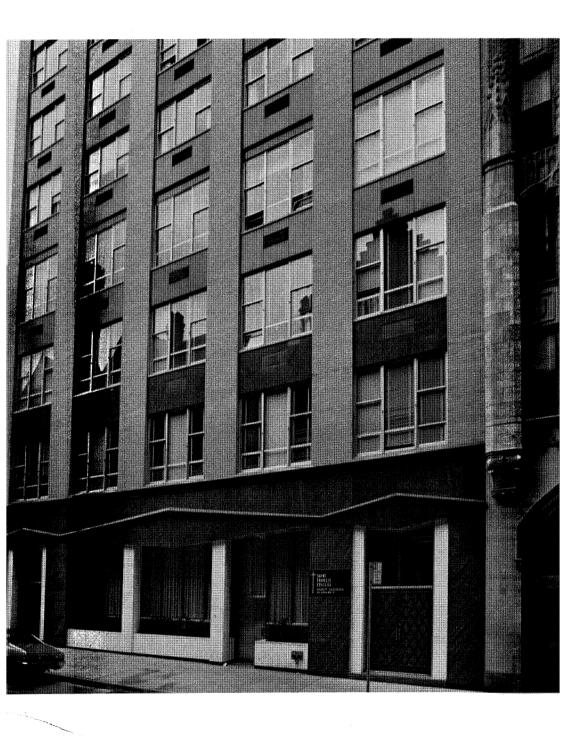
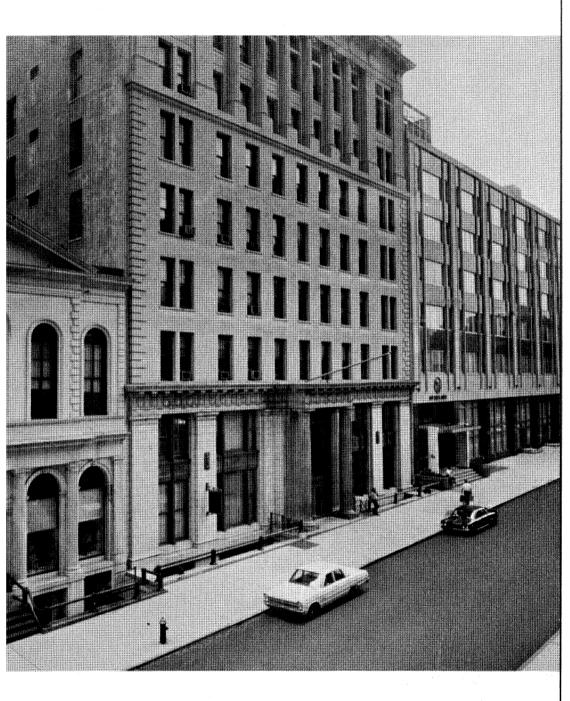
# ST. FRANCIS COLLEGE CATALOGUE

1972 1973





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# **Academic Calendar**

### **FALL 1972**

Sept.	14	Thursday Day Student	Late registration and program changes s 2:00-4:30 P.M.
Sept. Sept. Sept. Oct.	20 21 26 5	Wednesday Thursday Tuesday Thursday	Continuing Education Students 6:00-8:00 P.M. Classes begin Last day for free program changes Last day for adding courses Last day for Juniors and Seniors to file "Pass-Fail
Oct.	6	Friday	Course Requests".  Last day for students to file "Application for Degree Cards"
Oct. Nov. Nov. Nov. Nov.	9 7 13 22 27	Monday Tuesday Monday Wednesday Monday	Columbus Day (No Classes) Election Day (No Classes) Mid-term grades due Thanksgiving recess begins after last class Classes resume
Dec. Jan.	23 3	Saturday	Christmas Recess begins after last class Classes resume
Jan.	9	Tuesday	Last Day of Classes
Jan.	10-13	WedSat.	Final Examinations
Jan.	15	Monday	Final grades due by noon in Registrar's Office
			SPRING 1973
Jan. Jan.	19 24	Friday Wednesday	Last day for mail registration Late registration and program changes Day Students 2:00-4:30 P.M. Continuing Education students 6:00-8:00 P.M.
			Late registration and program changes
Jan.	24 29 30	Wednesday  Monday Tuesday	Late registration and program changes Day Students 2:00-4:30 P.M. Continuing Education students 6:00-8:00 P.M. Classes begin _ Last day for free program changes
Jan. Jan. Jan. Feb.	24 29 30 2	Wednesday Monday Tuesday Friday	Late registration and program changes Day Students 2:00-4:30 P.M. Continuing Education students 6:00-8:00 P.M. Classes begin _ Last day for free program changes Last day for adding courses
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Jan. Jan. Jan. Feb. Feb.	29 30 2 9	Monday Tuesday Friday Friday	Late registration and program changes Day Students 2:00-4:30 P.M. Continuing Education students 6:00-8:00 P.M. Classes begin _ Last day for free program changes Last day for adding courses Last day for Juniors and Seniors to file "Pass-Fail Course Requests" Presidents' weekend begins after last class (Combination Lincoln's Birthday & Washington's Birthday)
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Jan. Jan. Feb. Feb. Feb. Mar. Apr. Apr.	29 30 2 9 15 20 19 14 30	Monday Tuesday Friday Friday Thursday Tuesday Monday Saturday Monday	Late registration and program changes Day Students 2:00-4:30 P.M. Continuing Education students 6:00-8:00 P.M. Classes begin _ Last day for free program changes Last day for adding courses Last day for Juniors and Seniors to file "Pass-Fail Course Requests" Presidents' weekend begins after last class (Combination Lincoln's Birthday & Washington's Birthday) Classes resume Mid-term grades due Easter recess begins after last class Classes resume
Jan. Jan. Feb. Feb. Feb. Mar. Apr. Apr. May	29 30 2 9 15 20 19 14 30 19	Monday Tuesday Friday Friday Thursday Tuesday Monday Saturday Monday Saturday	Late registration and program changes Day Students 2:00-4:30 P.M. Continuing Education students 6:00-8:00 P.M. Classes begin _ Last day for free program changes Last day for adding courses Last day for Juniors and Seniors to file "Pass-Fail Course Requests" Presidents' weekend begins after last class (Combination Lincoln's Birthday & Washington's Birthday) Classes resume Mid-term grades due Easter recess begins after last class Classes resume Last day of classes
Jan. Jan. Jan. Feb. Feb. Feb. Apr. Apr. Apr. May May	24 29 30 2 9 15 20 19 14 30 19 21-26	Monday Tuesday Friday Friday Thursday  Tuesday Monday Saturday Monday Saturday Mon-Sat.	Late registration and program changes Day Students 2:00-4:30 P.M. Continuing Education students 6:00-8:00 P.M. Classes begin _ Last day for free program changes Last day for adding courses Last day for Juniors and Seniors to file "Pass-Fail Course Requests" Presidents' weekend begins after last class (Combination Lincoln's Birthday & Washington's Birthday) Classes resume Mid-term grades due Easter recess begins after last class Classes resume Last day of classes Final Examinations
Jan. Jan. Feb. Feb. Feb. Mar. Apr. Apr. May	29 30 2 9 15 20 19 14 30 19	Monday Tuesday Friday Friday Thursday Tuesday Monday Saturday Monday Saturday	Late registration and program changes Day Students 2:00-4:30 P.M. Continuing Education students 6:00-8:00 P.M. Classes begin _ Last day for free program changes Last day for adding courses Last day for Juniors and Seniors to file "Pass-Fail Course Requests" Presidents' weekend begins after last class (Combination Lincoln's Birthday & Washington's Birthday) Classes resume Mid-term grades due Easter recess begins after last class Classes resume Last day of classes

