis Center are listed in the bulletins of the University College and the Graduate School.

FACULTY

NELO D. ALCAN, Ph.D., Assistant Professor
ALPHONSE BUCCINO, M.S., Assistant Professor (On leave)
CARL L. DE VITO, Ph.D., Assistant Professor
WALTER A. PRINGE, Jr., Ph.D., Assistant Professor
NESTOR M. RIViere, Ph.D., Assistant Professor
JACOB TOWBER, Ph.D., Assistant Professor
STEPHAN VAGI, Ph.D., Assistant Professor
YUEN-FAT WONG, Ph.D., Assistant Professor
LOUIS E. AQUILA, M.S., Instructor
CONSTANTINE E. GEORGAKIS, M.S., Instructor
WALTER J. NEATH, M.A., M.S., Instructor
FRANZ W. SCHNEIDER, M.S., Instructor
JEAN A. TOOTH, M.S., Instructor

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MILITARY SCIENCE

The Reserve Officers Training Corps instruction as presented by the Military Science Department at De Paul is designed to provide student cadets with a knowledge of the mission and potential of the United States Army. By enrollment in the ROTC program a student has the opportunity to earn a commission as an officer in the United States Army.

The basic course of instruction for freshman and sophomore cadets emphasizes the fundamentals of military leadership and includes practical training in marksmanship, the soldier's essential skill. Regardless of the student's individual plans for future military service, the experience which he gains through successful completion of the basic course is universally useful in respect to the development of self confidence, physical coordination, and the ability to work in harmony as a team member.

The advanced course of instruction in Military Science is offered to students who have demonstrated proficiency in the basic course and who possess the desire to serve their country as a commissioned officer in the United States Army. Cadets in the advanced course receive a monthly tax free monetary allowance of $40.00 from the beginning of their junior year until graduation. Effective on the day of graduation the cadet is appointed to the rank of second lieutenant and becomes eligible for a tour of active army duty. Cadets who are designated Distinguished Military Graduates by the University have the opportunity to accept a commission in the Regular Army and pursue a military career.

Nationwide, the college ROTC program is relied upon to commission 12,000 well-educated officers annually in order for the United States Army to be able to do its job in the national defense effort.

De Paul graduates are distinguishing themselves on active duty today in various branches of the Army. Recent graduates have been accepted for duty with the Army's legal branch, The Judge Advocate General Corps, and also with a newly created branch, Army Intelligence and Security.

It is the policy of the Military Science Department to schedule Advanced Course instruction with the greatest possible flexibility in order that the individual cadet may devote maximum study effort to his major field.

Extra curricular activities sponsored by the Military Department for interested students include the Pershing Rifles Society, The ROTC Rifle Team, The De Paul University Rifle Club, The ROTC Drill Team, The Guerilla Company and the Marching Band. These organizations engage in intercollegiate competition and make trips throughout the mid-west.

Complete uniforms required for all phases of the ROTC program are furnished to each student at the expense of the Federal Government.
Basic Courses

111 FRESHMAN ROTC 1 credit hour, first semester
In course 111 the cadet receives instruction in troop leadership, participates in practical marksmanship exercises, and studies the organization of the Army and the ROTC.

112 FRESHMAN ROTC 1 credit hour, second semester
This course is a continuation of course 111. It features 15 classroom hours on The United States Army and National Security, a subject which includes exposition of Soviet strategic concepts, Communist block capabilities, battlefield organization of the United States Army, and the United States Army Research and development program.

121 SOPHOMORE ROTC 1 credit hour, first semester
In this course the cadet participates in progressive phases of leadership training and receives detailed instruction in Infantry tactics and basic gunnery mathematics.

122 SOPHOMORE ROTC 1 credit hour, second semester
Course 122 is the study of American Military History. Special emphasis is placed on post World War II guerrilla warfare actions in which the United States Army has had a direct interest.

Advanced Courses

231 JUNIOR ROTC 2 credit hours, first semester
Course 231 stresses current troop unit organization, and the application of military teaching principles and methods of instruction. (Course prerequisites. Completion of the Freshman and Sophomore ROTC courses or equivalent military training.)

232 JUNIOR ROTC 2 credit hours, second semester
Course 232 prepares the cadet for a six week summer camp by providing practical training in marksmanship, military map reading, and platoon tactics. Physical training periods are conducted concurrently. Successful completion of Course 231 is a prerequisite.

241 SENIOR ROTC 2 credit hours, first semester
This course deals with communist insurgency, its characteristics, its current application, and an analysis of U. S. Military antidote methods. Successful completion of Junior year ROTC is a prerequisite.

242 SENIOR ROTC 2 credit hours, second semester
In course 242 the cadet receives instruction in military law and Army staff procedures. Practice teaching by cadets is integrated in the course. Successful completion of Course 241 is a prerequisite.

Faculty

EDMUND J. DOLLARD, LT. COLONEL, Infantry, Director and Professor
AARON A. ASP, LT. COLONEL, Infantry, Assistant Professor
PERRY W. BROADDUS, MAJOR, Artillery, Assistant Professor
GEORGE L. GARLAND, JR., MAJOR, Infantry, Assistant Professor
ROBERT O. YOW, CAPTAIN, Infantry, Assistant Professor

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MODERN LANGUAGES

The study of a modern foreign language and its literature, as well as of the people who produced both, will aid the student in becoming an educated person. Specifically, the aim of the Department in the freshman and sophomore years is to develop progressively the ability to speak, understand, read and write the language; this lays the foundation for further attainments in the active use of the language and in the appreciation of its authors in more advanced courses.

346 MODERN LINGUISTICS 3 hours. First semester
This course is intended for all foreign language majors and minors. Its purpose is to provide the student with modern and scientific techniques to improve pronunciation and to give a deeper insight into the internal structure of language.

348 TECHNIQUES OF TEACHING MODERN LANGUAGES 3 hours. Offered through the University College. Autumn quarter
This course is designed for the students who are majoring or minoring in French, German or Spanish. Special emphasis will be placed on audio-lingual methods and the use of the language laboratory. The problems of language teaching in the elementary school and the secondary school will be stressed. (In conjunction with the School of Education.) ($2.00 laboratory fee.) (Prerequisite: Course 104.)

399 INDEPENDENT STUDY 3 hours. By arrangement
Program for seniors who are majors or minors. The work will be decided upon both according to the needs of the individual for completing his chosen field and also according to the interests of the individual student. The major project will be to write a senior paper which shows individual and original research on the subject and mastery of the principles of expository writing.

FRENCH

MAJOR CONCENTRATION. Prerequisites: French 101 and 102, or their equivalent. Required: French 103, 104 and eight electives including at least one 200 level course. Modern Languages 346 and 348 are strongly recommended for students intending to teach and they count toward the major.

MINOR CONCENTRATION. Prerequisites: French 101 and 102, or their equivalent. Required: French 103, 104 and three electives in French including at least one 200 level course and one 300 level course in French. Modern Languages 346 and 348 are strongly recommended as additional courses for students intending to teach.

Lower Division Courses

101 ELEMENTARY I 4 hours. First semester
Elements of French grammar, the principles of pronunciation and the reading of simple prose. Oral expression is encouraged. ($5.00 laboratory fee.)

102 ELEMENTARY II 4 hours. Second semester
Continuation of Course 101. (Prerequisite: Course 101.) ($5.00 laboratory fee.)

103 INTERMEDIATE 3 hours. First semester
Intensive reading and discussion of French texts. Review of principles of grammar. Oral expression is encouraged. (Prerequisite: Course 102.) ($5.00 laboratory fee.)

104 ADVANCED 3 hours. Second semester
Continuation of Course 103. (Prerequisite: Course 103.) ($5.00 laboratory fee.)
Advanced Undergraduate Courses

Prerequisite on all Advanced Undergraduate courses: Course 104 or departmental approval.

201 READINGS AND COMPOSITION I 3 hours
Extensive reading and discussion of French Prose. Intensive study of the French sentence structure by writing short themes.

202 READINGS AND COMPOSITION II 3 hours First semester
Extensive reading and discussion of French Prose. Intensive study of the French sentence structure by writing short themes. The literature studied in this course differs from that used in Course 201.

203 SPOKEN FRENCH 3 hours
Planned to enable students to acquire a fluency in practical everyday French through conversation. Daily talks. Intensive study of pronunciation and inflection.

204 ADVANCED SPOKEN FRENCH 3 hours. Second semester
Planned to enable students to perfect their speaking ability and their comprehension. Continued intensive study of pronunciation and inflection.

301 INTRODUCTION TO FRENCH LITERATURE I 3 hours
A study of French literature from the Middle Ages through the 18th century, including prose, poetry and drama.

302 INTRODUCTION TO FRENCH LITERATURE II 3 hours
A study of French literature of the 19th and 20th centuries, including poetry, drama, novel and short stories.

304 FRENCH CIVILIZATION 3 hours. Second semester
A study of the political, economic, social and intellectual background of present day France, with readings in the works of great French thinkers.

308 THE RENAISSANCE 3 hours
The poetry of La Pléiade and the work of Rabelais, Montaigne and Margaret of Navarre.

309 CONTEMPORARY FRENCH LITERATURE 3 hours
Fiction, theater, poetry, including Anouilh, Cocteau, Colette, Malraux, Valery and representative literature of the Surrealist and Existentialist movements.

310 FRENCH CLASSICISM 3 hours
A study of the theater of Corneille, Moliere and Racine, the prose works of Bossuet, La Rochefoucauld, La Bruyère, Mme. de Sevigne and the fables of La Fontaine.

311 FRENCH LITERATURE FROM 1800-1850 3 hours. First semester
A study of the pre-romantic works of Chateaubriand and Mme. de Stael, the poetry and theater of the Romantic movement (including Lamartine, Hugo, Musset and Vigny).

312 FRENCH LITERATURE FROM 1850-1900 3 hours. Second semester
1. Realism in fiction and theater (including works by Flaubert, Maupassant, Dumas fils and Beauce). 2. Poetry of Baudelaire. Verlaine, Rimbaud and Mallarmé.

313 THE FRENCH NOVEL 3 hours
Survey of the French novel beginning with La Princesse de Clèves and terminating with Proust.

314 THE DEVELOPMENT OF FRENCH FICTION 3 hours. First semester
A study of the "conte philosophique," the epistolary novel, the "roman personel" and nineteenth century narrative.

315 THE FRENCH THEATER 3 hours
A study of the theater in France from its origins to the present day, including the plays of the Renaissance, the Classical Movement, Le Sage and Beaumarchais, the Romantic movement, the realists and the present day dramatists.

316 FRENCH POETRY 3 hours
A study of the forms and content of the French lyric from Charles d'Orléans and Villon up to and including Apollinaire and Eluard.
GERMAN

MAJOR CONCENTRATION. Prerequisites: German 101 and 102, or their equivalent. Required: German 103, 104 and eight electives including at least one 200 level course. Modern Languages 346 and 348 are strongly recommended for students intending to teach and they count toward the major.

MINOR CONCENTRATION. Prerequisites: German 101 and 102, or their equivalent. Required: German 103, 104 and three electives in German, including one 200 level course, and one 300 level course in German. Modern Languages 346 and 348 are strongly recommended as additional courses for students intending to teach.

Lower Division Courses

101 ELEMENTARY I
4 hours. First semester
Fundamentals of German grammar, the principles of pronunciation and the reading of simple prose. Oral expression is encouraged. ($5.00 laboratory fee.)

102 ELEMENTARY II
4 hours. Second semester
(Prerequisite: Course 101.) ($5.00 laboratory fee.)

103 INTERMEDIATE
3 hours. First semester
Intensive reading and discussion of German texts. Review of principles of grammar. Oral expression is encouraged. (Prerequisite: Course 102.) ($5.00 laboratory fee.)

104 ADVANCED
3 hours. Second semester
Continuation of Course 103. (Prerequisite: Course 103.) ($5.00 laboratory fee.)

Advanced Undergraduate Courses

(Prerequisite on all Advanced Undergraduate Courses: Course 104 or departmental approval.)

201 READING AND COMPOSITION
3 hours. First semester
Extensive reading and discussion of German prose. Intensive study of the German sentence. Written themes.

202 READINGS AND COMPOSITION II
3 hours
Extensive reading and discussion of German prose. Intensive study of the German sentence. Written themes. The literature in this course differs from that in Course 201.

203 SPOKEN GERMAN
3 hours. Second semester
Training in oral expression to enable students to perfect their ability to understand and speak German. Recording in language laboratory.

204 ADVANCED SPOKEN GERMAN
3 hours
Further training in oral expression to enable students to acquire complete fluency in German. Daily talks. Recording in language laboratory.

301 INTRODUCTION TO GERMAN LITERATURE I
3 hours
A survey of German Literature and its cultural background from the origins to 1500.

302 INTRODUCTION TO GERMAN LITERATURE II
3 hours. Second semester
A survey of German Literature and its cultural background from 1600 to modern times.

303 THE NOVELLE
3 hours
Characteristic works of Kleist, Keller, Meyer, Stifter, Storm.

304 TWENTIETH CENTURY LITERATURE
3 hours. First semester
Intensive readings of representative century authors including Thomas Mann, Kafka, Toller, KAISAR, Kaestner, Werfel, Wiechart, Brecht and Gertrude Von Le Fort.
NINETEENTH CENTURY DRAMA
Extensive readings of representative dramatic works from Romanticism to Naturalism.

GERMAN POETRY
A study of poetry in German literature from the Baroque period up to the present day including didactic, epic, lyric and religious poetry.

INTRODUCTION TO THE CLASSICAL PERIOD
Historical and cultural background. Intensive reading of selected works of Lessing, Schiller and Goethe.

GOETHE'S FAUST
Close reading and study of the tragedy.

THE GERMAN NOVEL
A study of the novel in German literature beginning with Grimmshausen's Simplicissimus and including Goethe's Wilhelm Meister, Meyer's Jureg Jenatsch and Doeblin's Berlin Alexanderplatz.

SPANISH

MAJOR CONCENTRATION. Prerequisites: Spanish 101 and 102, or their equivalent. Required: Spanish 103, 104 and eight electives including at least one 200 level course. Modern Languages 346 and 348 are strongly recommended for students intending to teach, and count toward the major sequence. Geography 319 is also strongly recommended as an elective for the Spanish major.

MINOR CONCENTRATION. Prerequisites: Spanish 101 and 102, or their equivalent. Required: Spanish 103 and 104 and three electives in Spanish including at least one 200 level course and one 300 level course in Spanish. Modern Languages 346 and 348 are strongly recommended as additional courses for students intending to teach.

Lower Division Courses

101 ELEMENTARY I
This course embraces a study of the elements of Spanish grammar, the principles of pronunciation and reading of simple prose. Emphasis on oral expression. ($5.00 laboratory fee.)

102 ELEMENTARY II
Continuation of Course 101. (Prerequisite: Course 101.) ($5.00 laboratory fee.)

103 INTERMEDIATE
This course aims to give the student a rather complete review of Spanish grammar. Short stories are read and discussed in Spanish. (Prerequisite: Course 102.) ($5.00 laboratory fee.)

104 ADVANCED
Continuation of Course 103. (Prerequisite: Course 103.) ($5.00 laboratory fee.)

Advanced Undergraduate Courses
Prerequisite on all Advanced Undergraduate courses: Course 104 or departmental approval.

201 READINGS AND COMPOSITION
This course is planned to enable the student to speak and write the language by intensive vocabulary and idiom study, by extensive reading and by composition.

202 READINGS AND COMPOSITION II

203 SPOKEN SPANISH I
This course is planned to enable the student to acquire fluency in speaking practical idiom in Spanish. Problems of pronunciation and voice inflection are studied. Studenzc are required to make short daily talks. Corrective exercises are given where needed.

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204 ADVANCED SPOKEN SPANISH 3 hours
Planned to enable students to perfect their speaking ability and their comprehension. Continued intensive study of pronunciation and inflection. Daily talks.

301 INTRODUCTION TO SPANISH LITERATURE I 3 hours
A study of Spanish literature from the Middle Ages through the Renaissance, including prose, poetry and drama.

302 INTRODUCTION TO SPANISH LITERATURE II 3 hours
A study of Spanish literature from the Renaissance up to the present day, including prose, poetry and drama.

308 LATIN AMERICAN LITERATURE AND CULTURE I 3 hours
A study of the intellectual life of the Spanish American colonies from the discovery of America to the Wars of Independence.

309 LATIN AMERICAN LITERATURE AND CULTURE II 3 hours
A continuation of Spanish 308 from 1810 to modern times with emphasis on the literary contributions of the Spanish American republic.

310 THE LATIN AMERICAN NOVEL 3 hours. Second semester
A study of the development of narration and fiction in the Western Hemisphere, from the eighteenth century to the present day.

311 CONTEMPORARY LATIN AMERICAN LITERATURE 3 hours
A study of the literary movements and works that have appeared in Latin America within the last decades with emphasis on the most recent developments.

316 INTRODUCTION TO SPANISH POETRY 3 hours
A study of the form and content of Spanish poetry beginning with the development of the courtly lyric of the late middle ages and continuing down to Garcia Lorca and Jiminez.

319 THE GOLDEN AGE IN SPANISH LITERATURE 3 hours. First semester
A study of Spanish literature during the 17th century with emphasis on the drama as developed by Lope de Vega, Tirso de Molina, Ruiz de Alarcon and Calderon de la Barca.

327 THE SPANISH REGIONAL NOVEL 3 hours. First semester
The Spanish novela regional as represented by Pardo Bazan for Galicia, Palacio Valdez for Asturias, Blasco Ibanez for Valenea.

335 SPANISH LITERATURE OF THE 19th CENTURY 3 hours. Second semester
The literature and culture of Spain during the 19th century with emphasis on the Romantic Movement.

336 CONTEMPORARY SPANISH LITERATURE 3 hours
A critical survey of the representative literature of Spain and of Latin America in the 20th century.

FACULTY
RICHARD M. THURBER, Ph.D., Chairman and Associate Professor
ALEXANDER V. DAVIS, Doctor en Letras, Associate Professor
WILLIAM V. HOFFMAN, Ph.D., Associate Professor
PETER J. PAOUR, C.M., M.A., Associate Professor
JOSEPH W. YEDICKA, Ph.D., Associate Professor
PAULES J. ANSTRUTS, Ph.D., Assistant Professor
NORMAN GERSH, M.A., Instructor
DOUGLAS JOHNSON, M.A., Instructor
ROSE LASHER, M.A., Instructor

MUSIC

The Department of Music gives instruction in instrumental and vocal music, orchestral and choral music, theory and history of music. It teaches music aesthetically and historically as an element of liberal culture.

Entrance requirements in music—To enter the Bachelor of Arts course with a major sequence in theoretical music, the student must have an elementary knowledge of piano-playing and theory. Students who are unable to meet these entrance requirements must make up their deficiency.
LOWER DIVISION COURSES

MTH 131, 132, 133 INTEGRATED THEORY 4 hours
Harmonic, contrapuntal and rhythmic dictation. Triads and inversions. Diatonic chord progressions.

MTH 141, 142, 143 INTEGRATED THEORY 4 hours
Contrapuntal dictation in two parts. Dominant harmony, chords of the seventh and ninths. Diatonic modulations.

APM APPLIED MUSIC (PIANO, VOICE, ORGAN, ETC.) 4 hours

MTH 151, 152, 153 INTEGRATED THEORY 4 hours

MTH 161, 162, 163 INTEGRATED THEORY 4 hours

Enharmonic modulations.

APM APPLIED MUSIC 4 hours

UPPER DIVISION COURSES

HSM 143 MUSIC TO 1300 1 hour
Survey course.

HSM 144 MUSIC 1300-1600 1 hour
Survey course.

HSM 245 HISTORY AND LITERATURE OF MUSIC 2 hours
Baroque, Rococo and Classical music.

MCO 204 FORM AND ANALYSIS 2 hours
The structural material used in composition.

HSM 246 HISTORY AND LITERATURE OF MUSIC 2 hours
Romanticism in the 19th century.

MCO 205 FORM AND ANALYSIS 2 hours
Analysis of Rondo, Sonata, Variations, Concerto, Symphony, Contemporary tendencies.

APM APPLIED MUSIC 2 hours

MUSIC THEORY ELECTIVES 4 hours

NURSING

The three-fold aim of the baccalaureate program in nursing is to provide:
a) a broad background in liberal arts contributing to the development of the individual who will be a responsible member of family, church and community;
b) a professional education essential for the development of competent beginning practitioners of nursing who are able to design, organize, execute, and assess nursing care in health institutions and agencies in the community;
c) a liberal and professional education which will serve as a basis for continuing graduate study.

Program of concentration

MAJOR CONCENTRATION. Prerequisite: Nursing 101, 102. Required:

MINOR CONCENTRATION. Required: Physical Science 101, Chemistry 101,
Biology 202, 305, 308.

LOWER DIVISION COURSES

101 ORIENTATION TO NURSING 2 hours. First semester
Primarily intended to afford guidance toward orienting the student to the nature, scope, standards and responsibility of professional nursing. Emphasis is placed on the development of desirable and essential ideals and attitudes.

102 NURSING IN THE SOCIAL ORDER 2 hours. Second semester
The development of nursing and nursing practice from early times to the present day. Emphasis is placed on the influence of social, political, religious and economic forces on nursing in present day society, along with projections for the future.

103 NURSING I. INTRODUCTION TO NURSING 2 hours. Summer Session
Introduction to fundamental principles and concepts of nursing to assist the
student to gain self-awareness, to understand the patient as an individual, and to appreciate the need for effective nurse-patient interaction. Emphasis is placed on attitudes, knowledge, and skills basic to giving beginning professional nursing care. Two hours lecture and six hours laboratory weekly.

206 NURSING II. INTRODUCTION TO NURSING  6 hours. First semester
Continuation of Nursing I with emphasis on the ability, through the problem-solving approach, to plan and carry out nursing care involved in meeting needs common to many hospital patients, regardless of type of illness. Attention is given to the necessity for meeting basic personal and family health needs. Three hours lecture and nine hours laboratory weekly.

207 NURSING III. MEDICAL-SURGICAL NURSING  9 hours. Second semester
The study and application of nursing principles, including nutrition and drug therapy, in the care of selected patients with medical-surgical conditions. Principles of guidance in health teaching is emphasized along with the need for rehabilitation of patient and family. Guided clinical laboratory practice is provided in medical-surgical patient units and in the operating room. Three hours lecture and eighteen hours laboratory weekly.

ADVANCED UNDERGRADUATE COURSES

306 NURSING IV. MATERNAL AND CHILD NURSING  9 hours. First semester
Family centered nursing care of mother and child. Principles basic to maternity cycle and child growth from conception to adolescence. Understanding and skill is developed in the care of common complications which might affect mother and infant, as well as in the care of pediatric conditions and their effect on the growth process and family relationships. Three hours lecture and eighteen hours laboratory weekly.

307 NURSING V. PSYCHIATRIC NURSING  9 hours. Second semester
Introduction to the concepts and practice of psychiatric nursing. Principles of human behavior and mental health serve as a basis for understanding nursing care in psychiatric illness. Guided clinical practice in the nursing care of selected emotional and organic disorders is provided in preparing the student to function effectively as a therapeutic agent in the psychiatric health team. Three hours lecture and eighteen hours laboratory weekly.

308 NURSING VI. PUBLIC HEALTH AND PUBLIC HEALTH NURSING  9 hours. First semester
Considers epidemiological methods of disease control, environmental sanitation and health education programs. Introduces the student to development, organization and administration of community health services. Emphasizes the function and responsibility of public health nursing in family and community. Guided clinical practice is provided in official or non-official public health nursing agencies providing family health services. Three hours lecture and eighteen hours laboratory weekly.

309 NURSING VII. ADVANCED NURSING  6 hours. Second semester
Opportunity is provided to develop increased competency in planning, directing and applying scientific nursing principles in a clinical area of special interest or aptitude. Basic principles of management are further analyzed and applied as the student functions in beginning leadership roles of team leader and assistant head nurse. Additional skills are developed in the teaching of individuals and groups, as well as in the use of evaluative techniques for appraising quality of nursing care. Three hours lecture and nine hours laboratory weekly.

310 SENIOR SEMINAR IN NURSING  3 hours. First semester
Consideration of the organization and function of a nursing unit and nursing services, as well as the interpersonal and professional relationships between departments and levels of administrative personnel. Principles of team leadership, with emphasis on effective application of individual and group teaching, along with basic management skills necessarily inherent in this leadership role. The course also presents some of the socio-legal aspects of nursing which are considered essential knowledge for the beginning practitioner of professional nursing.

311 SENIOR SEMINAR IN NURSING  3 hours. Second semester
Discussion and study of occupational opportunities for the professional nurse, with emphasis on plans for continuing professional and personal growth. Developments in professional organizations and the role of the nurse member in the future of the profession.
PHILOSOPHY

The courses in the Department of Philosophy in general aim at giving the student an accurate knowledge of the fundamental principles and causes on which all things depend for their existence. In particular, their object is to expose man’s place in the universe, to demonstrate the nature of his final end, and to show the role which the intellectual and moral virtues and social life play in the attaining of that end.

Programs of Concentration

MAJOR CONCENTRATION. Prerequisite: Philosophy 101 or 102. Required: Philosophy 190, 202, 205, 206, 310, 311, 312, 313 and one other philosophy course selected from the 300 series. Those students enrolled in the Philosophical Horizons Sequence and who wish to become majors may substitute Philosophy 192, 193, 209 and 210 for Philosophy 190, 202, 205 and 206. Those who are competent to pursue graduate study in Philosophy, and who intend to do so, should take Philosophy 399 in addition to the other courses. Those majors who intend to pursue graduate work in philosophy are advised to attain a language reading proficiency in Latin, French or German. Each year the Department sponsors a number of symposia featuring prominent philosophers. Attendance at these symposia is mandatory for all majors.

MINOR CONCENTRATION. Prerequisite: Philosophy 101 or 102. Required: Philosophy 190, 202, 205, 206 and 300 or 313. Students enrolled in the Philosophical Horizons Sequence may substitute Philosophy 192, 193, 209 and 210 for Philosophy 190, 202, 205 and 206. Philosophy 101 or 102 and any course in the 300 series will complete the minor in the Horizons program.

Philosophical Horizons Sequence

This is a new and experimental program designed by the Department of Philosophy. Its specific aim is to make philosophy maximally relevant to the needs of the twentieth century lay student. Structured especially for the non-major, this program will form a base serving the general educational requirements necessary for the liberally educated man. There is no intent to teach only a single “system” of philosophy in this program. It seeks to involve the student in philosophizing by means of dialogue. The program will cut across a number of disciplines and assist the student in forming for himself a “world-view.” To achieve this end, the student will be expected to read intensively and extensively and to partake actively in classroom discussions. Formal lectures will be held to an absolute minimum.

The student embarking on this program may commence with any of the four courses, neither constituting a prerequisite to the other. Together with the Horizons sequence the student may elect any course from the History of Philosophy series. This will bring to a total of fifteen hours, the philosophy requirements for the general student.

The courses and their descriptions follow:

192 PHILOSOPHICAL HORIZONS I. Man’s Encounter With Man. 3 hours
Designed to open up the world of philosophy to the uninitiated, this course has for its central topic the question, “Who am I?” The approach to this will be phenomenological and Socratic in that through description and the student’s own experiences, it will investigate the meaningfulness of man. Four major themes under the central heading will be covered. These are: Man and his Functions; Man as a Who, rather than a What; Man as Person, instead of merely an Individual; and following upon these, Man as participant in Society, rather than a Herd.

193 PHILOSOPHICAL HORIZONS II. Man’s Encounter With the World. 3 hours
An introduction to the historical development of the philosophical implica-
tions of the world views implied in man's encounter with Nature through language, art, science and religion. Such themes as ordered or chance universe; man's place in relation to the world; and man's evolution to this place will be discussed on terms of selected writings in each field. The aim is to develop a critical habit of philosophical thinking, to distinguish philosophical questions and method from other sciences and to evaluate the contribution of these sciences to philosophical reflection on man and the world.

209 PHILOSOPHICAL HORIZONS III. Man's Encounter With God. 3 hours

An examination of human reason's various approaches to God and the limitations that are revealed by such an undertaking. Careful consideration will be given to the Thomistic "five ways" and the ontological argument but, in addition, and in order to emphasize the diversity which has characterized man's quest for God, other positions such as those of Augustine, Pascal, Maritain, etc. will be investigated. The foundations of atheism and its contemporary implications will be given special consideration and the mystery of God's immanence/transcendence will be developed, historically and metaphysically, in the problems of deism, dualism, and pantheism.

210 PHILOSOPHICAL HORIZONS IV. Man's Encounter With Morality. 3 hours

A study of the moral dimension of the human condition. This course provides the student an opportunity to make a serious reflection upon basic phenomena relevant to morality, to confront the most important theories conceptualizing and interpreting these phenomena, and to formulate a unified understanding of morality. Among the major problems considered are: the meaning and grounds of moral judgments and of such distinctions as good-and-bad; the relation of virtue to knowledge, of pleasure to goodness, of love and hate to happiness, and of the moral agent to God.

Lower Division Courses

101 LOGIC 3 hours

The art of thinking correctly. The primary aim of this course is to develop in the student an ability to understand and to formulate arguments or demonstrations, and to detect fallacies. Practical exercises are emphasized.

102 FORMAL LOGIC AND SCIENTIFIC METHOD 3 hours

This course will deal with three distinct but related phases of logic: 1) traditional logic (definition, argumentation and fallacies); 2) symbolic logic (truth tables, and the functions of language); 3) scientific method (inductive inference, causality, Mill's methods, etc.) This course may be taken in lieu of Logic 101 and is recommended especially for those students who intend to major in the natural or behavioral sciences.

190 PHILOSOPHICAL PSYCHOLOGY 3 hours

A general study of formal, material, efficient and final causality in nature. A detailed study of the principle of life in man and the relation of his powers to this principle; sensory and intellectual cognition; sensory and intellectual appetition; the emotions; habits. (Prerequisite: Course 101.)

Advanced Undergraduate Courses

202 INTRODUCTORY METAPHYSICS 3 hours

A study of the first principles and causes of all beings. An analysis of the essence and existence, actuality and potentiality of beings; substance and accidents; the properties of being; metaphysical treatment of causes; the nature and kinds of analogy. Special attention is given to contemporary views on metaphysics. (Prerequisite: Course 190.)

205 ADVANCED METAPHYSICS 3 hours

Our knowledge of the First Being, God, so far as this can be established by natural reason. The ways of proving God's existence; His attributes; His knowledge and will; creation and providence. (Prerequisites: Courses 190 and 202.)

236 ETHICS 3 hours

A study of the end of human acts; the distinction between moral good and evil; the nature and aim of moral habits or virtues; law, duties, and rights; the nature and end of human society. (Prerequisites: Courses 190 and 202.)

300 PHILOSOPHY OF SCIENCE 3 hours

An exposition and critical evaluation of the major contemporary philosophies of science. An attempt will be made to trace these to their historical and philosophical roots. Basic philosophico-scientific concepts such as nature, motion, time, space, quantity and the continuum will be discussed. The relation of philosophy to
positive science will be analyzed. (Prerequisite: Nine hours of Philosophy.)

302 SYMBOLIC LOGIC 3 hours
A study of the methods and techniques of appraising arguments involving compound statements, relations and propositional functions. This course will also examine the nature of deductive systems, a propositional calculus and alternative systems and notations.

304 PHILOSOPHY OF COMMUNISM 3 hours
This course deals with the Philosophy of Communism remembering the words of the famous Marxist and Soviet leader, V. Lenin: "No materialism can endure without a solid philosophical basis." The purpose of this course is twofold: first, to present an account of Communist Philosophy; secondly, an objective evaluation of this Philosophy, its methods and implications. (Prerequisite: Nine hours of Philosophy.) (Lewis Division Only).

310 HISTORY OF GREEK PHILOSOPHY 3 hours
A survey of the development of the philosophy from the 6th century B.C. to the 4th century A.D. The Pre-Socratic schools, Socrates, Plato, Aristotle, Stoicism, Skepticism, Epicureanism, and Neo-Platonism. (Prerequisite: Nine hours of Philosophy.)

311 HISTORY OF MEDIEVAL PHILOSOPHY 3 hours
A study of the origins, rise, and decline of Medieval philosophies. Emphasis on: St. Augustine, Boethius, Erigena, St. Anselm, Abelard, Maimonides, Avicenna, Averroes, St. Albert the Great, St. Thomas Aquinas, St. Bonaventure, Duns Scotus, and William of Ockam. (Prerequisite: Nine hours of Philosophy.)

312 HISTORY OF MODERN PHILOSOPHY 3 hours
The philosophies of the Renaissance; English Empiricism; Continental Rationalism; German Idealism; Positivism; contemporary trends in philosophy. (Prerequisite: Nine hours of Philosophy.)

313 CONTEMPORANEOUS PHILOSOPHY 3 hours
Twentieth century Philosophy. An analysis of the schools of logical positivism, pragmatism, existentialism, phenomenology. (Prerequisite: Nine hours of Philosophy.)

365 PHILOSOPHY OF RELIGION 3 hours
In general, this course will investigate the significance of religion and religious phenomena for philosophy. In particular, it will treat the following topics: the origin and nature of religion, the relationship of faith and reason, the anthropological-philosophical validity of various ideas of God, the implications of religious misunderstandings of man, and the relationship of Christianity to other religions. (Prerequisite: Nine hours of Philosophy.)

369 AMERICAN PHILOSOPHICAL THOUGHT 3 hours
A study of the major philosophical influences in American thought, including such movements as the "Theologism" of the colonial period, the American Age of Enlightenment, Transcendentalism, Evolutionism and varieties of Idealism, Pragmatism, Realism and Naturalism. Emphasis will be given to the classic American philosophers of the post-Civil War Period, such as Peirce, James, Royce, Perry, Santayana, Dewey, Lewis and Cohen. (Prerequisite: Nine hours of Philosophy.)

375 PHILOSOPHY OF ATHEISM 3 hours
This course will study the position and significance of atheism in our time. Its philosophical and religious roots will be surveyed together with a study of the nature of its protests against theism. Although individual men representing the "God is dead" theme will be discussed, the principal concern of the course will be the problematic of God's non-existence. (Prerequisite: Nine hours of Philosophy.)