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HERMAN R. WEISS, Supervisor of V.A., Companionship Program, B.A., Long Island University; M.A., Columbia University; Ph.D., New York University Diplomate in Clinical Psychology, 1948

STANLEY S. WILLING, Professor of Business Management B.A., M.A., Ed.D., New York University; Ph.D., Philathea College

WILLIAM YELLIN, Assistant Professor of Accounting B.A., Brooklyn College; M.B.A., New York University; C.P.A., (New York)

\*PAX ET BONUM MEDAL: 15 years or more on faculty.

# **Committees of The Faculty**

Academic Standards Committee: formulates and recommends policy concerning academic standing, grading, attendance, honors programs, requirements for graduation, and separation from the College for academic reasons; and acts as a board of review in all cases concerned with academic standing.

PROFESSOR RICHARD WALL, Chairman.

Admissions Committee: recommends policies and standards for admission; and passes upon the records of applicants referred to it. PROFESSOR RICHARD F. DOYLE, Chairman

Athletic Policy Committee: formulates and recommends policies for the control of intercollegiate and intramural athletics in accordance with the aims and objectives of the College; advises the President on the appointment of coaches and moderators of intercollegiate sports; and approves schedules, athletic awards, and other matters pertaining to athletics.

DEAN JOHN CLIFFORD, Chairman.

Curriculum Committee: makes a continuing study of the nature and extent of the courses offered; makes such revisions in the curriculum as are consistent with the aims and objectives of the College, and recommends the establishment of new curriculums. BROTHER DePORRES RASPITHA, O.S.F., Chairman.

Faculty Interests Committee: recommends policies for improving faculty and professional staff members. They shall include policies for orientation, salaries, appointments, promotions, rank, tenure, professional growth, and leaves of absences.

PROFESSOR IOSEPH FORD, Chairman.

Library Committee: formulates policies and procedures relating to the library; seeks means of enriching the library's holdings in books, periodicals, and audio-visual aids; and promotes extensive use of the library for study and research on the part of both students and faculty.

Nominating Committee: formulates and recommends procedures for the nomination and election to elective positions on other standing committees; to propose candidates and to conduct elections. PROFESSOR CHARLES SAVAGE, Chairman.

- **Pension Committee:** reviews the administration of the pension plan. PROFESSOR CHARLES SAVAGE, Chairman.
- Professional Standards Committee: formulates and recommends a statement of professional standards, conducts hearings for faculty and professional staff members seeking redress of grievances and recommends appropriate action; and investigates charges against members of the faculty and professional staff and recommends appropriate action.

PROFESSOR CHARLES SCHWARTZ, Acting Chairman.

- **Promotion and Tenure:** formulates and recommends policies and procedures, evaluates and recommends faculty members for promotion and tenure.
- **Research Committee:** formulates and recommends policies concerning faculty research.

PROFESSOR CHARLES SCHWARTZ, Chairman.

Scholarships and Grants-in-Aid Committee: recommends policies concerning scholarships and grants-in-aid; passes upon all applications for scholarships and grants-in-aid; makes awards in accordance with established policies; and makes a semi-annual examination of the records of the holders of scholarships and grants-in-aid and recommends continuance or discontinuance of such aid.

BROTHER ALFRED BONANZA, O.S.F., Chairman.

Statutes Committee: makes a constant review of the statutes; and recommends changes in the Statutes which it deems advisable, submitting such recommended changes to the faculty assembly for approval before transmitting them to the President.

PROFESSOR ROBERT FOX, Chairman.

Student Activities Committee: supervises the policies determined by the Student Government; establishes policies for the regulation and improvement of the clubs and fraternities of the College; and gives final approval to the distribution of awards other than academic and athletic.

DEAN JOHN CLIFFORD, Chairman.

Advisory Committee on Student Behavior: recommends policies concerning the conduct of the student body; and acts as a board of review in disciplinary cases referred to it by the Dean of Student Affairs.

PROFESSOR EDNA O'HERN, Chairman.

# **Alumni Association**

The Alumni Association, founded in 1887, exists to advance the principles and purposes of St. Francis College and to benefit the present and former students.