390 COORDINATING SEMINAR 3 hours
A study of the unity of philosophical truth by pointing out the relation of principles and conclusions in the various branches of philosophical knowledge. For advanced philosophy majors or other qualified students obtaining departmental permission.

399 READING AND RESEARCH 3 hours
A directive study course open only to those philosophy majors who have demonstrated exceptional academic achievement. This course is designed to help prepare the student for graduate study by stressing independent reading and research. Emphasis will also be placed on a regular program of discussions by the students under the direction of the Professor. (Prerequisite: Departmental permission.)
PHYSICAL EDUCATION

The Liberal Arts major may select the following courses in Physical Education for elective credit.

111 BALLET  
Introduction to Ballet. Beginning fundamentals, techniques, terms and teaching principles.  
2 hours

112 BALLET  
Continuation of Course 111.  
1 hour

121 SWIMMING (Men)  
Instruction in ARC beginner and intermediate swimming skills; elementary springboard diving and surface diving. Advanced swimming includes competitive coaching techniques, springboard diving, starts and turns.  
1 hour

131 SWIMMING (Women)  
Fundamentals, basic nine strokes, elementary skills for surface and springboard diving and synchronized swimming. (Prerequisite: Swim 75 ft.)  
1 hour

151 FUNDAMENTALS AND GENERAL GYMNASTICS (Men & Women)  
Introduction of theory and practice of fundamental exercises leading to progressive difficulty in free exercise and apparatus. Emphasis is placed on acquisition of skill in execution and method of giving gymnastic commands. Apparatus includes climbing ropes and poles, stall bars, vertical and horizontal ladders and vaulting horse. Exercises include marching tactics, free exercises, hand apparatus, social mixers, gymnastic steps, tumbling and pyramid building.  
2 hours

204 GOLF AND TENNIS (Men & Women)  
Instruction in the fundamentals of skill and knowledge in the activities which rank high in carry-over value for adults.  
2 hours

213 BASIC RHYTHMS  
A theory and practice course designed to provide development of movement and rhythm skills basic to all forms of dance at the elementary school level. Rhythm skills include time structure of movement, use of musical symbols of pulsations (beats), accent, rhythmic patterns, movement patterns and analysis of dance steps.  
2 hours

215 FOLK AND SOCIAL DANCE (Men & Women)  
Dances of different countries both classical and folk; forms of square and round dancing and fundamentals of social dance; material and musical background for rhythms.  
1 hour

276 TENNIS - GOLF  
Instruction and practice in fundamental skills, study of the rules and care of equipment; self-testing activities, ability grouping and participation in class tournament.  
1 hour

287 TENNIS  
Content includes stroke and analysis, individual and group instruction, techniques, class organization procedures, demonstration, practice and knowledge of the rules and game etiquette.  
1 hour

288 GOLF  
Includes basic skills of golf with emphasis on grip, stance, and mechanics of the swing for hitting woods and irons. Golf etiquette and rules are covered.  
1 hour

342 COMMUNITY RECREATION  
Historical and philosophical aspects of recreation; objectives and methods of modern community recreation, promotion and organization of recreational activities, organizations concerned with community recreation programs and principles of program planning and evaluation including the administration of public recreation agencies.  
2 hours
PHYSICS

The purpose of instruction in the Department of Physics is to provide a fundamental knowledge of both theoretical and experimental Physics for one or more of the following purposes:

1. for advanced study in Physics;
2. for a career in applied Physics;
3. for a career in the teaching of Physics;
4. for a career in an allied science;
5. for the understanding of the physical world which is a part of an education in the Liberal Arts.

To fulfill these purposes the Department offers the following programs of concentration and courses.

Programs of Major Concentration

Prerequisites for all programs are: Physics 169, 170, 171 and 172; Mathematics 150, 151, 211 and 212; and eight semester hours of credit in Chemistry.

A minimum of 37 semester hours in physics courses is required in any of the programs. All students who intend to major in physics must consult with the Chairman of the Department.

PROGRAM I: This is the basic ("core") physics program. It is well-balanced between theoretical and experimental physics, and provides a deep penetration into the more fundamental areas of the science. As such, it provides a base for graduate studies and prepares a student for a career in applied physics. The requirements are: Physics 286 or 386, 288 or 388, 290, 310, 327, 341, 360, 382, 383 and three additional hours of credit in mathematics. Students intending to pursue graduate studies but who do not qualify for the Honors Program (III) are urged to elect several courses from the advanced program, but only after consultation with their departmental advisors.

PROGRAM II: This program is designed for those students who intend to teach physics in secondary schools. In addition to the "core" program (1), Physics 354 is required. Anyone intending to follow this program should make a formal declaration to his advisor. Prompt identification of prospective teachers is essential in the formulation of students' programs.

PROGRAM III: This departmental Honors program is designed for those students intending to pursue graduate study. Only those students who demonstrate superior ability in all phases of their undergraduate work will be extended invitations to this program, usually at the beginning of their Junior year. In addition to the basic requirements, Physics 311, 328, 331, 364, and 390, and six additional hours credit in Mathematics are required. It is strongly recommended that Honors candidates elect several other courses in Mathematics and fulfill the foreign language requirements by electing German or Russian.
Programs of Minor Concentration

For students in the arts and sciences. Required: Physics 169, 170, 171, 172, and three courses numbered 200 or over of which at least two must be lecture courses.

For prospective secondary school teachers of physics. A minimum of twenty-four hours in physics is required, including 169, 170, 171 and 172. The minor program must be planned in consultation with an advisor from the physics department.

Lower Division Courses

101 THE PHYSICAL SCIENCE I 4 hours. First semester
A lecture and laboratory course for students majoring in liberal arts. The course is a study of selected principles of physics, astronomy, chemistry, and geology are considered in their relations to the physical principles being studied. (Lecture 3 hours, laboratory 2 hours.)

102 THE PHYSICAL SCIENCE II 4 hours. Second semester
A continuation of Physics 101. Laboratory work required. (Prerequisite: Course 101.)

155 GENERAL PHYSICS 4 hours
A lecture and laboratory course covering the fundamental principles of mechanics, properties of matter, sound and heat. The course is designed for pre-professional students and those non-science majors interested in a more advanced exposition of physics than afforded by courses 101-102. (Lecture 3 hours, laboratory 2 hours, quiz 1 hour.) (Prerequisite: Mathematics 130 or equivalent advanced placement.)

156 GENERAL PHYSICS 4 hours
A continuation of Physics 155 considering light, electricity and modern physics. Laboratory work required. (Prerequisite: Course 155.)

169 INTRODUCTORY PHYSICS 2 hours. First semester
The most important concepts of physics will be investigated in a laboratory-discussion structure. Emphasis will be placed on developing skill in measurement, analysis of data and interpretation of experiment. (Laboratory 2 hours, discussion 2 hours.) (Prerequisite: Completion of, or concurrent registration in, Mathematics 150.)

170 GENERAL PHYSICS I 3 hours. Second semester
A rigorous introductory course covering the fundamental principles of mechanics and waves. (Lecture 3 hours, optional discussion 2 hours, laboratory 2 hours.) (Prerequisites: Course 169 and completion of, or concurrent registration in, Mathematics 151.)

171 GENERAL PHYSICS II 3 hours. First semester
A continuation of Physics 170 which treats properties of matter, heat, sound and light. Laboratory is required. (Prerequisites: Course 170 and completion of, or concurrent registration in, Mathematics 211 or 330.)

172 GENERAL PHYSICS III 3 hours. Second semester
A continuation of Physics 171 which treats electricity, magnetism and modern physics. Laboratory is required. (Prerequisites: Course 171 and Mathematics 211 or 330.)

Advanced Undergraduate Courses

286 EXPERIMENTAL CLASSICAL PHYSICS I 1 hour. Second semester
A laboratory course meeting three hours each week. Experiments are selected from mechanics, heat, sound, optics and electromagnetism. (Prerequisite: Senior standing.)

288 EXPERIMENTAL MODERN PHYSICS I 1 hour. First semester
A laboratory course meeting three hours each week. Experiments are selected from atomic and solid-state physics. (Prerequisite: Courses 360 and 387.)

290 METHODS OF THEORETICAL PHYSICS 3 hours. Second semester
A lecture course covering mathematical techniques used in physics, including infinite series, complex numbers, vector analysis, partial differentiation, determinants and matrices, and Fourier series. No laboratory. (Prerequisite: Completion of, or concurrent registration in Physics 172 and Mathematics 212.)
310 MECHANICS 3 hours. First semester
A lecture course treating the statics and dynamics of a particle, oscillators, central-field motion, and the statics of rigid bodies. No laboratory. (Prerequisite: Course 290.)

311 MECHANICS II 2 hours. Second semester
A continuation of Course 310 covering the dynamics of a rigid body, moving coordinate systems, wave motion and Lagrange's equation. No laboratory. (Prerequisite: Course 310 and 390.)

327 ELECTRICITY AND MAGNETISM I 3 hours. First semester
A lecture course on the mathematical theory of electric and magnetic fields, including the development of Maxwell's equations. No laboratory. (Prerequisite: Course 360.)

328 ELECTRICITY AND MAGNETISM II 2 hours. Second semester
A continuation of course 327. Field theory is further developed and Maxwell's equations are applied to the study of electromagnetic radiation. No laboratory. (Prerequisite: Courses 327 and 390.)

331 MODERN CIRCUIT THEORY 2 hours. First semester
A lecture course on the modern theory of linear electric circuits. Emphasis is placed on the analogy between a circuit and a general, linear physical system. No laboratory. (Prerequisite: Courses 383 and 390.)

336 ELECTRONIC CIRCUITS 2 hours. Second semester
A lecture course on the theory of modern electronic devices and circuits. Instrumentation and transmission of information are stressed. No laboratory. (Prerequisite: Course 383.)

341 THERMODYNAMICS 3 hours. Second semester
A lecture course on the concepts and laws of Thermodynamics, with emphasis on the statistical basis of the theory. Kinetic theory is introduced. No laboratory. (Prerequisite: Course 327.)

354 OPTICS 2 hours. First semester
A lecture course, including a review of the fundamentals of geometrical optics and the principles of physical optics. (Prerequisite: Course 172.)

366 ATOMIC AND NUCLEAR PHYSICS 3 hours. Second semester
A lecture course covering particles, the Bohr atom, relativity, optical and X-ray spectra, radioactivity and an introduction to nuclear physics. No laboratory. (Prerequisite: Course 310.)

361 INTRODUCTION TO QUANTUM MECHANICS 3 hours. First semester
A continuation of Course 360, covering principles of Quantum Mechanics and application to atoms and molecules. No laboratory. (Prerequisite: Courses 360 and 390.)

382 EXPERIMENTAL NUCLEAR PHYSICS 3 hours. Second semester
A laboratory course designed to acquaint the student with the equipment of Nuclear Physics and some of the experimentation fundamental to the science. (Tutorial 2 hours, Laboratory 6 hours.) (Prerequisite: Course 172.)

383 EXPERIMENTAL ELECTRIC CIRCUITS 3 hours. First semester
A laboratory course on electric and electronic measurements. (Tutorial 2 hours, laboratory 6 hours.) (Prerequisite: Course 172.)

386 EXPERIMENTAL CLASSICAL PHYSICS II 3 hours. Second semester
A laboratory course offering more extensive experience in classical physics than course 286. (Prerequisite: Senior standing.)

388 EXPERIMENTAL MODERN PHYSICS II 3 hours. First semester
A laboratory course designed to offer more extensive experience in modern physics than course 288. (Prerequisite: Courses 360 and 383.)
390 METHODS OF THEORETICAL PHYSICS  3 hours.  First semester
A continuation of Physics 290, covering Fourier integrals, calculus of variations, special functions, partial differential equations, complex variables, probability and tensor analysis. No laboratory. (Prerequisite: Course 290.)

398 INDEPENDENT STUDY
By arrangement
Work in selected areas of physics. Credit hours variable. (Prerequisite: Departmental approval.)

399 UNDERGRADUATE RESEARCH
By arrangement
Theoretical or experimental research into selected areas of Physics. (Prerequisite: Departmental approval.) Credit hours variable.

FACULTY

EDWIN J. SCHILLINGER, Ph.D., Chairman and Professor
JULIUS J. HUPERT, Ph.D., Professor
DANIEL Q. POSIN, Ph.D., Professor
MARY L. BOAS, Ph.D., Associate Professor
Miroslav Synák, Ph.D., Associate Professor
CHARLES J. MARHOEFEER, Ph.D., Assistant Professor
JAMES J. VASA, M.S., Assistant Professor
The goal of the Department of Psychology is to acquaint students thoroughly with the methodology and content of scientific psychology with emphasis on the need for quantitative methods and scientific rigor for the understanding of human behavior and personality. At the same time attention is given showing that the science of human behavior and a sound philosophy of human nature are compatible and complementary rather than antagonistic, and to preparing students for study in advanced fields which presuppose understanding of human psychology, such as clinical and counseling psychology, vocational and educational guidance, psychobiology, human engineering, social work and the law.

Programs of Concentration

A minimum of 32 hours in Psychology, beyond Psychology 101, is required in any of the following Programs. All programs include a core comprising Psychology 242, 275 and 276.

Major students must complete 101 and, before electing any other courses in the department, must present themselves to the Chairman of the Department who will assign them to an advisor. All majors are advised to complete Psychology 242 as early as possible.

Program I. B.A. Degree Sequence. For those students who wish to major in psychology for its liberal humanizing values, and as general background for graduate study in applied psychology, or for a career in business, the law, the religious life, or medicine. Required: above core courses and seven additional courses to be determined upon consultation with advisor.

Program II. Human Development. B.A. Degree. Intended for those students who plan on a career in services to children and adults, such as the mentally handicapped or retarded, juvenile delinquency, the culturally deprived, social work, or homemaking. Required: The three core courses (242, 275, and 276) and seven additional advanced undergraduate courses, two of which relate to children or adolescents.

Program III. B.S. Degree Sequence. This program is designed for those students who wish to go on to a professional career in psychology, and who intend to pursue graduate studies in the science of psychology. Required: Psychology 242, 275, 276, 331, 352, 377 and four additional courses. In addition, students in this program will complete a minor in Biology, or Mathematics, or a combined Biology-Mathematics minor. These students should follow the B.S. curriculum in the freshman year as it is set forth in this bulletin for the freshman in the Biological Sciences, including Mathematics 130 and 131, and Biology 120a and 120b.
PROGRAM IV. Combined Undergraduate-Graduate Program leading to the Master of Arts degree. This program is designed for the superior student and requires five years for completion. Candidates should consult with the Department Chairman during the first semester of the junior year to make application to the Graduate School.

Program of Minor Concentration

A minimum of fifteen hours is required. The selection of courses beyond course 101 must be made in consultation with a staff member of the Department. It is strongly recommended that the student include Courses 242 and 275.

Lower Division Courses

101 INTRODUCTORY PSYCHOLOGY

3 hours. Each semester


242 ELEMENTARY STATISTICS

3 hours. Each semester

An elementary course in descriptive statistics in which the collection and tabulation of data, measures of central tendency, variability, skewness and graphical representation are treated. In addition, the normal probability curve, the coefficient of correlation and the concept of sampling theory are emphasized. Applications of the course material are made to problems in education, sociology and psychology. (This course may be taken for Sociology credit.)

275 EXPERIMENTAL PSYCHOLOGY I

4 hours. First semester

General methods in experimental psychology and problems in research design are discussed. Quantitative descriptions of behavior and testing of statistical hypotheses are used in laboratory studies of sensation and perception and psychological scaling. (Prerequisites: Courses 101 and 242.) (Laboratory fee: $7.50.)

276 EXPERIMENTAL PSYCHOLOGY II

4 hours. Second semester

Research designs employing more than two groups are introduced in laboratory studies of learning and problem solving. Special emphasis is given to the data and problems of definition in animal, perceptual-motor, and verbal learning. (Prerequisite: Course 275.) (Laboratory fee: $10.00.)

Advanced Undergraduate Courses

302 PERSONAL ADJUSTMENT AND MENTAL HEALTH

3 hours. Second semester

Introduction to psychological principles involved in personality and interpersonal adjustments. Frustration, conflict, and the dynamics of adaptive and maladaptive behavior. Theories and problems of mental health. Genetic and environmental influences on adjustment. Some therapeutic approaches. (Prerequisite: Course 101.) (May not be taken for credit by students who have had Psychology 300, Personality and the Behavior Disorders.)

305 SOCIAL PSYCHOLOGY

3 hours. Second semester

The study of the influence of group life on the behavior and personality development. With emphasis on the group setting, this course considers the different ways in which feelings, attitudes, beliefs, and personality are formed through impersonal and intergroup stimulation, including an analysis of role playing, culture, and social control. Various forms of collective behavior, public opinion, the behavior of interest groups, social unrest, and social movements are studied. (This course may be taken for Sociology credit.)

312 INDUSTRIAL PSYCHOLOGY

3 hours. First semester in even years

The application of the psychological principles of learning, perception, and adjustment to industry. Special attention to personnel selection and placement, motivation and morale, supervision and training. Introduction to human engineering. (Prerequisite: Course 101.)

315 DATA PROCESSING

1 hour. Offered through University College
Autumn and Winter Quarters

The use of IBM data processing equipment for the analysis of behavioral, psychological, sociological, educational, and other scientific data. The design of schedules, coding and other procedures for data analysis. Emphasis on the capabilities of the IBM Sorter. Course fee $40.00. (May be taken for Sociology credit.)

321 HISTORY AND SYSTEMS OF PSYCHOLOGY

3 hours. First semester

The historical antecedents of modern psychology. The early Greeks, Plato,

333 DEVELOPMENTAL PSYCHOLOGY I: CHILD 3 hours. First semester
Description and evaluation of principles and theories of development from conception through childhood: emotional, social, and intellectual. Influence of heredity, environment and family, with emphasis on adjustment to school and peer group; role of parents, teachers and other authority figures. Effect of emotional disturbances on school achievement and problems of preadolescence. (Prerequisite: Course 101.)

334 DEVELOPMENTAL PSYCHOLOGY II: ADOLESCENCE THROUGH ADULTHOOD 3 hours. Second semester
Continuation of 333 covering development, maturation, personality organization and adjustment. Emphasis on developmental tasks and interplay of astural, social, and personality factors. Problems of personal, social, and familial adjustment. (Prerequisite: Course 101.)

342 PSYCHOLOGY OF LEARNING 3 hours. Second semester in odd years
Survey of major historical and contemporary learning theories. Critical examination of problems, principles, methods, results, and conclusions of research in relation to each theory. (Prerequisite: Course 101.)

352 INTRODUCTION TO PSYCHOLOGICAL MEASUREMENT 3 hours. Second semester
The nature of measurement in psychology. Criteria of reliability and validity. Definition and distinctive uses of individual and group tests of aptitude, achievement and interests. Test construction and analysis of test scores. Objective tests of personality. (Materials fee: $6.00.) (Prerequisites: Courses 101 and 242.)

363 PSYCHOLOGY OF PERSONALITY 3 hours. First semester
Survey and evaluation of theories of personality development, structure and dynamics: Freudian, neo-Freudian, behavioristic, field and self theories. The role of learning determinants, cultural influences, and behavioral disorders. Methods of assessment. (Prerequisite: Course 101.)

366 ABNORMAL PSYCHOLOGY 3 hours. Second semester
Description of the nature, symptoms and dynamics of psychological disorders: the neuroses, psychophysiological reactions, personality and character disorders, schizophrenia, and the affective and organic psychoses. Theories of abnormal behavior and current therapeutic approaches. (Prerequisite: Course 101.)

368 PSYCHOLOGY OF CHILDREN'S BEHAVIOR PROBLEMS 3 hours. First semester
The major types of behavior problems in children. The role of the parents and others associated with the etiology of behavior deviation. Approaches to prevention and treatment. (Prerequisites: Courses 101 and 333.)

377 PHYSIOLOGICAL PSYCHOLOGY 3 hours. First semester
The nervous system and endocrine functions as related to behavior. Localization of function of motor, sensory, endocrine, and integrative processes of sensation, perception, audition, and emotion. Consciousness and instinct. New developments in psychopharmacology. Experimental methods of investigation. (Prerequisite: Course 101.)

396 UNDERGRADUATE SEMINAR 3 hours. First semester
Designed to provide qualified undergraduates concentrated scholarly work in selected theoretical areas under the guidance of faculty members. (Prerequisite: Senior standing and consent of Chairman.)

399 READING AND RESEARCH 3 hours. By arrangement
Intensive study in specialized areas of psychology to be determined by the student and the professor. A research paper or individual experiment shall be required. (Prerequisite: Senior standing and consent of Chairman.)

FACULTY
EDWIN S. ZOLIK, Ph.D., Chairman and Professor
CONRAD CHYATTE, Ph.D., Associate Professor
ERNEST J. DOLBYS, Ph.D., Associate Professor
GLENN D. JENSEN, Ph.D., Associate Professor
ROBERT E. BREWER, Ph.D., Assistant Professor
MARY J. K. BROWN, Ph.D., Assistant Professor
JOHN Q. O'CONNELL, C.M., M.S., Assistant Professor
AUDREY SHECHTMAN, Ph.D., Assistant Professor

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SOCIAL SCIENCES:
Interdepartmental Programs

Inter-Departmental Programs in the Social Sciences seek to meet the needs of three types of students: 1) Prospective teachers; 2) Students desiring a broad social scientific basis for the understanding of contemporary society without a definite career in mind; 3) Career-oriented students requiring specific kinds of social science background.

For the purposes of these inter-departmental programs, the social sciences consist of economics, geography, history, political science, psychology and sociology.

Programs of Major Concentration

Major concentration for prospective teachers. Consult the bulletin of the De Paul University School of Education.

Major concentration for other students. Required: ten courses in the social sciences, as defined in this section. Five of these must be taken in one department and the remaining five divided between two other departments. At least six of the total of ten courses must be numbered 300 or more.

Programs of Minor Concentration

Minor concentration for prospective teachers. Consult the bulletin of the De Paul University School of Education.

Minor concentration recommended for sociology majors planning to enter local, state, or federal government service: Political Science 103, 104, 315 or 316 and two courses in geography, preferably Geography 124 and 201.

Other students desiring minor concentrations in the social sciences should consult the Director of Inter-Departmental Programs in the Social Sciences. Usually five courses will be required: three in one of the social science departments and two in another. Although the requirements are flexible, the general rule is that at least two of the total of five courses must have the status of "advanced undergraduate courses" in the departments in which they are offered.

FACULTY
James E. McKee, Ph.D., Professor and Director.
Rosemary Bannon, Ph.D., Assistant Professor
Nancy Klein, M.A., Instructor
Cooperating members of the faculties of the several social science departments and the De Paul University School of Education.
SOCIOLOGY

The offerings of the Department of Sociology are designed to provide basic information, methodology, and theory for students planning careers in professions that promote the social well-being of the community in highly direct ways. Such professions include sociological research directors for business, governmental, and philanthropic organizations; administrators for public and private welfare, rehabilitation, civic, recreational, police, and correctional agencies; teachers and administrators in urban public and private elementary and high schools; sociological advisors at the university level and social workers. It is emphasized that this undergraduate program is fundamental or basic in the sense that it constitutes the foundation for higher academic and professional training to be pursued at the graduate level. The student whose career interest lies outside sociology will find, nevertheless, that the courses in this department provide him with an intelligent comprehension of modern social life as part of his general education.

Programs of Concentration

MAJOR CONCENTRATION. Prerequisites: Sociology 101. Required: Sociology 242, 305, 334, 382 and five additional advanced undergraduate courses in Sociology; Economics 103 and 104; Psychology 101. See listing under Social Sciences for recommended minor for those planning to enter government service.

MINOR CONCENTRATION. Prerequisite: Sociology 101. Required: Four undergraduate courses in Sociology.

Lower Division Courses

101 GENERAL SOCIOLOGY 3 hours. Each semester
In this course the student becomes familiar with the terms, concepts, and demonstrated ideas that constitute the principles of sociology. This is accomplished through the rigorous study of man as a member of primary groups, classes, occupational groups, and of society as a whole. Attention is also focused on patterns of structural change in such social institutions as the economy, government, family, and educational system. These social changes are analyzed in terms of basic causes as invention, discovery, diffusion of knowledge, materially improved living conditions, population increase, and urban expansion.

202 MINORITY RELATIONS 3 hours. Second semester
A study of social group relations in the context of contemporary concern for civil rights and poverty. Emphasis is placed on the following: identification of racial, religious, and national minorities; elements of prejudice and discrimination; growth of intergroup tensions, social structure and minority status; positive aspects of superordinate-subordinate group relations. (Prerequisite: Course 101.)

204 CURRENT SOCIAL PROBLEMS 3 hours. First semester
A survey of the range and severity of the major problems confronting American society: race relations, unemployment, poverty, alcoholism, drug addiction, marital problems, mental illness, delinquency, and crime. Special attention is given to the interrelationship of personal and social problems. Remedial measures are evaluated. (Prerequisite: Course 101.)

212 THE FAMILY 3 hours. Second semester
This course is to give the student perspective in viewing the present day problems of the family. The family is studied as a social structure or social institution characterized by both stability and change. Current patterns of
American family organization are concentrated with the family patterns of other cultures and with earlier American patterns. (Prerequisite: Course 101.)

242 ELEMENTARY STATISTICS 3 hours. Each semester
An elementary course in descriptive statistics in which the collection and tabulation of data, measures of central tendency, variability, skewness and graphical representation are treated. In addition, the normal probability curve, the coefficient of correlation and the concept of sampling theory are emphasized. Applications of the course material are made to problems in education, sociology and psychology. (This course may be taken for Psychology credit.)

302 CULTURAL ANTHROPOLOGY 3 hours. First semester
A comparative study of modes of human life under the cultures of a variety of societies ranging from the primitive to the industrial. The material and ideological culture traits of the different societies are analyzed in order to discover both unique and common features. Special attention is given to the roles of invention and diffusion in the process of cultural change. (Prerequisite: Course 101.)

305 SOCIAL PSYCHOLOGY 3 hours. Second semester
The study of the influence of group life on the behavior and personality development. With emphasis on the group setting, this course considers the different ways in which feelings, attitudes, beliefs, and personality are formed through impersonal and intergroup stimulation, including an analysis of role playing, culture, and social control. Various forms of collective behavior, public opinion, the behavior of interest groups, social unrest, and social movements are studied. (This course may be taken for Psychology credit.)

315 DATA PROCESSING 1 hour. Offered through University College Autumn and Winter Quarters
The use of IBM data processing equipment for the analysis of behavioral, psychological, sociological, educational, and other scientific data. The design of schedules, coding and other procedures for data analysis. Emphasis on the capabilities of the IBM Sorter. Course fee $40.00. (This course may be taken for Psychology credit.)

318 HISTORY OF SOCIOLOGICAL THOUGHT 3 hours. First semester
A critical review of the works of key thinkers on the nature of man and society. In addition to highly objective authors who achieved a degree of emotional detachment or objectivity regarding their subject matter, partisan writers who fermented perspective-giving controversies are treated. Both made contributions to current sociological theories and methods. Plato, Aristotle, the Stoics, the Epicureans, the Utopians, and the Social Contract Theorists are considered as well as recent thinkers as Comte, Spencer, Ward, and Sumner.

334 SOCILOGICAL THEORY 3 hours. Second semester
A critical survey of the attempts of various schools of sociological thinkers and individual sociologists to construct a theoretical framework that would organize sociological knowledge into an integrated scheme. The strengths and weaknesses of sociological theories patterned after those of physics, biology, and other sciences are equally considered. (Prerequisite: Course 101.)

350 URBAN SOCIOLOGY 3 hours. Each semester
A study of the roles of industrialism, ethnic and racial immigration, neighborhood development and decline, and economic and social status competition in the rise of great American cities and the inception of their current problems. Theories of urban growth, change, and renewal along with their usual kind of supporting evidence will be examined critically. The difficulties faced by schools and other neighborhood institutions attempting to perform their assigned tasks amid local disorganization and instability will be treated with specific reference to the Chicago scene. Attention will also be given to techniques for measuring progress toward control of local problems.

367 CRIMINOLOGY 3 hours. Second semester
A review and evaluation of theories regarding the causes of crime: biological, economic, associational, social psychologial, and psychiatric. Consideration is given to both the actual amount of crime and the reported amount as influenced by community tolerance and the accuracy of police statistics. The problem of equality before the law, occasioned by importance of wealth, status, and influence in avoiding arrest and conviction is also treated. Moreover, the distinction between professional and nonprofessional criminals is clarified. Although crime is a serious problem, the purpose of the course is to show it in perspective as one of many aspects of the broader problem of social disorganization. (Prerequisite: Course 101.)

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370 THE TREATMENT OF DELINQUENTS I: PUBLIC AGENCIES
3 hours. Offered through the University College, Autumn Quarter
There will be one late afternoon weekly class meeting of one hour and fifty
minutes at the Frank J. Lewis Center. An average of two hours a week must
be reserved for visits and field trips to institutions. Often these will be on Satur-
days. This course is designed to acquaint the student with public services and
public programs available for the treatment of delinquents and the prevention of
delinquency: law-enforcement agencies, custodial institutions, special schools,
probation and parole systems, and youth commissions. Particular attention will
be given to the assumptions, techniques, and procedures of these facilities.

371 THE TREATMENT OF DELINQUENTS II: PRIVATE AGENCIES
3 hours. Offered through the University College, Winter Quarter
There will be one late afternoon weekly class meeting of one hour and fifty
minutes at the Frank J. Lewis Center. An average of two hours a week must be
reserved for visits and field trips. Often these will be on Saturdays. The purpose
of this course is to familiarize the student with programs of private agencies and
neighborhood and community organizations for the treatment of pre-delinquents,
delinquents, and "hard to reach" youth in the inner-city. The control and pre-
vention operations of these facilities will be examined critically. Special atten-
tion will be given to the assumptions, techniques, and procedures employed.

380 INDUSTRIAL SOCIOLOGY
3 hours. Second semester
The study of the impact of the corporation atmosphere and career ethic
upon the social attitudes and patterns of conformity of members of industrial
society. The functions, aspirations, and status problems of executives, supervisors,
scientists, and skilled and unskilled workers are reviewed. Plans to make cor-
poration ways both more efficient and more pleasant are evaluated.

382 RESEARCH METHODS IN SOCIOLOGY
3 hours. First semester
A study of major pieces of research in several fields of sociology in order
to gain understanding of the processes of selecting and formulating research
problems, designing research plans, and collecting and interpreting relevant data.
Attention will be given to the use of computers. Research is stressed as a cre-
ative process and as the principal means of expanding sociological knowledge.
(Prerequisites: Courses 101 and 242.)

392 PRACTICUM IN DELINQUENCY PREVENTION
3 hours. Offered through the University College. Spring Quarter
Observation of and active participation in the structuring and evaluating of
community programs to prevent and reduce delinquency. This is done under the
guidance of experienced professional sociologists in the field. (Prerequisite: Per-
mission of the Chairman of the Department of Sociology.)

399 READING AND RESEARCH
3 hours. By arrangement
For seniors with outstanding records of scholarly achievement who are
able to assume maximum intellectual initiative. A plan for an intensive
study of a specialized area of sociology is to be prepared by the student and
presented to the Chairman of the Department of Sociology. After approval the
student must carry out the plan systematically. Each week he will report this
progress to the chairman or an assigned advisor who evaluates his work and
makes criticisms and suggestions. The end product must be a high grade research
paper. (Prerequisites: Senior status with a major in sociology and permission of
the Chairman of the Sociology Department.)

401 ADVANCED RESEARCH METHODS IN SOCIOLOGY
3 hours. Second semester
The designing and implementing of pilot studies to prepare the student to
carry out his own major piece of sociological research in the future. The possi-
bilities of expanding promising pilot studies into full scale researches that will
form the basis for masters' theses will be considered. (Prerequisites: Course 382,
senior standing, and conditional acceptance by the De Paul University Graduate
School.)

FACULTY
James E. McKown, Ph.D., Chairman and Professor of Sociology
William T. Gaughan, C.M., Ph.D., Professor
Rosemary Bannan, Ph.D., Assistant Professor
Lavinia Raymond, Ph.D., Assistant Professor
Nancy Klein, M.A., Instructor
Donald Klein, M.A., Lecturer
J. Stanford Larson, M.S., Lecturer
Anthony Sorrentino, B.S., Lecturer
The curriculum in the Department of Speech aims to meet the needs of those students who desire to obtain some knowledge of speech as part of their general education, to prepare future teachers of speech or to prepare students for other professional speech fields.

Departmental Policy for Speech Majors

All students expecting to major in Speech must make this fact known in writing to the department chairman no later than the end of the first semester of the junior year. At that time an interview will be scheduled with the Chairman and with the Speech faculty member who specializes in the student's particular area of interest (e.g., Drama, Interpretation, Public Address).

The Speech Department believes that a sound undergraduate education in Speech may be achieved only by combining classroom theory with actual platform and/or stage experience. Therefore, during their junior and senior years, all Speech majors are required to participate in at least one extra-curricular activity under faculty supervision. Thus, for instance, the student whose primary interest is Drama will be expected to act and do technical work in the departmental plays; the student whose primary interest is Interpretation will be expected to participate in platform recitals; the student whose primary interest is Public Address will be expected to participate in debate. For a broader background in communications, students are encouraged to participate in as many Speech activities as their time and energy allow.

Programs of Concentration

MAJOR CONCENTRATION. Required: 30 semester hours including Speech 202, 203, 204, 212, 230, 231; choice of 310 or 312 or 360; choice of 221 or 320 or 321; and either 351 or 353; one elective course.

MINOR CONCENTRATION. Required: Courses in speech totaling 15 semester hours including Speech 202, 203, 204 and 212.

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Lower Division Courses

202 FUNDAMENTALS OF GROUP DISCUSSION
3 hours
A study of the principles, methods and types of group discussion as a means of learning, understanding and problem solving. Emphasis is placed upon acquiring knowledge and skills in leadership, the group process and interpersonal relationships.

203 FUNDAMENTALS OF ORAL INTERPRETATION
3 hours
Study of the principles underlying the effective oral interpretation of literature, accompanied by practice in selection, preparation, and presentation of oral reading from literature of various types, including poetry and drama.