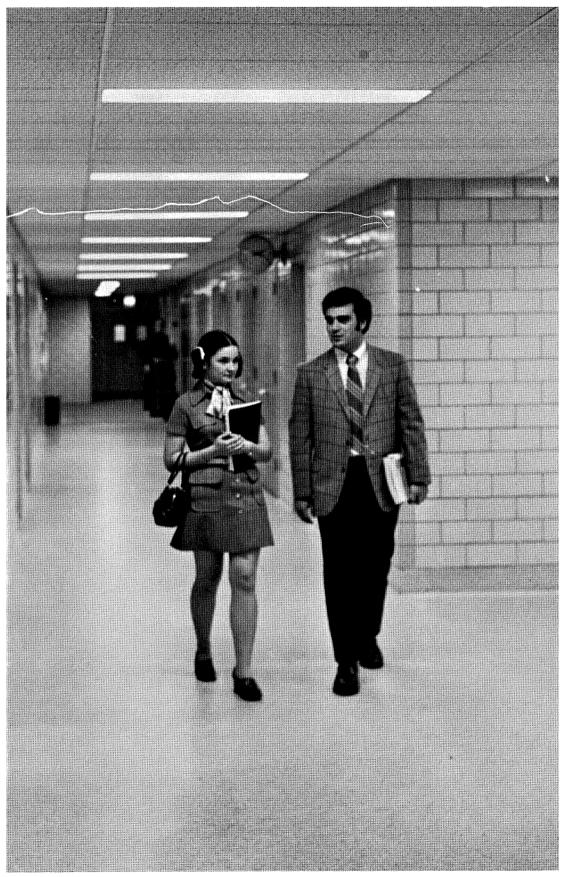
The Association conducts an Advisory Council to assist in career programs for students. In addition, the annual Alumni Fund renders financial aid to the scholarship and building programs of the College. It sponsors a number of social, educational, and religious affairs which serve to stimulate and maintain interest among its members and to renew old acquaintances of graduates and former students.

All former students of St. Francis College are members upon graduation of their class.

ST. FRANCIS COLLEGE ALUMNI ASSOCIATION

OFFICERS-1971/1972 PRESIDENT Carl J. Sardegna '59 VICE-PRESIDENT Michael K. Jewell '62 BOARD OF DIRECTORS - 1970 / 1972 Roy E. Antonelli '66 Rev. John G. Bals '55 Frank J. Barkocy '66 George C. Bergleitner, Jr. '59 Gerald A. Curtin '58 Joseph P. Frey '51 Edward T. Murphy '65 Thomas P. Orr, Jr. '38 Thomas E. Powers, Jr. '57 Charles L. Schaem '40 Daniel A. Walsh, Jr. '55

BOARD OF DIRECTORS - 1971/1973 Joseph A. Campanaro '68 James J. Castro '71 Martin G. Donohue '53 J. Kenneth Duggan '65 Robert A. Ficarra '65 George H. Mack '41 John J. Peters '65 Conrad W. Reitz, Jr. '65 John F. Roache, Jr. '56 Tiberius H. Schuldner '66 Richard D. Young '66



## **General Information**

### HISTORY AND GOVERNMENT OF THE COLLEGE

In the early part of 1858, the Right Reverend John Loughlin, first Bishop of Brooklyn, invited the Irish Congregation of the Franciscan Brothers to undertake the education of boys in his Diocese. On September 16, 1858, the Brothers purchased a building at 300 Baltic Street, and in the fall of 1859 opened the first classes of St. Francis Academy, in which the college had its origin. In 1868 additional property adjoining St. Francis Academy was purchased and a wing added to the original foundation containing additional class rooms, a chapel, and accommodations for boarding students. On June 2, 1868, the original foundation under the title of The St. Francis Monastery of the City of Brooklyn was incorporated.

On May 8, 1884, the Trustees of The St. Francis Monastery were empowered "to establish a literary college in the City of Brooklyn under the title of St. Francis College, and appoint as trustees of said college twelve persons of full age, citizens of the United States, and of the State of New York, whom it desires to manage and direct the said college, and their successors in office shall have power to make such by-laws as they shall deem proper for the management of said college, and to prescribe the course of study and discipline to be pursued and observed by the students attending the same, and under the title of the trustees of St. Francis College shall have the same power to confer diplomas, literary honors and degrees as is possessed by the universities and colleges of the State." The College thus became a function of The St. Francis Monastery.

The Bachelor of Arts degree in course was conferred for the first time in June, 1885. In 1891, the Board of Regents approved the Bachelor of Science curriculum, and the Bachelor of Science degree was conferred for the first time in June, 1892. The Bachelor of Business Administration degree was conferred for the first time in June, 1956.

In 1912, the College discontinued accepting boarding students to meet the needs of expansion. The living quarters of the students were remodeled to include additional science laboratories, a library, and lecture rooms. The need for more accommodating facilities and a modern building became urgent, and in 1923 the Brothers appealed to the people of Brooklyn to meet the demand. The College building formerly at 35 Butler Street (erected in 1926) was the result of this appeal. The College became a separate legal corporate entity under Charter issued by the Regents of the University of the State of New York on April 10,1957. In 1960, several buildings were purchased on Remsen Street in the new Brooklyn Civic Center. In the Fall of 1968, two additional buildings were opened. One building increased the

student union facilities, faculty offices, and faculty residence facilities. The other building houses the science facilities and additional classrooms. A new health and physical education building was opened in 1971.

Traditionally an all-male college, St. Francis became a coeducational institution in 1969.

### LOCATION

St. Francis College is within two blocks of the Borough Hall station of all subways and is easily accessible from all parts of the metropolitan area. The campus is located on Remsen and Joralemon Streets in Brooklyn Heights — a national historic landmark district.

### **GENERAL OBJECTIVES**

As a result of its history, location, and sponsorship, St. Francis College is concerned with the liberal education of students from the metropolitan area. The College regards as its primary function the systematic introduction of qualified students to the larger world of the mind. To provide a setting for such larger awareness the College offers pre-professional and pre-graduate training in the arts, the sciences, and business.

### **MEMBERSHIP AND AFFILIATIONS**

St. Francis College is chartered by the Legislature of the State of New York; is accredited by the Regents of the University of the State of New York and the Middle States Association of Colleges and Secondary Schools; is a member of the National Catholic Education Association, the Conference of the Catholic Colleges of New York State, the Association of the Colleges and Universities of the State of New York, the Association of American Colleges, the Council of Higher Educational Institutions in New York City, the Franciscan Educational Conference, the Commission on Christian Higher Education, the National Commission on Accrediting, and the American Association of Independent College and University Presidents.

### LIBRARY

Seventy thousand volumes comprise the working nucleus of the McGarry library. There are substantial increases each year through a large budget appropriation and the contributions of the Alumni and friends of the College. More than six hundred periodicals are received currently. Also accessible are stacks of bound and unbound periodicals and pamphlets together with various Government publications. The library is richly supplemented by the facilities of the libraries of the metropolitan area.

#### **LABORATORIES**

The new science building offers expanded opportunity for laboratory work in the physical sciences. In addition to the eleven physical science laboratories designed for the student's course work, there are numerous specialized laboratories that offer students and faculty the opportunity for research in areas both within and beyond those normally required for course work.

#### SPECIAL PROGRAMS

The Division of Continuing Education has been founded for the purpose of enabling every segment of the community to share in the Saint Francis experience. Open to men and women, this multifaceted division of the college provides opportunities for human growth and enrichment through a wide spectrum of courses and programs. Within this Division, students may complete courses leading ultimately to the baccalaureate degree or, if they so choose, to the two-year or associate degree. In addition, certificates of completion are offered in the areas of computer science, educational technology, and a host of preprofessional, in-service and vocational areas.

Special Studies Program — This program permits a mature person who already possesses business, professional or technological competence, supported by acceptable academic experience, to fulfill a requirement for the acquisition of a bachelor's degree.

To qualify for this program, the applicant must be at least 26 years of age and must have completed at least two years of college-level work that can be recognized as equivalent to some 60 credits but is not related to the course requirements in any one of the programs offered by the College, or who can demonstrate conclusively that his career and/or professional goals have substantially changed.

FEDERAL INTERN PROGRAM — In cooperation with the Board of Higher Education of the City of New York, St. Francis College is a participating institution in the selection and supervision of students interested in the public service as a potential career. Opportunities are given to juniors to apply for the internship, which is full-time during the summer and part-time during the academic year. Interns are granted credit toward their baccalaureate degrees and receive \$400 for the eight weeks of the summer program and a stipend, depending upon need, for their senior year. For complete information, juniors should contact the Director of Placement.

Accounting Internship programs are available to selected students. They are designed to provide guided practical experience in both industrial and public accounting.

Computer Program – St. Francis College has acquired the new IBM 1130 computer facility. Although primarily intended for mathematical and scientific uses, the IBM 1130 lends itself to many other

applications. Students who have had the courses in electronic date processing and students engaged in directed research in science, mathematics, or business will have hands-on operation of the facility to test their programs and to perform the mathematical, scientific, and business applications they desire.

Junior Year Abroad — At the end of the sophomore year, qualified students may elect to take advantage of a year of foreign study and apply this work toward the degree requirements of St. Francis College. No special course of study is provided by the College. The student may select a course and place of study from among the many programs available through the various international education agencies, such as the Institute of European Studies, The International Educational Exchange Service, The Inter-American Studies Program (sponsored by the United States Government) or programs conducted by other recognized educational institutions. Students entering this program should seek the advice of the Faculty Advisor for Foreign Studies and have the program approved by the Academic Dean.

The Institute of Religious Studies for Teachers of Religion awards a certificate in recognition of the successful completion of a minimum of twenty-one credits in Religious Studies. Students who are teaching religion or are interested in teaching religion are eligible to participate. It is believed that such a program will enable teachers to be aware of the constant development in the field of religious education particularly as it affects them in their own catechetical experiences. The implications of the documents of Vatican II are thoroughly explored. Insights into contemporary Theology are used to provide a base for catechetical relevance.

Veterans Administration Companionship Program — The St. Francis College Psychology Department, in affiliation with the Veterans Administration Hospital in Brooklyn, has developed this program for qualified seniors in psychology who are interested in supervised field experience in a clinical setting. Students involved in this program will receive college credit while working as therapeutic companions to selected patients in the V.A. Hospital. In addition, they will attend clinical staff conferences and lectures in psychology and psychiatry scheduled at this hospital.

LIFE EXPERIENCE CREDIT—This is an experimental program designed to assist the serious mature adult of 35 years or older who was unable to complete or start a college program upon completion of secondary school. Credit earned at post-secondary school institutions may be used in this program. Students will be directed to take the College Level Exam Program and New York State College Proficiency exams when applicable. Credit may also be granted for life and work experience upon the judgment of the Life Experience Program Committee. A minimum of 30 credits must be completed on campus in this program. Information and applications may be obtained from the Academic Dean.

# **Admissions of Students**

#### **ADMISSION TO THE FRESHMAN CLASS**

It is the policy of St. Francis College to admit as matriculated students only those applicants who present evidence that they can successfully pursue courses leading to a degree. No qualified applicant will be refused admission because of race, creed, or color.

A student who desires admission to the freshman class should apply to the Director of Admissions for an official application blank. and return it, completed, to the Director. The applicant should request the secondary school principal or representative to forward a record of high school grades to the Director of Admissions on an approved transcript form. Application for admission should be made as soon as possible in the senior year of high school or at the end of junior year on the Early Acceptance plan.

For admission, an applicant must: 1) be a graduate of an approved secondary school; 2) present evidence of satisfactory standing in the high school class and successful completion of required courses: 3) furnish a recommendation from the secondary school principal, or representative, as to character, personality and promise: 4) report for an interview with the Director of Admissions, or his representative. when required; 5) furnish a certificate of good health from the family doctor; 6) present sixteen acceptable units as follows:

English, four years

The remaining twelve units are to include a three-year sequence and a two-year sequence and are to be made up of the following academic programs of study: Foreign Language, Mathematics. Science, Social Studies, and Business. Applicants for the Bachelor of Science program must have completed Eleventh Year Mathematics or its equivalent.

16 units

### **ENTRANCE EXAMINATIONS**

Applicants for the day session are required to take the Scholastic Aptitute Test (morning section) of the College Entrance Examination Board and have the results sent to St. Francis College. A Bulletin of Information containing procedures for filing applications, a list of examination centers, and test dates may be obtained by writing to: College Entrance Examination Board, P.O. Box 592, Princeton, New Jersey 08540. Applicants for the evening session who because of employment or other circumstances have not taken the Scholastic Aptitude Test may be required to take a special entrance examination at the College.

The College is more interested in the applicant's potential to

succeed in college than in any prescribed pattern of entrance units. Where the preparation differs from the stated requirements, the record will be studied carefully by the Committee on Admissions for evidence of unusual aptitude, expecially in those studies which are prerequisite for the curriculum the applicant wishes to pursue.