204 FUNDAMENTALS OF PUBLIC SPEAKING
3 hours
A course concerned with the principles and skills of speechmaking. Attention is given to the context, organization, style and delivery of public address. Emphasis is placed upon critical analysis of classroom performance as well as upon selected literature from historical and contemporary speakers.

212 TRAINING IN VOICE AND ARTICULATION
3 hours
A lecture-laboratory course which considers the physics of the speech mechanism, theories of voice production, and training in the recognition and production of English sounds through drill in phonetics. A continuing analysis of each student's voice, articulation, and pronunciation provides the basis for directed exercise and practice which lead to improvement in voice usage and articulation.

Advanced Undergraduate Courses

221 ARGUMENTATION AND DEBATE
3 hours
Presents an investigation of traditional and contemporary theory as applied to critical thinking and strategy involved in argumentation, debate and other forms of oral advocacy. Class debates are designed to provide experience for students in argumentative speaking. (Prerequisite: 101 or 202 or 203.)

222 HISTORY OF PUBLIC ADDRESS
3 hours
An analysis of selected speeches of representative American statesmen, clergymen and other leaders of social thought. Consideration is given to the historical context in which they spoke, to the rhetorical techniques employed by individual speakers and to the importance of public address as a means of social control. (Prerequisite: Course 101 or 202, 203 or 204.)

230 HISTORY OF THE THEATER
3 hours
A survey course tracing the origins and development of theatre from primitive dance-drama to the present day. Emphasis is given to the persons, movements, and events which have had a particular influence upon theater. (Prerequisite: Course 101 or 202 or 203, or 204.)

231 HISTORY OF SPEECH EDUCATION
3 hours
A survey course tracing the chief names in rhetorical (Aristotle to Winants), homiletical (Augustine to Whitelaw), and declamatory (Mason to Woolbert) theory and their major contributions. Students will be assigned reports on the principal theorists and on certain orators, preachers and readers whose work exemplified important principles. (Prerequisite: Course 101 or 202 or 203, or 204.) (Required of all majors.)(In conjunction with the School of Education.)

310 ORAL INTERPRETATION II
3 hours
A study of the theory, principles, and techniques of the interpretation of poetry, prose, and drama. High standards of performance in terms of analysis of materials and their presentation in classroom assignments will be emphasized. (Prerequisite: Course 203.)

312 ACTING
3 hours
A study of the basic techniques of acting involving training of voice, stage speech, and pantomime. Emphasis is placed upon improvisation, concentration, and emotional recall as they relate to the problems of characterization. Students prepare scenes for classroom presentation. (Prerequisite: 203 or 212 or consent of instructors.)

313 ADVANCED ACTING
3 hours
An advanced course with intensive work in the techniques of acting. Students receive training in the dramatic styles of selected periods. Consideration is given to the problems of creating a role for comedy, tragedy, melodrama, and
fare. Students are required to do a research paper in connection with the creation of a selected role. (Prerequisite: 312 or its equivalent or consent of instructor.)

314 PLAY PRODUCTION 3 hours
A basic lecture-laboratory course in the theory and practice of theater production. The laboratory provides for the application of principles to the production problems of scenery, costuming, lighting, properties and make-up. (Prerequisite: Two lower division speech courses.)

315 DIRECTING 3 hours
A study of the basic principles of play directing. The major theories of directing are explored. The course involves practical experience in directing in that each student is required to direct a number of scenes for classroom presentation. (Prerequisite: Any one of the following: 202, 203, 204.)

320 FORMS OF PUBLIC ADDRESS 3 hours
An advanced course in public speaking which concentrates on the more important speech forms and their occasions. Consideration is given to orations, speeches of courtesy, introductory, after-dinner, commemorative speeches, and expository lectures. (Prerequisite: Course 161 or 204.)

321 PERSUASION 3 hours
A study of the principles that influence the belief and action of audiences. Emphasis will be placed upon the development of persuasive skills and an awareness of the nature and effects of persuasion in contemporary society. (Prerequisite: Speech 202 or 203 or 204.)

322 ORAL INTERPRETATION OF PROSE 3 hours
A study of the form and content of short stories, novels, biographies and histories with attention to problems affecting their oral interpretation. (Prerequisite: Six hours in Speech including 203.)

323 ORAL INTERPRETATION OF POETRY 3 hours
A study of the form and content of types of Nineteenth and Twentieth Century British and American poetry with attention to problems affecting their oral interpretation. (Prerequisite: Six hours in Speech including 203.)

340 RADIO BROADCASTING 3 hours
A course covering basic ideas, tools, and techniques of radio and television broadcasting. (Prerequisites: Course 101 or 203.) (Laboratory Fee $5.00.)

343 PLAYWRITING 3 hours
Basic techniques of dramatic writing for the theatre, coffeehouse revue, and television. Analysis and writing of short plays and monologues. Open to juniors and seniors.

351 THE TEACHING OF SPEECH IN THE SECONDARY SCHOOLS 3 hours
A study of the methods, materials and some of the major problems related to the teaching of speech on the secondary level. Attention will be given to extracurricular speech activities and programs. (Prerequisite: two courses from 202, 203, 204.)

353 SPEECH CORRECTION AND THE CLASSROOM TEACHER 3 hours
A course designed for the classroom teachers who may encounter speech defects in members of their classes. Training in the recognition, diagnosis, and treatment of such minor defects, with discussions of handling major problems. (In conjunction with the School of Education.) (Prerequisite: Two lower division speech courses.)

360 CREATIVE INTERPRETATION 3 hours
A study of the creative aspects of interpretation: original character studies; monologues; adaptations of prose and drama for platform presentation; program building. (Prerequisite: Two lower division speech courses.) Open to juniors and seniors only.

399 INDEPENDENT STUDY IN SPEECH
By arrangement
Qualified students will be given opportunity to undertake directed studies in various speech areas. (Prerequisites: Nine hours in speech and consent of the Speech Department.)

FACULTY
FRANK ANDERSON, Ph.D., Chairman and Assistant Professor
RUTH LUKANITCHE, Ph.D., Assistant Professor
VIRGINIA RUTHERFORD, Ph.D., Assistant Professor
PHILIP BOYD STEVENS, M.A., Instructor

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Because Theology is a science it is primarily a matter of intellectual enrichment. Because it is practical as well as speculative, this intellectual development should serve in turn as a guide and stimulant to the spiritual life and vocation of the educated Catholic layman. It is the object of the Department of Theology, then, to offer courses that will deepen the understanding of the object of Faith and strengthen the power of Faith to invest human living with ultimate meaningfulness.

Catholic students are required to take four courses in Theology (eight semester hours). Non-Catholic students are exempted from this requirement. They are free to register for any course in Theology in which they may be interested.

The descriptions below define courses in general terms by area and type. Starred courses may be repeated for credit.

**101 FOUNDATIONS OF THE CATHOLIC MIND** 2 hours
This course treats: 1) Of the Church, (a) its nature, (b) its activity, (c) its properties, and (b) its members; 2) The elementary principles of human action: end, freedom, the norms of morality, law, conscience and habit. (Prerequisite: None.)

**102 THE CATHOLIC MIND AND THE MODERN WORLD** 2 hours
This course treats: (a) the special principles of human action; the infused theological and cardinal virtues, and (b) contemporary moral problems. (Prerequisite: Theology 101.)

**103 THE MYSTERY OF CHRISTIANITY** 2 hours.
This course treats the significant developments that have occurred in the theology of the Church in the course of the present century. (Prerequisite: None.)

**104 ANCIENT CHRISTIAN SOURCES** 2 hours
This course treats of the Fathers of the first six centuries as witnesses to primitive faith and order in the Church, and their writings as sources of theological tradition. (Prerequisite: None.)

*106 MODERN MORAL PROBLEMS* 2 hours
This course seeks to promote recognition of the vitality of contemporary thought on moral problems currently under discussion by Catholic theologians. (Prerequisite: None.)
105 BELIEFS OF NON-CATHOLICS
This course will contribute to the ecumenical understanding which recent popes have urged, of the beliefs, history, and organization of Protestant and other non-Catholic religions.

107 CHRISTIAN PERFECTION
This course treats of the nature of the interior life as it can be achieved in the state of marriage or of the single person in the world. The three ways of the interior life. The practice of mental prayer. (Prerequisite: None.)

108 CONTEMPORARY CATHOLIC THOUGHT
A course designed to permit study of those topics and areas which reveal the development and viability of theology in contemporary society. (Prerequisite: None.)

110 THE LAYMAN IN THE CHURCH
This course treats of the significance for the Church and the layman of the increasing emphasis in current theology on the role of the layman in the Church. (Prerequisite: None.)

111 PRINCIPLES OF THE CATHOLIC MIND I
This course treats: (a) the mystery of the Most Blessed Trinity; (b) Predestination; (c) Divine Governance of the universe; (d) Original sin; and (e) the Incarnation. (Prerequisite: Sophomore standing.)

112 PRINCIPLES OF THE CATHOLIC MIND II
This course continues Theology 111 and treats: (a) the Redemption; (b) the nature of grace; its effects, properties, necessity, and distribution; (c) the Sacraments, which are the supernatural sign and cause of grace; and (d) of Christian marriage as a sacrament. (Prerequisite: Theology 111.)

114 THE PROBLEM OF EVIL
In every age men have grappled with the "mystery of iniquity." This course proposes that in the light of divine revelation evil is seen to be sacramentally meaningful. (Prerequisite: Sophomore standing.)

164 LITURGY
This course treats the nature of liturgical prayer, particularly in the Sacraments and in the Sacrifice of the Mass; the history of liturgical development; practice of participation in the liturgy. (Prerequisite: None.)

169 THE NEW TESTAMENT
This course develops an understanding of the books of the New Testament intsofar as they reflect the theological development that took place in the nascent Church under the impetus of the Holy Spirit. (Prerequisite: None.)

180 THE OLD TESTAMENT
This course treats the Bible as the inspired account of God's plan to save men through membership in the visible kingdom of God on earth, the Church. (Prerequisite: None.)

190 MARRIAGE, HOME AND FAMILY
This course treats: (a) the nature, purpose and properties of Christian marriage; (b) preparation for marriage; (c) the obstacles to the sublime sanctity of Christian marriage. (Prerequisite: None.)

309 SEMINAR IN CONTEMPORARY CATHOLIC THOUGHT
Directed readings in the theological literature reporting the results of current theological research.

FACULTY
WILLIAM T. CORTELEZI, C.M., S.T.D., Chairman and Associate Professor
SIMON SMITH, C.M., S.T.D., Professor
PATRICK O'BRIEN, C.M., M.A., S.T.D., Associate Professor
JOHN WEISENGOFF, S.T.D., S.S.L., Associate Professor
HUGO AMICO, O.S.B., M.Sc., J.C.D., S.T.D., Assistant Professor
IGNATIUS R. CAMPBELL, O.P., S.T.L., Assistant Professor
JOSEPH COZY, C.M., J.C.L., Assistant Professor
EDMUND FITZPATRICK, S.T.D., Assistant Professor
PAUL MAHONEY, O.P., S.T.L., Assistant Professor
JAMES O'SULLIVAN, C.M., J.C.D., Assistant Professor
ADMISSION
AND REGISTRATION

The Office of Admissions endeavors to select for admission those students whose qualifications indicate a likelihood of success in the programs offered at De Paul University. The University reserves the right to reject the application of any student who fails to meet the requirements—academic, character, or health.

Admission as a Freshman

1. The University recommends that students who wish to be considered for admission to De Paul University as freshmen complete 16 units of high school work including at least 4 units in English, 2 units in mathematics, 2 units in one language, 1 unit in a laboratory science, and 1 unit in history. Students are encouraged to complete additional academic units, e.g., those who intend to major in Biology, Chemistry, Physics, or Liberal Arts-Engineering are advised to offer additional units in mathematics, French, or German.

2. Applicants are required to submit scores earned on the Scholastic Aptitude Test of the College Entrance Examination Board. If a student does not submit SAT scores, he will be required to take the De Paul University Entrance Examination.

Admission from Another College or University

1. A student may be admitted on transfer from another accredited college or university provided the student was in good academic standing in the college last attended and had an acceptable scholastic average.

2. Students seeking admission from another college or university where they have completed less than 18 semester hours of work are required to submit scores earned on the Scholastic Aptitude Test of the College Entrance Examination Board. (Scores earned on the SAT taken while in high school are acceptable.) If a student does not submit SAT scores, he will be required to take the De Paul University Entrance Examination.

In evaluating credits from another college or university, no credit is allowed for courses completed with the lowest passing grade.

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Procedure for Admission

1. File an application with the Office of Admissions, De Paul University, 25 East Jackson Boulevard, Chicago 4, Illinois, together with the $10 application fee. (Application forms may be obtained from the Office of Admissions upon request.)

2. Arrange to have a high school transcript sent to the Office of Admissions. Transfer students must also have a transcript of credits sent to the Office of Admissions from each college or university attended.

3. Arrange to have a report of scores earned on the Scholastic Aptitude Test of the College Entrance Examination Board sent to the Office of Admissions.

Transfer students who have completed less than 18 semester hours of work are also required to submit SAT scores. (Scores earned on the SAT taken while in high school are acceptable.)

4. If SAT scores are not available, the student is requested to indicate on the application form when he wishes to take the De Paul University entrance examination. (In these cases, a card will be sent to the applicant admitting him to the examination on the date specified on the application.)

Applicants from high school are encouraged to file applications early in the senior year. Ordinarily, decisions on applications are made on the basis of seven semesters of high school work. (See Early Decision below.)

EARLY DECISION

Qualified students may apply for admission upon completion of the junior year of high school. The student may submit scores earned on the SAT taken during the junior year of high school. Or, the student may take the SAT or the De Paul University entrance examination in the summer following the junior year.

Students are accepted under the Early Decision plan with the provision that they complete satisfactorily the senior year of high school.

ADVANCED PLACEMENT

De Paul University honors the Advanced Placement Program as administered by the College Entrance Examination Board.

Advanced placement with credit may be granted in all areas in which advanced placement tests are given. Students who earn scores of 5 or 4 in any test will automatically receive advanced placement with credit. Students presenting a test score of 3 or 2 in any area may receive advanced placement with credit upon approval of the department chairman.

No advanced placement is granted without credit.

The College of Liberal Arts and Sciences offers to entering freshmen the opportunity of Advanced Placement for its own internal purposes and independently of the national program of the College Entrance Examination Board.

Offered in May, these Advanced Placement Tests enable any candidate of superior preparation to earn credit by examination in history, mathematics, and English.

COMPETENCY TESTS

Competency tests in mathematics, carrying no credit, are required of all students who plan to major in mathematics or in a science (biology, chemistry, or physics). This examination determines at what level a student is prepared to begin work for his major field of concentration.

Competency tests are administered in May and in September.
RE-ADMISSION OF FORMER STUDENTS

Former students who have been absent from the university for one semester must file an application form in the Office of Admissions when seeking re-admission to the University. If, while absent from De Paul University, the student has taken college work elsewhere a transcript of that work must be sent to the Office of Admissions, before action on re-admission is taken.

Transfer with Advanced Standing

Classification of Students

Upon admission students are classified according to the following categories:

REGULAR—one who has met fully the entrance requirements of the University.

SPECIAL—one who does not satisfy the entrance requirements of the particular college in which he wishes to register, but is permitted to enter those courses for which maturity, educational background, and professional experience have prepared him. Courses thus completed may subsequently be applied toward a degree if proper credentials are presented, upon decision of the Dean of the College.

REGISTRATION

1. Each student is required to register in person before the first day of the semester.
2. No student can receive credit for any subject taken in a class for which he has not been duly registered.
3. A student may not enroll for less than twelve semester hours nor for more than nineteen semester hours without the approval of his program by the Dean.
4. Registration is not complete until financial arrangements have been made.
5. Students who are engaged in outside work of any kind greater than twelve hours a week should carry a restricted program.
6. Students placed on probation may not enroll for more than twelve hours.
7. A course dropped without permission of the Dean is regarded as a failure and is so recorded.
8. Required courses take precedence over elective courses.
9. All registration data are processed by IBM machines. Registrants must be careful to form carefully each letter and numeral as it is called for, else some permanent error may result in their class records.
10. Upon his first registration in De Paul University, the student will be assigned a permanent registration number. It will appear on his identification card. At every subsequent registration this permanent number is to be entered on the registration form.
11. Students of the College of Liberal Arts and Sciences are free to register for courses offered in other colleges of the University, according to need. Such students will always register in the Office of the College of Liberal Arts and Sciences. The IBM machinery processing will then distribute the information to the proper offices.
12. Since all registration data are machine processed, students who wish to drop a class are advised to take prompt action. Professors must be meticulous in taking the roll of their classes, since the IBM machinery has no other way of knowing that the student is not present.
13. Students may not change from the status of a credit student to that of an auditor, or vice versa, after the fourth meeting of a class.
14. Students-at-large from other colleges or universities must present a letter of good standing with specific approval from their Dean or Registrar for the courses for which they register.
15. The right is reserved to cancel any course.
16. At his first registration each student must provide for the General office of the College of Liberal Arts and Sciences, two wallet size photos of himself for file purposes, each bearing on the reverse side his name and address.