### ADMISSION WITH ADVANCED STANDING

A student who has attended another college or university must present an official transcript of credits showing courses and grades, a marked catalogue of the institution or institutions attended, indicating the courses for which the applicant seeks credit, and a statement from an administrative officer that applicant has been honorably dismissed. The student must fill out the required application and have the secondary school record forwarded. Credit will be allowed only for courses appropriate to the curriculum chosen at St. Francis College.

The decision to admit to advanced standing and the determination of the amount and quality of transfer credit to be allowed rest with the Director of Admissions. Credit will not be allowed for any transfer course unless the grade received is considered equivalent to or higher than the St. Francis grade of C.

#### **ADVANCED PLACEMENT**

A student may qualify for advanced placement by presenting evidence of having completed a collegiate-level course in high school in the form of an acceptable score in the Advanced Placement Test of the College Entrance Examination Board. All communication regarding advanced placement should be addressed to the Director of Admissions. Information regarding the Advanced Placement Tests may be obtained from Educational Testing Service, Box 592, Princeton, New Jersey 08540.

#### **CREDIT BY EXAMINATION**

Advanced standing with credit is allowed upon evidence of successful completion, with a satisfactory grade, of the Advanced Placement Examination; the College Level Examination Program General Examination or Subject Examination of the College Entrance Examination Board, Princeton, N.J. Credit is also granted for a satisfactory grade in Proficiency Examinations conducted by the University of the State of New York, through the Division of Testing, Albany, N.Y.

Information may be obtained by writing to the respective agencies. Test results should be forwarded to the Admissions Office well in advance of the proposed term student wishes to begin classes and have credits evaluated.

#### **CLASSIFICATION OF STUDENTS**

A MATRICULATED OR REGULAR STUDENT is one who has fulfilled the matriculation requirements and is pursuing a degree program.

A Transfer Student is one who has withdrawn from a college or university and has been admitted to St. Francis College to pursue courses leading to a degree.

A Transient Student is one regularly enrolled in another college or university whose work at St. Francis College is to be transferred to the institution in which he is regularly enrolled.

A Special Student is a student of mature age who does not wish to complete a regular course of study. Such a student may be admitted with the consent of the Director of Admissions. The student must, however, submit credentials covering all preparatory work and, if admitted, may pursue only such studies as the student's qualifications permit.

Regular college students are classified on the basis of achievement as follows:

### LOWER DIVISION

Freshmen — those who have fewer than 28 credit hours.

Sophomores — those who have earned 28 credit hours.

### UPPER DIVISION:

Juniors — those who have earned 60 credit hours.

Seniors — those who have earned 90 credit hours.

The work in the lower division comprises the basic studies intended to lay the foundation for the more advanced work of the upper division. The work of the upper division involves the comprehensive grasp of a field of study which will contribute to the special interest of the student, together with a knowledge of other fields, thus giving purpose and unity to the whole college program.

#### DAY SESSION STUDENTS

Day Session Students are all students matriculating toward a Baccalaureate Degree in the Day Session.

### **CONTINUING EDUCATION STUDENTS**

Continuing Education Students are:

- 1. All students matriculating toward a Baccalaureate Degree in the Evening Session.
- 2. All students in Associate Degree programs.
- 3. All students admitted as Special or Non-matriculating students.

# FEES

The Trustees of St. Francis College exert every effort to keep the tuition costs as low as possible consistent with sound education policy. The Trustees reserve the right to make changes in tuition and fees when necessary. The following is a list of charges for the period from June 1, 1972 until September, 1973.

REGULAR FEES APPLICATION FEE	\$15.00
Pre-Registration Fee This fee is not refundable. It will, however, be credited towards tuition.	50.00
$M_{ ext{ATRICULATION}}$ Fee This fee is payable only once and is not refundable.	10.00
Tuition Per Credit Hour	60.00
Service Fee for Students Taking 12 or More Credits This fee includes registration, library and student services.	32.50
SERVICE FEE FOR STUDENTS TAKING FEWER THAN 12 CREDITS	10.00
REGISTRATION FEE FOR STUDENTS TAKING FEWER THAN 12 CREDITS	10.00
Service Fee Summer Session	10.00
STUDENT ACTIVITIES FEE FOR ALL DAY STUDENTS	17.50
Graduation Fee	25.00

DIPLOMA FEE (ASSOCIATE DEGREE)	15.00
LABORATORY FEE per lab. hr.	10.00
SPECIAL FEES LATE REGISTRATION FEE	10.00
Change of Program Fee	5.00
SPECIAL EXAMINATION FEE	5.00
$T_{RANSCRIPT} F_{EE}$ For all students and each time.	1.00
MAINTENANCE OF MATRICULATION FEE	10.00

### **PAYMENT PROCEDURE**

All charges for tuition and fees are payable at registration.

All payments must be by check or money order made payable to St. Francis College. Cash will not be accepted.

A deferred payment plan for the Fall and Spring Semesters is available to those students who request it. (Not available to freshmen, transfer and readmit students.)

The Plan is as follows:

- 1. A deposit of 50% of tuition plus all fees at registration.
- 2. The remaining amounts must be paid in equal installments:

Fall Payments Due
October 31
November 30

Spring Payments Due March 31 April 30

3. A student who fails to make payments on schedule will be penalized \$15.00 for each installment not paid on or before the due date. Moreover, students who do not adhere to the payment procedure may lose the privilege of the deferred payment plan.

A transcript of a student's record will not be issued by the Registrar's Office until a student's financial obligations to the College have been paid.

A student is liable for all charges for courses for which the student registers. If there is a change in the original registration during the first week of classes, such a change must be approved by the Registrar and reported to the Controller. The payment of additional tuition incurred by a student as a result of such a change in program is due on the day of change.

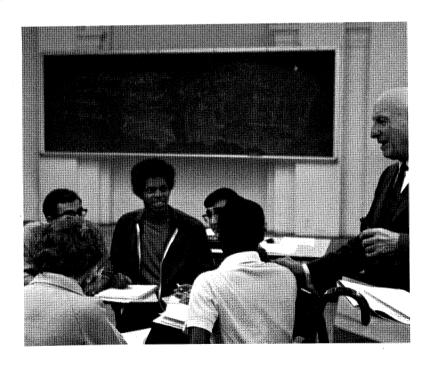
No student will be considered for a degree until all financial obligations to the College have been satisfied.

#### **REFUNDS**

When a student finds it necessary to withdraw from the College, the student will file notice with the Registrar and the Controller on an official form furnished by the Registrar. The amount to be refunded will be determined from the date the official withdrawal form has been completed and filed with the Registrar. A proportionate refund of tuition only is made according to the following schedule:

Withdrawal during the first 2 weeks of term	80%
Withdrawal during 3rd week of term	60%
Withdrawal during 4th week of term	40%
Withdrawal during 5th week of term	20%
Withdrawal after 5th week of term	no refund

In no case will a refund be made to a student who is dismissed or who withdraws while under disciplinary action. No refund will be granted for a particular course discontinued by a student after the first week of classes.



# **Financial Aid**

In the Franciscan tradition, St. Francis College is interested in granting financial assistance to students who, without such aid, would be unable to attend the College. Financial assistance consists of scholarships, grants, loans, and employment which may be offered to students singly or in various combinations. Incurring any disciplinary penalty may result in termination of financial aid. Withdrawal from the College automatically terminates the scholarship or other aid.

### COMPETITIVE SCHOLARSHIPS

Awards ranging in value to full tuition for four years are available to applicants on a competitive basis. Need is always a factor in determining the amount of an award. Scholarship holders must maintain a cumulative index of 2.0 at the end of the freshman year, 2.5 at the end of the Sophomore year and 3.0 at the end of the Junior year.

### **Q**UALIFICATIONS

- Exceptional academic achievement evidenced by previous school record.
- 2. Exceptional academic potential. This must be evidenced by scores on the Scholastic Aptitude Test of the College Entrance Examination Board, the English Composition Test, and two other achievement tests.
- 3. An unqualified recommendation by the high school principal or guidance counselor.

### CANDIDATES FOR SCHOLARSHIPS MUST:

1. File an application for admission to St. Francis College.

2. Take the necessary College Entrance Examination Board Tests and

have the scores sent to St. Francis College.

3. Complete the "Parents Confidential Statement" of the College Scholarship Service and have a copy forwarded by them to St. Francis College. Copies of the form may be obtained from the high school guidance counselor or from the College Scholarship Service, Box 176, Princeton, New Jersey, 08540.

4. File all required forms by February 15th for scholarships for the

following academic year.

### SPECIAL SCHOLARSHIPS

THE MOST REVEREND THOMAS E. MOLLOY MEMORIAL SCHOLARSHIP. Established by the Board of Trustees in memory of the late Bishop of Brooklyn, a distinguished alumnus of St. Francis College. This

scholarship is restricted to residents of Brooklyn, Queens, Nassau and Suffolk Counties.

THE RIGHT REVEREND MSGR. JOSEPH V. McCLANCY MEMORIAL SCHOLARSHIP. Established by the children of the Catholic schools in memory of their distinguished superintendent, an alumnus of St. Francis College. This scholarship is restricted to residents of Brooklyn, Queens, Nassau and Suffolk Counties.

THE RIGHT REVEREND MSGR. DANIEL U. HAHRAHAN SCHOLARSHIP. This scholarship is named for a distinguished alumnus of St. Francis College, and is solely for residents of Sacred Heart Parish, Cambria Heights, Queens.

THE BROTHER AUSTIN SULLIVAN, O.S.F. MEMORIAL SCHOLARSHIP. Established by the friends of Brother Austin Sullivan, O.S.F., this scholarship is solely for a graduate of St. Francis Preparatory School.

THE BROTHER JEROME ROESE O.S.F. MEMORIAL SCHOLARSHIP. Established in memory of a former president of St. Francis College, this scholarship is restricted to students from St. Vincent's Home, Brooklyn.

Kings County Chapter, Catholic War Veterans Scholarship. This scholarship is restricted to a member or son of a member of the Kings County Catholic War Veterans.

Leadership Scholarships. This award, established to help students receive the education necessary for responsible community leadership, is solely for students of Puerto Rican or Negro extraction. In addition to the usual scholarship requirements, an applicant for this scholarship must furnish a letter of recommendation attesting to his capabilities for responsible leadership in the community.

The Catholic Accountants Guild Scholarship. This scholarship is solely for accounting students in the senior class.

#### **GRANTS-IN-AID**

A limited amount of money is available to assist needy and deserving students. These grants-in-aid are distinguished from scholarships in that they are based on extreme need. A student receiving a grant-in-aid from St. Francis College must maintain the quality point index required of his class. These grants are for one academic year only, but may be renewed upon application.

Students applying for a grant-in-aid should complete the application form and return it to: Director of Financial Aid, St. Francis College, 180 Remsen Street, Brooklyn, New York, 11201. A copy of the Parents Confidential Statement must be completed and sent to the College Scholarship Service, Box 176, Princeton, New Jersey, 08540, with instructions to forward a copy to St. Francis College. Complete application must be submitted by April 15th of the academic year preceding that for which aid is requested. Brothers and/or Sisters in simultaneous attendance: A reduction in tuition rate is available for families with more than one dependent attending St. Francis at the

Financial Aid 35

same time. Forms for reduction in tuition may be obtained from the Director of Financial Aid.

### **EDUCATIONAL OPPORTUNITY GRANTS**

The Higher Education Act of 1965 authorized the use of federal money to assist college students with exceptional financial need. These grants are available to a limited number of students. They range from \$200 to \$1,000 a year and can be no more than one-half of the total assistance given the student. The exact amount of the grant will depend upon the demonstrated need. They are given for one year, renewable annually. A new application and statement of finances is required for renewal.

### **COLLEGE WORK-STUDY**

Under a grant from the Federal Department of Health, Education, and Welfare, St. Francis College is able to offer employment to students with financial need. The College and the federal government contribute funds for this program. The College work-study program provides employment in various departments of the college and also "off campus" employment with governmental and social service agencies in the metropolitan area. Interested students should contact the Director of Financial Aid at the College.

### STUDENT LOANS

National Defense Education Act of 1958 provides for long-term low interest loans to college students in financial need. Both St. Francis College and the Federal Government contribute funds to the loan program. Preference is given to students in teacher training, science, mathematics, and foreign language programs. To qualify for a National Defense Student Loan, the applicant must be in good standing or be accepted for admission and demonstrate financial need. An application may be obtained by writing to the Director of Financial Aid, St. Francis College, 180 Remsen Street, Brooklyn, New York 11201.