Residence and Graduation Requirements

1. A minimum of one year's residence, 32 semester hours, and one-half of the work in the major field must be completed at De Paul.
2. All courses in the senior year must be taken in residence.
3. In given departments, requirements for graduation with the degree proper to the department may be changed from time to time. Until his graduation, the student is governed by the requirements which are in force at the time he came under the jurisdiction of the department. Regular students who have been out of residence for one calendar year or longer will be governed by the degree requirements prevailing at the time of re-entry to the University.
4. A minimum of 128 semester hours and 256 quality points (see page 99) is required for graduation. In every case the total quality points must equal twice the number of semester hours attempted.
5. A senior who receives a grade of F in the last term, whether or not the course is required for graduation, will not be eligible for graduation at the next convocation.
6. Students must file application for degree at the beginning of the senior year.
7. All graduating seniors are required to take the Graduate Record Examinations during their senior year.
8. All students who are to receive degrees are required to be present at the graduation exercises unless excused by the Dean. In seeking permission to graduate in absentia, the candidate must present his reasons in a letter to the Dean and must make arrangements for the mailing of the diploma.

Graduation with Honors

The distinction "with highest honor" is conferred upon those who have demonstrated rare scholastic ability by obtaining a 3.8 grade point average. The distinction "with high honor" is conferred upon those obtaining a 3.7 grade point average. The distinction "with honor" is conferred upon those who have demonstrated definitely superior ability by obtaining a 3.6 grade point average.

Students must have completed at least one-half of the degree requirements in the college conferring the honor and be recommended by the Dean and a committee of the faculty.

Beginning with the graduating class of 1967, graduation with honors for students seeking the Bachelor of Arts degree will be limited to those participating in the Honors Program.

Graduation with Departmental Honors is conferred in the Department of Chemistry, the Department of Mathematics and the Department of Physics.
GENERAL REGULATIONS

General Regulations and Information

Credit

For administrative purposes not related to admission, students enrolled in the College of Liberal Arts are classified according to progress toward graduation as follows:

Freshmen—26 semester hours of credit or less.
Sophomores—at least 27 and not more than 54 semester hours of credit.
Juniors—at least 55 and not more than 87 semester hours of credit.
Seniors—at least 88 semester hours of credit.

The unit of credit is the semester hour, which is one classroom hour of lecture a week for a semester. Several hours of laboratory work per week are equivalent to one lecture hour, the number varying with different courses.

Programs and Schedules

Students are held responsible for making out their own program and schedules. They must follow, however, the sequences and requirements laid down for the program they are pursuing toward a degree. Each schedule when completed must be approved officially. Students pursuing professional programs are obliged to follow the prescribed subjects as listed under each program. Where electives are indicated they may be guided by their interests or needs.

Freshman and Sophomore Years

Advanced placement will be granted in the fields of English, History and Mathematics to incoming Freshmen, on the basis of the results of the Advanced Placement examinations. Arrangements to take these examinations will be made by the student under the auspices of his high school.

Freshmen and sophomores should limit their program to the general education requirements for the degree so that they can complete as many as possible of these requirements in their first two years.

All freshman schedules will include English composition, natural sciences or mathematics, philosophy, and theology.

Those who begin the study of a foreign language will be obliged to take four courses to meet the requirements for the Bachelor of Arts degree.
freshman who has already started a foreign language is permitted to enter any advanced course for which his previous training has qualified him. One year of language in high school is equivalent to one semester of the language in College. Four years of one language in high school completes the general language competency required in the College.

Students whose field of concentration is in the natural sciences or mathematics will be obliged to complete Course 104 (or its equivalent in high school courses or in special credit-by-examination sessions) in French or German, to meet the foreign language requirement for the Bachelor of Science degree. Chemistry majors are required to take German as a foreign language.

In the sophomore year, the liberal arts student will determine his field of concentration, choose his major, and establish the proper sequence under the direction of department heads and his educational counselor.

JUNIOR AND SENIOR YEARS

When registering for the junior year the student should check his program against the specific requirements for his degree and should seek to complete as many of the requirements as possible in order to leave the senior year free for intensive work in his field of concentration. An advisor in the department in which the student is majoring should be consulted in planning a program.

A grade of D is not counted in the field of concentration; the course is either repeated or an appropriate substitution is made.

COURSE NUMBERS

Courses numbered 100 to 199 inclusive are undergraduate courses normally taken during the freshman and sophomore years. Courses from 200 to 299 inclusive are advanced undergraduate courses normally taken during the junior and senior years. Courses numbered 300 to 399 inclusive are advanced undergraduate courses which are normally taken in the junior and senior years and are also acceptable for graduate credit within the limitations stipulated by the departments and the Graduate School.

TRANSCRIPTS OF CREDITS

Students wishing transcripts of credits for any purpose should request them at least a week in advance of the time needed.

Transcripts of credits are sent directly to the institution designated by the student. Transcripts intended for the student's own use are so indicated and are not certified as official.

Official transcripts of credit earned at other institutions are a part of the student's permanent record at DePaul University and are not reissued or copied for distribution. If needed, they must be obtained directly from the institution in question.

Transcripts will be issued only after the student has fulfilled all his financial obligations to the University.

ATTENDANCE

Regularity in attendance for classroom and laboratory work is insisted upon. There are no excused absences. In general, four absences are deemed sufficient to take care of illnesses, deaths in the family, and other such emergencies. An excessive number of absences will cause the student to be dropped automatically from the course with FX (failure because of excessive absences or unapproved withdrawal).

Tardiness of more than ten minutes is counted as an absence. Tardiness of less than ten minutes is counted as one-half an absence.

Students who absent themselves the day before or the day after holidays or on the day of an announced quiz will be given twice the number of absences. This regulation applies not only to single holidays but also to the Thanksgiving, Christmas, and Easter holidays.
EXAMINATIONS AND GRADES

Written examinations are held in all of the departments at mid-semester and at the end of the semester. A report based upon the results of his achievement will be sent at the end of each semester to the student. Following is the key to the system of grading:

- A indicates excellent achievement.
- B indicates achievement that is above average.
- C indicates average or basic achievement.
- D indicates achievement that is less than average but sufficiently high to warrant passing.
- F indicates failure to meet the minimum requirements of a course.
- I indicates that the course lacks completion at the time the grade is due.
- WP indicates that the student withdrew from a course before the end of the semester and was passing at the time of withdrawal.
- WF indicates that the student withdrew from the course before the end of the semester and was failing at the time of withdrawal.
- FX indicates failure due to excessive absences or unapproved withdrawal.

A grade of Incomplete, I, must be removed before the end of the following semester. Responsibility for its removal rests entirely with the student. Failure to do so automatically reduces the grade to F.

Make-up examinations will be scheduled by the Dean. A fee of $5.00 is charged for the examination. Applications for make-up examinations must be filed in the Dean's office.

QUALITY POINTS

Quality points are awarded according to the standing received in a given course. A grade of A entitles the student to four times as many quality points as the credit hours assigned to the course, a grade of B to three times the number of hours, a grade of C to twice the number of hours, a grade of D to as many quality points as there are hours in the course. A grade of F, FW, or FX does not carry any quality points.

(For graduation from the College of Liberal Arts and Sciences the number of quality points must equal twice the number of semester hours attempted excepting courses marked W or WP.) Thus, a student who graduates with 128 semester hours credit must have a minimum of 256 quality points.

If a student at any time has failed to obtain twice as many quality points as semester hours, he may be considered as seriously deficient and therefore subject to the ruling on probation.

DEAN'S LIST

Students who maintain a B average or better, are automatically placed on the Dean's list. The list is published at the end of each semester.

DISCIPLINE

The authorities do not hold themselves responsible for the conduct of the students outside the University premises; but for the honor of the institution they will hold students to strict accountability for serious faults wherever committed. In this connection the University Council assumes absolute right to dismiss students for the commission of whatever misdemeanors it may deem justly punishable by expulsion.

PROBATION

1. A student will be placed on academic probation if:
   a) At the end of the 1st semester of the freshman year his grade point average is less than 1.700.
   b) At the end of the 2nd semester of the freshman year his grade point average is less than 1.800.
   c) At the end of the 1st semester of the sophomore year and throughout his remaining college career his grade point average is less than 2.000.
2. A student will be subject to dismissal from the University if at any time he fails, after having been placed on probation, to attain the required grade point average as stipulated. A student, whether on probation or not, will be subject to dismissal if the Dean at any time determines that he is deficient in his achievement.

3. A student who is on probation will be debarred:
   a) From holding any class office.
   b) From participation in all inter-collegiate athletics.
   c) From holding the editorship of either the yearbook or the newspaper.
   d) From holding office in any of the school organizations or societies.

ACADEMIC SUSPENSION

Students on probation are further liable to the condition of academic suspension. Anyone who incurs two incompletes while on probation enters academic suspension. His present registration is withdrawn, and further registration is prohibited until the incompletes are satisfactorily completed. Usually, the student who succeeds in lifting academic suspension will remain on probation.

A student excluded from any college of the University will not be eligible for registration for a period of one semester subsequent to such exclusion and then he must apply for re-entry through the Admissions Office.

ACCOMMODATIONS

The University has no dormitories for its students. The office of Admissions has on file at all times a list of available accommodations and will be pleased to assist in properly placing students.

TUITION AND FEES

Tuition—each semester hour ........................................ $30.00a
Tuition for 16 semester hours (average load) ........................ 480.00a
Application fee (non-refundable) ...................................... 10.00
Registration Fee .......................................................... 2.00b
Late Registration Fee ..................................................... 3.00
Change of Registration Fee ............................................... 2.00
Biology Laboratory Fee:
   Each course with laboratory ......................................... 15.00
   Except: Biology 399, Lab Fee per hour of credit ................ 10.00
Chemistry Laboratory Fee: (Each course with laboratory) ........ 15.00
Chemistry Breakage Deposit—each course ............................ 7.50
Language Laboratory Fee ............................................... 5.00
Physics Laboratory Fee:
   Each course 379 or under, with laboratory .......................... 10.00
   Each course 380 or over, with lab, per credit hour ............. 5.00
Radio Speech Laboratory Fee—each course ........................... 5.00
Military Uniform Deposit (refundable) ............................... 20.00
Make-up Examination Fee ................................................ 5.00
Student Service Fee—each semester
   (where load exceeds 11 hours) ...................................... 15.00c
   Fee for each transcript of credit .................................... 1.00
Graduation Fee ............................................................ 20.00
For Physical Education Students:
   Athletic Equipment Fee for Men—each semester ................... 7.50
   Athletic Equipment Fee for Women—each semester ................. 5.00
   Youth Activities Accident Policy—each semester ................. 3.75d*
   *Subject to change.
For Business Education Students:
   Office Machines Fee .................................................. 7.50
   Typewriter Fee ........................................................ 7.50
   Secretarial Procedures Course Laboratory Fee ..................... 5.00
a) A reduction of 50 cents per hour is granted if all charges are paid in full at time of registration.
b) The registration fee is not refundable and must be paid each semester by all students.
c) Payment of the Student Service Fee entitles the student to the student newspaper and yearbook, student health services, counseling services, the services of the office of Financial Aids and Placement, and selected University publications.
d) Payment of Youth Activities Accident Fee entitles Physical Education majors to required medical services due to accident while attending classes or while traveling directly to and from these classes, within twenty-six weeks from the date of the accident up to $500.00 for each accident regardless of other coverages. This fee is not refundable and must be paid each semester by all Physical Education majors.
A student may audit a course only upon specific approval from the Dean of the College of Liberal Arts and Sciences. Where this permission is granted, charges will be assessed at regular tuition and fee rates and must be paid at time of registration.

Withdrawal

Students wishing to withdraw from a class prior to mid-term examinations must report to the Academic Office and fill out a withdrawal slip. Failure to notify the Academic Office (within the current term) of such withdrawal renders the student ineligible for refund.
Students wishing to withdraw from a class after the mid-term examinations must receive the approval of the professor, who indicates whether the student was passing or failing at the time of withdrawal.
A student may not withdraw from any class after the thirteenth week of the semester.

Refunds

Upon approval of the withdrawal request by the Dean of the College of Liberal Arts and Sciences, charges will be adjusted in accordance with the following schedule:

<table>
<thead>
<tr>
<th>Period of Attendance</th>
<th>Percent of Tuition to be charged</th>
</tr>
</thead>
<tbody>
<tr>
<td>from date of opening class in each term</td>
<td>20%</td>
</tr>
<tr>
<td>Two weeks</td>
<td>40%</td>
</tr>
<tr>
<td>Three weeks</td>
<td>60%</td>
</tr>
<tr>
<td>Four weeks</td>
<td>80%</td>
</tr>
<tr>
<td>Over five weeks</td>
<td>100%</td>
</tr>
</tbody>
</table>

All withdrawals will be dated as of the end of the week in which the last class was attended. No tuition charge will be assessed for attendance during the first week of the term.

Exception: If a student must withdraw for failure to meet scholastic requirements during a previous term and the academic office has been unable to notify him of this failure prior to the beginning of the current term, no tuition or fees will be charged.
A grade of \( PX \) will be recorded for any courses from which a student withdraws without notifying the Administrative Assistant to the Dean.
Whenever a student is compelled to withdraw because of orders to report for active duty in the Armed Forces, he will report immediately to the Dean's Office. Information on special consideration, according to the University policy, may be obtained in the Dean's Office.
Tuition refunds will be made by the Business Office only upon receipt of an approved withdrawal slip and specific request for refunds by the student concerned. Refundable credits must be claimed within one calendar year of the beginning of the term in which the credit accrued. In no case will tuition be refunded for failure to complete an audited course, and except for students dropped for poor scholarship, fees other than tuition are not refundable.
STUDENT SERVICES

Financial Aid Program

De Paul University has planned its financial aid program to assist as many qualified students as possible to realize their ambition of a college education. To implement its goal, the University program includes four types of opportunities for financial assistance—scholarships, grants, loans, and part-time employment. Prospective students who need financial assistance are urged to visit the University's admissions office to discuss the opportunities open to them. Students already registered may inquire at the Office of Financial Aids and Placement. While some students may avail themselves of one type of assistance, others may find a combination of several plans more desirable.

Scholarship and Awards

Twenty-five to fifty scholarships, ranging from full tuition to honorary, are awarded on a competitive basis to incoming students planning to attend the College of Commerce or the College of Liberal Arts and Sciences. The scholarships are renewed if the recipient maintains a 3.4 quality point average.

One scholarship is awarded as a prize in the Chicago Drama Festival for Catholic high schools under the auspices of the Catholic Theater Conference.

Labor unions have established scholarships which may be used in the College of Liberal Arts and Sciences or the College of Commerce. These are: Milk Wagon Drivers Union, Local 753, two scholarships; and Amalgamated Association of Street, Electric Railways and Motor Coach Employees of America, Division 241, one scholarship. Applicant must be a high school graduate and the child of a member of the union offering the scholarship. Awards are made on the basis of ability, achievement and need.
The Chicago American Charities, Inc., offers several scholarships each year to De Paul University students who are veterans and are interested in a journalistic career.

A scholarship is awarded by De Paul University in association with the Chicago Catholic Science Exposition to a student submitting an outstanding project and ranking in the top 10% of his or her class.

The Chicago Community Trust frequently awards scholarships at De Paul. William J. Cook Fund scholarships are available to men students in any school on either campus, "of superior ability and high character, graduates of high school in Cook County, who have strong ambitions for higher education and who, because of family financial limitations, must largely make their own way." Full tuition is paid when necessary and in special cases some allowance for personal expense.

Two $1,000 scholarships are awarded annually to the sons and daughters of members of Local No. 1 of the Flat Janitors Union. The awards, which are renewable, may be used in the College of Liberal Arts and Sciences, School of Education, or the College of Commerce.

The Chicago Intercollegiate Council awards several partial ($200) scholarships to students attending any accredited college and university of the Chicago area. The applicant must be an American of Polish descent with a good scholastic record and need for financial assistance.

The Commonwealth Edison Company awards $900 each year to aid one or more worthy Negro students attending De Paul from the Chicago area in Illinois.

The Rebecca Kranz Crown Scholarship, in memory of Rebecca Kranz Crown (Mrs. Henry Crown), who died in 1943, awards income from an endowed scholarship each year to one or more deserving students.

The Sol R. Crown Scholarship worth $525 is awarded annually to assist a deserving undergraduate student to continue his or her education at De Paul.

The Diversey Corporation Senior Chemical Scholarship in the amount of $200 is awarded each year to a senior majoring in Chemistry.

The Jewel Tea Company, Inc., awards a number of scholarships to students attending De Paul University. These scholarships are awarded to incoming students on the basis of academic achievement and employment by Jewel on a part-time or temporary basis, provided such employment averages 15 hours per week during the senior high school year.

The Mayor's Chicago Youth Foundation makes available the sum of $500 to each of 47 public and parochial high schools in the city of Chicago each year, to be given to one male or female graduate toward a college education. Each school determines its method of selection, the foundation does not specify age limits, types of educational institution, or personal qualifications. The school also determines the rate of expenditure. Winners are selected each spring.

The National Merit Scholarship Corporation offers a large number of four-year scholarships to high school seniors to the college of their choice on the basis of national competitive examinations. The principal of the high school may select five percent of the senior class to take the preliminary aptitude test to qualify for the final examination. The amount of the scholarship is determined on the basis of confidential information concerning financial resources of the student and a full statement of the student's college plans.
The Newspaper Distributors Association of Chicago awards about
twenty-five Carrier Scholarships of $500 each to newspaper carriers who
take a competitive aptitude test. Points for length of time as carriers are
added to the scores, thus giving credit for seniority. Each carrier may attend
the college of his choice. Carriers must be graduates of accredited high
schools and must meet admission standards. Awards are for one year only.

A scholarship is awarded by De Paul University in association with the
New World, Archdiocesan weekly newspaper, to a student of ability who is
a leader in the annual subscription drive.

The Archbishop William D. O'Brien Scholarship for $500 for tuition and
fees is awarded annually in the College of Liberal Arts and Sciences.

The George M. Pullman Educational Foundation requires of applicants:
academic accomplishment, general promise, financial need, and self help.
While preference is given to certain relatives of employees and former
employees of the Pullman-Standard Car Manufacturing Company and of the
Pullman Company, applications are accepted generally from residents of
Cook County, Illinois, and especially from residents of the southern half of
Cook County. Applications are accepted from residents of areas other than
Cook County, Illinois, only if such candidates qualify for company employ-
ment preference. Candidates with questions concerning the matter of prefer-
ence should contact the Foundation directly. A Scholarship Qualifying Test
is required of high school seniors. Candidates should inquire about the
necessary procedures at the Foundation office or at the office of their high
school college advisor. Application deadline for high school seniors is
February 1st.

The Nathan Schwartz Award is made each year to the outstanding active
Praetorian who is a student in any of the colleges of De Paul University.
The award is made on the basis of academic attainment, service to the
Praetorians, service to De Paul University, and the student's need. The
amount and number of awards vary from year to year. Each award is cus-
tomarily the sum of $150. The award is made through the generosity of
Mr. Nathan Schwartz, an alumnus of De Paul University.

Sherman J. Sexton Memorial Scholarship. This is a scholarship of $500
to be awarded annually to one or more deserving male students who have
demonstrated need. The will of Mr. Sherman J. Sexton provided for the
endowment of this scholarship. Mr. Sexton was an alumnus of De Paul
and was a member of the De Paul University Board of Trustees from
1932 until his death in 1956.

The "State Scholarship Act" of 1957 established a program of state
scholarships for residents of Illinois. The scholarships are awarded on the
basis of ability, achievement and need. Ability and achievement are deter-
mined by consideration of the student's scholastic record in high school
and the results of a state-wide examination. The amount of financial as-
sistance, not to exceed $1000, is determined on the basis of need. The
scholarships may be used at the college or university of the student's
choice in Illinois. High school seniors who are in the upper half of their
class are eligible to apply for first-year scholarships at the appropriate time.
Detailed information may be received at the University's admissions office
or can be obtained at the student's high school. The scholarships are renew-
able if the conditions of residency and need under which the first year
scholarship was awarded still prevail and the student has completed suc-
cessfully the work of the preceding year.
The State of Illinois also has a program for full-time upperclass students which is primarily based on need with the only academic requirement being that the student not be on probation. The amount of funds available for this program is determined by the State Legislature and the quota De Paul University receives is based on its full-time student enrollment.

Two and four-year scholarships are available to selected ROTC students who are strongly motivated toward a career in the Army. Each scholarship pays for tuition, books, and laboratory expenses, and in addition, pays $50.00 per month for the duration of the award, except during the Advanced Course summer training camp at the end of the junior year when pay is at the rate of $120.60 per month. Only students who participate in the four-year Army ROTC program are eligible.

John Stine Memorial Scholarship. This is a partial scholarship in honor of Dr. Stine, founder and chairman of the Speech Department at De Paul University. It is awarded yearly to a speech major or minor who has demonstrated academic achievement, artistic promise, and interest in speech activities.

The Talman Federal Savings and Loan Association scholarship program provides for a number of awards to students of high schools within their geographical area. The awards are renewable and selection is made on the basis of academic standing, ability to qualify for other larger scholarships, acceptance by a private college or university, and financial need.

The Vanderbilt Better Tour Scholarship established by John F. and Ramona Hayes Healy is offered in the College of Commerce. The applicant must be able to type and must be interested in a career in travel and transportation.

Many other business and industrial firms offer programs of college scholarships to sons and daughters of employees who may choose De Paul University as an institution to which the scholarship may be applied.

In the College of Commerce, the Praetorians annually award a partial scholarship on the basis of academic attainment and need to a student who has completed his freshman year.

Delta Sigma Pi, international Commerce fraternity, awards a scholarship key annually to the graduating senior with highest scholastic average. The Delta Sigma Pi Achievement Award of $100 is made annually to a graduating senior in the College of Commerce on the basis of all round leadership during his undergraduate residence.

Gamma Delta Iota Fraternity offers a partial scholarship to a second-semester freshman in the College of Liberal Arts and Sciences, awarded on the basis of academic achievement and financial need.

The Evening Commerce Council annually awards a key for outstanding service to students in the Evening Division of the College of Commerce. The Evening Commerce Council of the College of Commerce offers five scholarships of $100 each to beginning students in the Evening Division of the College of Commerce who have graduated the previous June from a high school in the Chicago area. These scholarships are awarded on the basis of scholastic achievement and financial need, and are applicable in payment of tuition and fees in the Evening Division of the College of Commerce.

For excellence in accounting, the Haskins and Sells Foundation presents an annual award of $500 to an outstanding senior majoring in accountancy. The recipient of the award is selected by the faculty of the Department of Accountancy.
To encourage young men and women who are majoring in accountancy and to assist them in the continuance of their education in preparation for a career in the public accounting profession, George Dorr Wolf, Jr., has established annual grants in the amount of $100 each to be presented to two students selected from the first ten students of the junior class who are majoring in accountancy. The selection is made by a committee composed of the chairman of the Department of Accounting and Mr. George Dorr Wolf, Jr. In choosing the winners, attention is given to: (1) scholarship; (2) financial need; (3) interest in a career in public accounting.

To encourage undergraduate students of demonstrated ability to seriously consider careers in professional accountancy, Mr. Leonard P. Spacek, partner in the firm of Arthur Andersen & Co., has provided an award of $200. This award is presented to a young man or woman of the junior class who is majoring in accountancy. The recipient of the award is selected by the faculty of the Department of Accountancy, and attention is given to scholarship, character and leadership qualities.

To encourage interest in a career leading to controllership, the Chicago Control of The Controller Institute of America annually makes an award to a student in Accounting or Business Administration who has demonstrated outstanding scholarship and leadership abilities.

A number of scholarships are available to students in the College of Law. Inquiries should be directed to the Chairman of the Law School Scholarship Committee.

The School of Music awards partial scholarships in piano, organ, violin, and voice, and a number of orchestra grants to students of unusual talent.

The Mu Phi Epsilon National Sorority provides annually an award of $100 to a student in the field of applied music. The Beta Pi Mu Fraternity awards a scholarship for one semester in applied music study upon recommendation of the administration.

The Polish Arts Club of Chicago offers three $100 competitive awards to students in music. The purpose of the contest is to discover and assist a talented young American of Polish descent to further his or her career in music. The applicants are rated on talent, dramatic ability, appearance, potential capacity and promise of future development.

Nursing Student Scholarship

Illinois Department of Mental Health Scholarship Program: These scholarships pay full tuition and fees, allowances for books, and a monthly stipend. Students commit themselves to staff nursing in Illinois State Psychiatric Hospitals for one year period for each school year of scholarship aid. Apply to Director of Nurses, Illinois Department of Mental Health, Springfield, Illinois.

Chicago Council on Community Nursing Scholarship Program: These scholarships are available to nursing students only during assignment to clinical laboratory courses.

Other departments of the Graduate School periodically offer assistantships, the terms of which are arranged in individual cases.

The Departments of Chemistry and Physics, in conjunction with industries in the Chicago area, offer a certain number of fellowships having stipends of various amounts.
Applicants for assistantships and fellowships should address their inquiries to the appropriate departments.

Other scholarships are awarded on the basis of need and ability to students who would otherwise not be able to acquire a college education.

Students should apply for scholarships by March 15 previous to the school year in which they plan to attend college.

**Educational Opportunity Grants**

Educational opportunity grants (not to be repaid) will be available to college students who can prove exceptional financial need. First year grants will range from $200 to $800 and will be subsidized by the federal government. An equal "matching" fund of additional financial aid will be provided by the University. However, the guidelines to determine which types of other financial aid will be used have yet to be determined by the U. S. Office of Education as of this writing.

Rules on the amount of contribution by parents toward payment of the student's expenses (in some cases none will be required) plus other rules regarding student eligibility remain to be determined. In addition to the basic grants, students may also receive a $200 bonus if they achieve an academic ranking in the upper half of their class after the first year of eligibility.

Prospective students may obtain further information from the Financial Aid Counselor in the Admissions Office in Room 625 of the Frank J. Lewis Center, 25 E. Jackson Blvd. Students currently enrolled may contact the Office of Financial Aids and Placement in Room 1730 at the same address.

**Student Loans**

Currently loans are available through the National Defense Education Act of 1958 as amended. However, at this writing it appears that the Illinois State Guaranteed Loan Program will be substituted for much of the former program. It is anticipated that undergraduate students may borrow up to a maximum of $1000 per year and graduate or professional students may borrow up to $1500 per year. The total maximum an undergraduate student may borrow is $5000 and the total maximum allowable to a student completing both undergraduate and graduate or professional programs is $7500. It is anticipated that the rate of interest will be 3% beginning with the date on which the repayment of the loan is to begin which is 9 months after the student discontinues the qualifying course of study. Payment on the principal of the loan would not have to be made while the borrower is a member of the armed forces or Peace Corps. However, interest would accrue and have to be paid for that period.

Forgiveness clauses for part or all of the loan for those students who enter into the teaching profession are currently included in the National Defense Loan Program but are not yet incorporated in the Illinois State Guaranteed Loan Program. Final action as to how this feature will be made available, if at all, to students remains to be determined.

**Nurses Student Loan Program**

A separate loan program has been established for full-time students formally accepted or enrolled in the Nursing Program under the provision of the Nurse Training Act of 1964 as amended. Students not meeting the foregoing provision are eligible for consideration under other loan programs at the University.

To be eligible for a loan, a Nursing Student Loan Program applicant must (a) be in need of the amount of the loan to pursue a course of study at DePaul University; (b) be capable of maintaining good standing in such course; (c) have been accepted for enrollment or already registered as a regular full-time student seeking a baccalaureate degree or a graduate degree in Nursing; and (d) be a citizen of the United States or a permanent
resident as approved by the U.S. Department of Immigration.

For purposes of eligibility, a full-time student in the Nursing Program at DePaul University is one who is registered for at least 9 semester hours on the quarter system in the undergraduate program or for at least 6 semester hours on the quarter system in the graduate program. A student who is completing special requirements for a degree but is not enrolled for the foregoing numbers of hours may apply.

The normal maximum amount available to the individual borrower in an academic year or its equivalent is $1,000. A portion of the loan and interest may be cancelled in the event that the borrower is employed full time as a professional nurse in a public or nonprofit private institution or agency (including teaching in any of the fields of nurse training or service as an administrator, supervisor, or consultant in any of the fields of nursing). The cancellation for employment shall be at the rate of 10 percent of the amount of the loan which was unpaid on the first day of such service for each complete year of employment, up to a maximum of 50 percent of the total loan.

A borrower shall repay the loan over the ten year period which begins one year after the student ceases to pursue a full-time course of study in the Nursing Program. The rate of interest for the Nurses Student Loan Program is either 3% per annum or the "going Federal rate" at the time the loan is made, whichever is greater. The rate of interest determined in this manner for the first loan obtained by a student from a loan fund established in a school shall also apply to any subsequent loan to such student from such fund during his course of study. If a student's program of study is interrupted and the student later resumes the program on a full-time basis, repayments on the loan are deferred and no interest on the loan accrues during this period of study.

Students in the Nursing Program may receive information and apply for a loan by contacting the Chairman of the Nursing Department.

Part-Time Employment Opportunities

Work Study Program

This is a special program which provides jobs both on and off campus to all students, Undergraduate and Graduate or Professional, who can provide proof of need for such employment in order to continue their education.

Students need not necessarily come from economically deprived families to qualify as was the case before the original program was amended. However, students from high income families will not prove to be eligible. Because there are several factors to be considered in determining eligibility, it is best to apply rather than assume one might not qualify. This program is subsidized by the Federal Government, off-campus non-profit organizations and DePaul University. Prospective students may obtain further information from the Financial Aid Counselor in the Admissions Office in Room 626 of the Frank J. Lewis Center, 25 E. Jackson Blvd. Students currently enrolled may contact the Office of Financial Aids and Placement in Room 1730 at the same address.

Other Part-time Employment

Other part-time positions, either on or off campus, are available through the services of the Office of Financial Aids and Placement. Incoming students are eligible to apply after they have registered and learned their class schedule. Currently enrolled students are eligible at any time. No proof of need is necessary to qualify for this service.
Placement Services

Part-time and summer jobs both on and off campus are available to full-time students through the services of the Office of Financial Aids and Placement at no charge other than the fee already paid for all student services. Full time positions are also available for students enrolled in the evening divisions.

The Office of Financial Aids and Placement sponsors on campus interviews for graduating seniors. More than 100 nationally known organizations recruit to fill management training program assignments and various types of career positions. Services of the office are also available at no fee to alumni seeking employment.

The Office of Financial Aids & Placement is located in Room 1730 of the Frank J. Lewis Center. De Paul University also operates a separate Teacher Placement service for students who are interested in teaching as a career. The placement of qualified personnel into teaching and administrative positions in Education is available to both graduating seniors and alumni.

Honor Societies

Students may aspire to several national honor societies of university-wide or college-wide scope; Beta Gamma Sigma, in the field of collegiate business study; Blue Key, an honor and activity fraternity; Delta Epsilon Sigma, a National Scholastic Honor Society in Liberal Arts and Sciences; Delta Mu Delta, a national Honor Scholarship Society for evening commerce students; Kappa Gamma Pi, an honor and activity society for women; Phi Eta Sigma, a national Scholastic honorary freshman fraternity; Pi Gamma Mu, National Social Science Honor Society. There are also many honor societies of department scope to which students may be elected.

Student Health

The student health service is for the protection of the health, both physical and mental, of the student body. Under the guidance of the University Medical Director, study and analysis are made of each health certificate sent in by the family physician. Where indicated, remedial and corrective treatments are supervised through consultation with the family physician. Students who do not have a family physician may consult with the University Medical Director. On the north side campus the health office is located at Alexian Brothers Hospital, 1200 Belden Avenue. The health office at the downtown center is located on the 16th floor, 25 East Jackson Boulevard, where a nurse is on full-time duty.

Special fees have been arranged with Alexian Brothers Hospital for laboratory work such as blood count and urinalysis. To take advantage of these fees students must obtain laboratory tickets from the Student Health Office.

Counseling

Advice and guidance to students who seek counsel is a feature of De Paul University's educational program. Such counsel applies as readily to the
high school student uncertain of his college plans as it does to the undergraduate pursuing his college career and the De Paul graduate seeking means of advancement.

Counselors in the De Paul Office of Admissions (Room 625, 25 East Jackson Boulevard) are available to those wishing information and advice about college. High school students particularly find the convenient location of the Office of Admissions and the helpfulness of its counselors a valued service in formulating their college plans.

At the time of registration, advisors help the students in developing their programs. Placement tests given during orientation week are followed by interviews with counselors.

Throughout their college careers, students find full-time counselors as well as faculty advisors readily available for consultation.

Occupational or career guidance counseling is available to students and alumni at all times in the Office of Financial Aids and Placement at 25 E. Jackson Boulevard. Those interested in careers in Education should contact the School of Education office.
ROTC

Reserve Officers Training Corps instruction at De Paul University is offered on a voluntary basis. A General Military Science program is under the supervision of Regular Army officers and noncommissioned officers.

As an integrated part of the academic curriculum of the University, Military Science is divided into two phases, the Basic Course and the Advanced Course.

The Basic Course covers the freshman and sophomore years. It consists of three hours of military instruction per week, for which the student receives two semester hours of credit for each year.

BASIC COURSE ENROLLMENT REQUIREMENTS

A student who elects to enroll in the Basic Course must be:

1. A male citizen of the United States. Non-citizens may be conditionally enrolled provided they present written evidence of intent to become a citizen.

2. Physically and morally qualified.

3. A full-time day student.

BASIC COURSE BENEFITS

Students enrolled in the Basic Course will receive the following benefits:

1. Complete uniform and textbooks issued at no expense to the student.

2. Leadership training valuable to the college graduate in either civilian or military life.

3. Deferment from the draft.

4. Four semester hours credit toward graduation.
Advanced Course

The advanced phase of instruction during the Junior and Senior years is offered to students who have demonstrated special aptitude in Military Science. The course consists of 210 hours of advanced military subjects for which the student receives eight semester hours credit toward graduation. A six week summer camp between the Junior and Senior years is a course requirement. Two related elective courses from the college curriculum, each earning at least three semester hours credit, must be taken during the advanced phase. Students who successfully complete the Advanced Course receive a commissioned appointment in the Army Reserve upon graduation. Outstanding students officially designated "Distinguished Military Graduate" are eligible for commission in the Regular Army.