State Loan Programs. The New York Legislature in 1957 created the New York Higher Education Assistance Corporation to administer a program of educational loans to deserving students. Students who are residents of states other than New York should consult their guidance counselors for information regarding the loan programs in their state.

PRIVATE LOAN PROGRAMS. In addition to the loan programs described above, a variety of privately sponsored loan and "deferred programs" are available to the St. Francis College student. These plans enable families to distribute the payment of all college expenses over the academic year and normally include life insurance coverage. Brochures describing in detail the various programs may be obtained by writing to the Director of Financial Aid, St. Francis College, 180 Remsen Street, Brooklyn, New York 11201.

#### **REGENTS SCHOLARSHIPS**

Under this program more than 20,000 scholarships are offered to students entering colleges in New York State. Selection is based on the Regents Scholarship College Qualification Test administered in secondary schools during the Fall of senior year. Students should be certain to take this examination. In addition, special awards are available to children of deceased veterans. The amount of the award is based on need as determined by net income of the family. Provision is made should more than one student in the family be attending college. The applicant must be a resident of New York State, and the funds may be used in colleges in New York State only. Detailed information regarding this program may be obtained from the high school guidance counselor.

Scholars Incentive Awards. In conjunction with the Regents Scholarships referred to immediately above, the Scholars Incentive Award Program allows students to receive a smaller award to be used for college costs. Requirements for this award are much less stringent than for the Regents Scholarship awards. Students qualify on the basis of their performance on the Regents Scholarship and College Qualification Test referred to above. Awards may be used in colleges in New York State only. Students should contact their high school guidance counsellor for information on this program.



# **Student Services**

Student Services at St. Francis College begin with pre-admission counseling and orientation of freshmen, and continue with vocational, educational, physical, and personal guidance, as well as student co-curricular activities, job placement, and follow-up. They are concerned with assisting the student in a successful adjustment to the College and life, spiritually, academically, socially, and emotionally.

#### FRESHMEN ORIENTATION

Freshman orientation is held for each incoming class at the opening of the Fall semester. Its objectives are to welcome the new student to the College; to acquaint the student with the rules and regulations of the institution, the members of the faculty, and the services offered; to offer initial advice relative to collegiate methods and problems; to familiarize the student with extra-curricular activities; to establish definite relations between the students, faculty, and administration; and to provide aptitude, achievement, and interest testing.

#### **FACULTY ADVISORS**

Faculty Advisors are appointed to assist the students in planning their courses of study and serve them in their academic life. Every student must have his courses approved by his advisor at the time of pre-registration and at registration. Students have as advisor the head of the department of their major field of study. The advisors are available to students at the time of registration for each semester and by appointment at other times in their respective faculty offices.

#### **GUIDANCE CENTER**

The Guidance Center is a professional agency that provides the students with personal, vocational, and educational counseling. In addition, the Guidance Center provides the students with special services, by administering such programs as graduate school planning, vocational planning, testing, sensitivity training, and placement. It is the aim of these programs to help each student adjust to college and successfully complete his or her education.

The Guidance Center is located in Room 702A, and its services are available to all students.

#### **HEALTH SERVICE**

The Student Health Service is equipped to provide emergency and first aid attention. Health guidance is available to promote the wellbeing of the students. Medical suite contains a cot and other short-term

facilities. Appointments can be made with local general practitioner when necessary. Several hospitals are near the College.

#### MEDICAL-ACCIDENT INSURANCE PROGRAM

All registered students are automatically covered by a medical-accident plan.

The benefits and limitations of this plan are as follows:

- 1) It pays the actual medical expense incurred within twenty-six weeks from date of an accident for injuries sustained while traveling to and from school, while in attendance at school, and while participating in school-sponsored activities.
- 2) Payment will be made up to \$2,500 for each injury. Additionally, a flat sum of \$2,500 will be paid in the event of accidental death and up to \$2,500 for dismemberment.
- 3) The plan does not cover replacement or repair of eyeglasses or prescriptions, dental X-rays, or loss due to act of war. Dental expense is covered only to the extent of that incurred as a result of injury to sound natural teeth not to exceed an aggregate of \$100 for any one accident.

It also excludes expense of medical treatment, dental care, or attention by any doctor, intern, nurse, or other person employed or retained by the school. Loss while in military or naval service is not covered. This plan is broad in scope, covering all sports except intercollegiate football.

Information or advice on claims is handled by the Medical Office.

#### **ACTIVITIES**

The College offers an organized program of extracurricular activities broad and varied enough to meet student interests and needs. Divisional clubs have been organized to assist the students in coordinating their academic efforts and acquainting them with the most recent and vital personalities and movements in their field. Juniors and seniors should attend the meetings of the club that represents the student's major subject.

The student activity program is supervised by the Faculty Committee on Student Activities and by the Student Government, and is administered by the Office of the Dean of student affairs.

The Student Government of St. Francis College is concerned with the organization and coordination of the student body of the College. It is concerned with the affairs of the students in their relations with the College and the surrounding communities. The purpose of the Student Government is to act as a sounding board for all student interests, while at the same time assuming the task of providing efficient and productive leadership for the students. Elected annually by the student body, the Student Government derives its power from and is essentially responsible to the students. Thus, the Student Government is an extension of the will of the majority of the students in the College. It is

the responsibility of the Student Government to act as the legitimate representative of the student body before the various groups involved with the College Community.

Student Group Leaders are outstanding students selected by the Student Government to assist in the various programs of student services. During orientation week they help conduct the many activities for the new students. They meet with groups of freshmen assigned to them and conduct orientation lectures. They also serve as hosts at the career conferences and as ushers at assemblies and religious services.

The Duns Scotus Honor Society has as its primary aim the encouragement among students of a love and desire for excellence in scholarship and service to all the activities of the College. The secondary aim is to honor and recognize worthy students who, by outstanding attainment, have won the esteem of their fellow students, members of the administration, and the faculty. A student will be eligible to seek membership only after the completion of the sophomore year. At commencement, each member will have the privilege of wearing a distinctive tassel on the cap as an emblem of the student's membership. Membership does not cease at graduation. Alumni and other distinguished persons who have rendered outstanding service to the College may be elected as honorary members.

OMICRON DELTA EPSILON, Eta Chapter, is a national economics honorary fraternity. The St. Francis group is limited to juniors and seniors who have a cumulative index of 3.00 and have earned twelve credits in economics with a better than 3.00 average.