The advanced program is also offered to students who have not taken the basic program. However, students who wish to take the advanced program without the basic program, will spend six weeks at a summer training camp before the Junior year.

ADVANCED ENROLLMENT REQUIREMENTS

Students selected for enrollment in the Advanced Course must:

1. Meet all requirements for the Basic Course.
2. Be of such age as to permit completion of the course prior to reaching 28 years of age.
3. Agree through signed contract to complete the advanced course and to accept a commission when tendered.

ADVANCED COURSE BENEFITS

Advanced Course students receive the following benefits:

1. Qualification for a commissioned appointment in the Army Reserve.
2. Opportunity to qualify for a professional career as a Regular Army officer.
3. A monthly monetary allowance of $40 while enrolled in the Advanced Course.
4. Summer camp pay plus reimbursement for travel to and from camp.
5. Uniforms and textbooks at no expense to the student.
6. Eight semester hours credit toward graduation.
7. Deferment from the draft.
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Franklin N. Schneider, Associate Director, Development
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Jeanne Barry, Director, Publications
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Robert F. Fries, Director
Jeanette I. Rekosiewicz, Executive Director
Room 1508, 25 East Jackson Blvd.
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Paul A. Benson, Room 1617, 25 East Jackson Blvd.
FULBRIGHT ADVISOR
Kenneth P. Saurman, Room 1617, 25 East Jackson Blvd.
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Rev. Patrick J. Mullins, C.M., Lincoln Park Librarian
Virginia Boyd Gault, Downtown Librarian
Robert Q. Kelly, Law Librarian
MEDICAL DIRECTOR
Alexian Brothers Hospital, 1200 West Belden Avenue and Room 1630, 25 East Jackson Blvd.
OFFICE OF FINANCIAL AIDS AND PLACEMENT
Kenneth C. Conway, Director, Room 1732, 25 East Jackson Blvd.
STUDENT ACTIVITIES
Rev. Austin F. Minogue, C.M., Director, Room 1735, 25 East Jackson Blvd. and 1046 West Belden Avenue.
STUDENT PUBLICATIONS
Lawrence A. Ragan, Director, Room 1735, 25 East Jackson Blvd.
STUDENT RECORDS
Edward M. Stout, Registrar, Room 625, 25 East Jackson Blvd.
Fred Bedford, Assistant Registrar
TEACHER PLACEMENT BUREAU
Edward H. Stullken, Director, Room 3B, 2328 N. Kenmore
TESTING
Irma T. Halfner, Director, Room 1509, 25 East Jackson Blvd.
UNIVERSITY-GOVERNMENT RELATIONS
Edward M. Stout, Director
VETERANS BUREAU
Paul A. Benson, Room 1617, 25 East Jackson Blvd.
ADMINISTRATION

THE BOARD OF TRUSTEES has under its control the general management of the Corporation and is vested with the power "to make laws not inconsistent with the laws of the State, the United States, or the terms of the Charter, for the government and control of the Corporation, and of its several departments and of the proper management of the educational, fiscal, and other affairs of the Corporation." All recommendations for degrees or diplomas are subject to review by the Board of Trustees.

THE BOARD OF LAY TRUSTEES serves in an advisory capacity to the Board of Trustees and the President on matters of general welfare and improvements, development of short and long range plans, and acquisition on necessary funds.

THE WOMAN'S BOARD advises the President and other officers of the University on cultural and academic programs for women students, and assists the President in promoting the University's civic and social events.

THE UNIVERSITY COUNCIL, under the chairmanship of the Executive Vice President, acts in an advisory capacity to the President of the University on matters of policy and may make recommendations of its own.
THE PRESIDENT is the chief executive of the University. He is ex officio a member of each faculty and the head of each governing board. All departments of administration and instruction are under his direct supervision.

THE CHANCELLOR of the University is responsible for planning and implementing the University's long-range objectives and programs.

THE EXECUTIVE VICE-PRESIDENT is, next to the president, chief executive of the University, and is entitled to act for the President in his absence. As dean of faculties, he is directly responsible for all academic operations.

THE VICE-PRESIDENT IN CHARGE OF STUDENT SERVICES, supervises the administration of placement, health, admissions, records, athletics, activities, publications, scholarships and grants-in-aid, and organizations.

THE VICE-PRESIDENT IN CHARGE OF DEVELOPMENT AND PUBLIC RELATIONS, is responsible for the University's development, fund-raising, and public relations programs.

THE TREASURER, directly responsible to the President, is the chief financial officer of the Corporation, collecting all moneys and receiving all funds, paying all approved bills, and, under the direction of the President and with the approval of the Board of Trustees, exercising responsibility for all University investments.

THE VICE-PRESIDENT AND COMPTROLLER, is responsible to the President for the general administration of the business affairs of the University.

THE DEAN of the College is the administrator in all matters pertaining to the educational conduct of his College. Solicitations of privileges in scholastic matters as well as complaints should be made to him and matters of doubt should be referred to his judgment.
ORGANIZATION

According to the terms of its charter, the chief purposes for which the University is organized are "to provide, impart and furnish opportunities for all departments of higher education . . . which may comprise and embrace separate departments of literature, law, medicine, music, technology, the various branches of science, both abstract and applied, the cultivation of the fine arts, and all other branches of professional and technical education which may properly be included within the purposes and objectives of the University."

To fulfill as many of these purposes as the institution is at present capable of fulfilling, and to promote therein the best results in administration and instruction, the following departments have been organized:

THE GRADUATE SCHOOL, 25 East Jackson Boulevard, offering courses leading to the degrees of Master of Arts, Master of Business Administration, Master of Education, Master of Music, Master of Science, and Master of Science in Nursing.

THE COLLEGE OF LAW (Day and Evening Divisions), 25 East Jackson Boulevard, offering courses leading to the degrees Juris Doctor and Bachelor of Laws.

THE COLLEGE OF LIBERAL ARTS AND SCIENCE, 2322 North Kenmore Avenue, offering courses leading to the degrees Bachelor of Arts, Bachelor of Science, and preprofessional courses. Freshman and sophomore classes in the Liberal Arts subjects are offered in the Lewis Center, 25 East Jackson Blvd.

UNIVERSITY COLLEGE, 25 East Jackson Boulevard, offering courses leading to the degrees Bachelor of Arts, Bachelor of Science, Bachelor of Philosophy, Bachelor of Science in Special Education, Bachelor of Science in Nursing; preprofessional courses and community service courses. Classes meet in the late afternoon and evening and on Saturday morning.

THE COLLEGE OF COMMERCE (Day and Evening Divisions), 25 East Jackson Boulevard, offering courses leading to the degrees of Bachelor of Science in Commerce and pre-legal courses.

THE SCHOOL OF MUSIC, 25 East Jackson Boulevard, offering courses leading to the degree of Bachelor of Music and, in cooperation with the College of Liberal Arts and Sciences or University College, the degree of Bachelor of Arts in Music.

THE SCHOOL OF EDUCATION, 25 East Jackson Blvd., offering courses leading to degrees of Bachelor of Science in Elementary Education, Bachelor of Science in Physical Education, Bachelor of Science in Music Education, Bachelor of Science in Business Education, Bachelor of Science in Special Education, and the Bachelor of Arts degree for Secondary Teachers.
BUILDINGS AND FACILITIES

The Lincoln Park Campus

The uptown campus of De Paul University is located in a residential neighborhood on the near-North Side of Chicago, approximately four miles from the Loop in the vicinity of Sheffield and Webster Avenues. Here are found the Liberal Arts Building; the Halls of Science; the new Alumni Hall; the Library Building; the old Auditorium; the Faculty Hall for priests; a building for faculty, student activities, and publications offices; a lay faculty house; and the University Church of St. Vincent de Paul.

The Liberal Arts Building, erected in 1923, is located at 2322 N. Kenmore Avenue, a half-block south of Fullerton Avenue. The four-story, reinforced concrete building with an additional ground floor accommodates classrooms and language laboratory on the three upper floors, administrative offices on the first floor, and speech room, psychology laboratory, and lounges on the ground floor.

Hall of Science (East), just south of the Arts Building at Belden and Kenmore Avenues, is a three-story reinforced concrete structure faced with Bedford stone. It was erected in 1938. The Department of Biological Sciences and the Department of Chemistry occupy this building.

Science Hall West, 1215 West Fullerton Avenue is occupied by the Department of Physics and the Department of Psychology.

The Library Building, 2235 N. Sheffield Avenue, houses the uptown arts library, including the Irish collection, periodical, and rare book rooms.

Alumni Hall, 1011 W. Belden Avenue, was erected in 1955-56. With a seating capacity of 5,240, this newest addition to the De Paul campus provides a University-owned site for varsity athletics, graduation exercises, assemblies, lectures, concerts, social functions, and other extra-curricular activities. A tri-level structure, Alumni Hall, with swimming pool, gymnasium, classrooms, exercise rooms, and other facilities, houses the Department of Physical Education and accommodates the University's physical education program for all students.

The Tower, 2328 N. Kenmore, is the temporary housing for the offices of the University Counseling staff and the offices of the School of Education.

The Frank J. Lewis Downtown Center

The Frank J. Lewis Downtown Center is conveniently located on the southwest corner of Jackson and Wabash Avenues. It contains the University's general administrative offices, classrooms, libraries, the administrative offices of the Graduate School, University College, College of Commerce, College of Law, School of Music, Home Study Department, and the
The University Libraries

The combined library facilities of De Paul University include 216,024 volumes and 1500 periodical subscriptions. The Robert R. McCormick Memorial Library is located in air-conditioned quarters on the second and third floors of the Frank J. Lewis Center, 25 E. Jackson Boulevard. While it is available to all University students and faculty, it is designed to serve particularly the students of the College of Commerce, the Graduate School, the School of Music, the University College, and Lewis division of the College of Liberal Arts and Science.

The laboratory of the professors and students of law is the Law Library on the seventh floor of the Frank J. Lewis Center. The rare volumes of The Farthing Collection of Illinois Session Laws and Statutes and the antiquarian treasury of Saint Thomas More's Works are among the valuable research tools of the Law Library. Moreover, it provides access to hundreds of current judicial reports, statutes and professional journals.

Faculty and students of the College of Liberal Arts and Sciences are served by the Campus Library at 2235 North Sheffield Avenue and a departmentalized science library in the Hall of Science at 1036 Belden Avenue.

Among outstanding holdings of the libraries is the Napoleon collection, of special interest to students of history.

The libraries also maintain a collection of micro-cards and micro-film with reading equipment for their use.

The University libraries are open to the public for research upon proper identification.

Supplementing the University collections for graduate work and faculty research are such easily available scholarly and special libraries as Newberry, John Crerar, Chicago Historical Society, International Relations, Municipal Reference, Art Institute and many others.
CALENDAR
of the College of Liberal Arts and Sciences

SUMMER SESSIONS, 1966

<table>
<thead>
<tr>
<th>Date</th>
<th>Event</th>
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</thead>
<tbody>
<tr>
<td>June 13</td>
<td>Monday. Evening sessions begin.</td>
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<tr>
<td>June 27</td>
<td>Monday. First day sessions begin.</td>
</tr>
<tr>
<td>August 5</td>
<td>Friday. Classes end.</td>
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</tbody>
</table>

SECOND SUMMER SESSION, 1966

<table>
<thead>
<tr>
<th>Date</th>
<th>Event</th>
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<tbody>
<tr>
<td>August 8</td>
<td>Monday. Classes begin.</td>
</tr>
<tr>
<td>September 2</td>
<td>Friday. Classes end.</td>
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</table>

FIRST SEMESTER, 1966-67

<table>
<thead>
<tr>
<th>Date</th>
<th>Event</th>
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<tbody>
<tr>
<td>September 7</td>
<td>Wednesday. Mathematics Proficiency Test and Counseling Inventories.</td>
</tr>
</tbody>
</table>

Registration
Students who preregistered and mail registered have completed the registration procedure.
Students who preregistered, but failed to mail register, may finalize registration at their convenience, September 12-15.
Students who did not preregister must register on the dates indicated below.

<table>
<thead>
<tr>
<th>Date</th>
<th>Event</th>
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<tbody>
<tr>
<td>September 12</td>
<td>Monday. Preparation of freshmen for registration. Registration for seniors and juniors who have not preregistered.</td>
</tr>
<tr>
<td>September 13</td>
<td>Tuesday. Registration for all new students.</td>
</tr>
<tr>
<td>September 14</td>
<td>Wednesday. Orientation for all new students. Registration for sophomores and second semester freshmen who have not preregistered.</td>
</tr>
<tr>
<td>September 15</td>
<td>Thursday. Orientation for all new students.</td>
</tr>
<tr>
<td>September 16</td>
<td>Friday. Orientation for all new students.</td>
</tr>
<tr>
<td>September 19</td>
<td>Monday. Classes begin.</td>
</tr>
<tr>
<td>November 1</td>
<td>Tuesday. All Saints' Day. Holiday.</td>
</tr>
</tbody>
</table>
NOV. 7 THRU 11  Monday thru Friday. Mid-semester examinations.

NOV. 24, 25  Thursday, Friday. Thanksgiving holidays.

NOVEMBER 28  Monday. Classes resume.

DECEMBER 8  Thursday. Immaculate Conception. Holiday

DECEMBER 16  Friday, after last class. Christmas vacation begins.

JANUARY 3  Tuesday. Classes resume.

JAN. 23 THRU 27  Monday thru Friday. First semester examinations.

JANUARY 27  Friday, after last class. First semester ends.

SECOND SEMESTER, 1966-67

Registration
Students who preregistered and mail registered have completed the registration procedure.
Students who preregistered, but failed to mail register, may finalize registration at their convenience, January 30 through February 2.
Students who did not preregister must register on the dates indicated below.

JANUARY 30  Monday. Preparation of freshmen for registration. Registration for seniors and juniors who have not preregistered.

JANUARY 31  Tuesday. Registration for all new students.

FEBRUARY 1  Wednesday. Registration for sophomores and second semester freshmen who have not preregistered.

FEBRUARY 2  Thursday. Testing and orientation program for all new students.

FEBRUARY 6  Monday. Classes begin.

FEBRUARY 12  Sunday. Midyear convocation.

MARCH 20, 21, 22  Monday, Tuesday, Wednesday. Annual Retreat.

MARCH 22  Wednesday, after close of retreat. Easter vacation begins.

MARCH 28  Tuesday. Classes resume.

APRIL 10 THRU 14  Monday thru Friday. Mid-term examinations.


MAY 30  Tuesday. Memorial Day. Holiday.

MAY 26, 29, 31  Friday, Monday, Wednesday, Thursday, Friday. Second semester examinations.

JUNE 1, 2  Friday, after last class. Second semester ends.

JUNE 4  Sunday. Baccalaureate.

JUNE 7  Wednesday. Convocation.

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## SUMMER SESSIONS, 1967

**EVENING AND FIRST DAY SESSIONS**

- **JUNE 12**: Monday. Evening sessions begin.
- **JUNE 26**: Monday. First day sessions begin.
- **JULY 4**: Tuesday. Independence Day. Holiday.
- **AUGUST 4**: Friday. Classes end.

## SECOND SUMMER SESSION, 1967

- **AUGUST 7**: Monday. Classes begin.
- **AUGUST 15**: Tuesday. Assumption Day. Holiday.
- **SEPTEMBER 1**: Friday. Classes end.

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### School Year Calendar 1966-67

<table>
<thead>
<tr>
<th>JUNE</th>
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### SEPTEMBER

<table>
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</table>
When DePaul University celebrates its 75th anniversary in 1973, the Lincoln Park campus will look like this. Existing buildings are (2), the Liberal Arts building; (3), Hall of Science; and (4), Alumni Hall. To these will be added (1) the $4.5 million Academic Center, now under construction; (5), the Student Union, with large roof plaza and inner garden; (6), the auditorium, and (7) men's and (8) women's dormitories. At the right, (9), is the Oscar Mayer public elementary school.
Accreditation

De Paul University is canonically erected by the Sacred Congregation of Seminaries and Universities, Rome; the School of Music is affiliated with the Pontifical Institute of Sacred Music, Rome. The University is accredited by the North Central Association of Colleges and Secondary Schools, the National Association of Schools of Music, the National League for Nursing, and the Association of American Law Schools; it is on the approved list of the American Bar Association and is approved by the State Approval Agency for Veterans Training; it is a member of the National Catholic Educational Association, the National Council for Accreditation of Teacher Education, the Association of American Colleges, the Association of Urban Universities, the American Association of University Evening Colleges, the American Association of Colleges for Teacher Education, and the American Association of Collegiate Schools of Business.
DE PAUL UNIVERSITY BULLETINS

Bulletins are available for the following divisions of DePaul University:

- The Graduate School
- The College of Liberal Arts and Sciences
- The College of Commerce
- The College of Law
- The School of Music
- The University College
  (Late Afternoon, Evening, and Saturday Classes)
- The School of Education
- The Home Study Department

Request for bulletins from the Graduate School, College of Law, and Home Study Department, 25 East Jackson Boulevard, Chicago, Illinois 60604 should be addressed specifically to them. All other requests for bulletins and inquiries concerning DePaul University should be directed to:

The Director of Admissions

DE PAUL UNIVERSITY
25 East Jackson Boulevard/Chicago, Illinois 60604
WEBster 9-3525