Phi Alpha Theta. Theta Nu Chapter, of the national honor fraternity was established at St. Francis in 1961. Membership is limited to juniors and seniors who have an index in history of 3.00 and a cumulative index of better than 2.80. Members must have at least twelve semester hours of history.

SIGMA DELTA PI. Zeta Theta Chapter, of the national Spanish fraternity was established in 1967. Membership is limited to juniors and seniors who have an index in Spanish of 3.00 and rank in the top 35% of their class.

Kappa Mu Epsilon, New York Theta Chapter, of the national mathematics honor society, is a vehicle for discussions and undergraduate research in mathematics. Membership is limited to sophomores, juniors, and seniors who have an index in mathematics of 3.00 and a cumulative index of 2.75 or better. Members must be mathematics or physics majors and have had at least twelve credits in mathematics.

ALPHA KAPPA PSI, Zeta Iota Chapter, Professional business fraternity, has been at St. Francis since May, 1964. The fraternity's aims are to further the welfare of its members; to foster research in all facets of business; to appreciate and demand higher ideals from the business world; and to promote and advance in colleges and universities courses leading to degrees in business administration. In accordance with these

goals the fraternity annually conducts a professional program intended to educate and broaden the interests of its members.

THE SCIENCE CLUB has been organized to provide those students who have a special interest in chemistry, biology, and physics with the opportunity of pursuing their major work outside the classroom and laboratory.

THE INTERNATIONAL RELATIONS CLUB fosters an interest in the political, economic, and cultural history of man. Its programs relate especially to contemporary international affairs.

THE PHILOSOPHICAL SOCIETY is a forum for informal discussion and shared inquiry on philosophical issues and includes a program of guest lectures.

 $T_{\rm HE\,B\,USINESS}$   $C_{\rm LUB}$  aims to arouse the interests of the student body in current business affairs and practices with guest speakers and informal discussions by the members.

THE TROUPERS is the dramatic organization of the College. The members act in, produce, and direct several full-length and one act plays each year. Regular meetings are held, at which guests from the professional theater demonstrate techniques. Its aims are not only cultural and literary, but also practical since it offers experience in the craft of the theater.

The St. Thomas More Pre-Law Society seeks to inform the potential law student of the many facets of the student's proposed profession. During the year representatives of law schools and other professional people address the members. Information about the requirements for taking the Law School Admission Test are discussed by the membership.

THE SOCIOLOGY CLUB is organized to give students of sociology an opportunity to deepen their understanding of existing social problems. To achieve this goal, specialists in the field are invited as speakers, and field visits are arranged.

St. Francis College is represented in the National Federation of Catholic College Students by two representatives elected by the Student Council. The Federation was formed to develop lay Catholic leadership among college students.

Fraternities: Five fraternities offer social advantages that appeal to many students. Pi Alpha, founded in 1906, is a local student organization; Phi Rho Pi, Beta Chapter, was founded in 1922; Omega Delta Chi, another local group, was organized in 1961; Alpha Phi Delta, Beta Sigma Chapter, was established on the campus in 1961; and Sigma Gamma Pi was established in 1967.

P<sub>HI</sub>K<sub>APPA</sub>C<sub>HI</sub>, a sorority, was founded in 1970. The basic aims of the Sorority are the promotion of friendship and social interaction, to diffuse liberal culture and to advance equality in college affairs. The sorority hopes to form a body which will wield a beneficial influence on its members and on college life.

The Knights Of Columbus. St. Francis of Assisi Council 6041, is dedicated to the principles of charity, unity, fraternity, and patriotism, and fosters these principles through its various activities.

The Voice is the College newspaper, edited and published by the students.

THE FRANCISCAN is published annually by the members of the senior class to record the history of the class and the important College activities of the year.

THE CORD is a student handbook that contains the traditions, rules, and regulations of the College. It contains valuable and detailed information for all students.

THE PROFESSOR DELANEY DEBATING SOCIETY seeks the development of interest among students in intercollegiate and intramural debating.

THE ASSOCIATION OF EVENING STUDENTS was formed to promote the interest of the evening students in the extracurricular activities of the College. The Association appoints a representative to the Student Council.

THE GLEE CLUB, in addition to performing at student assemblies, participates in college competitions and takes part in joint concerts with local colleges.

THE ST. Francis College Film Society has been formed so that the classics of the cinema can be brought within easy reach of its members. Anyone, college age or older, can become a member by paying the twenty-five cents dues and obtaining a membership card, which will allow him to buy tickets. The card must be presented each time a ticket is purchased. New members may obtain cards wherever tickets are being sold.

THE MATHEMATICS CLUB meets weekly in seperate sections for the lower and upper divisions. It covers graduate record problems, opportunities in graduate schools and employment, the use of mathematical instruments, and topics not usually covered in the regular curriculum.

THE PSYCHOLOGY CLUB stimulates interest in psychology, especially in those areas that are not specifically covered in course work. This goal is achieved by means of guest lecturers and field trips.

THE COMMITTEE ON SOCIAL ACTION was formed at St. Francis College in 1967. The aim of this voluntary student group is to work among the underprivileged in either recreational or tutorial programs.

THE ECONOMICS SOCIETY is a co-curricular activity designed to stimulate the interest of economics students with frequent meetings and field trips in the metropolitan area.

THE CHESS CLUB operates both intermurally, and intramurally.

THE LATIN AMERICAN SOCIETY provides a friendly, informal atmosphere in which to explore and develop the common interests of the students' Latin American Studies. Its activities include weekly meetings, speakers, slides, films, excursions and conferences.

Young Christian Students (YCS) is concerned with educating its members to some of the requirements of social and political life. Members have engaged in tutoring children in some of the less economically privileged sections of the Brooklyn community.

St. Boniface German Club This club is intended as a supplement to the German courses offered at St. Francis College. Students taking German as their foreign language are encouraged to participate in the meetings, which include films, discussions, occasional lectures on German culture and related topics, and other activities that may be announced. In the past the club represented our College in the September Steuben Parade.

THE AFRO-AMERICAN CLUB was founded in the Spring of 1968, and seeks to satisfy the needs of the minority student. It aims to foster a better understanding of minorities, both within and without the college community.

THE STUDENT EDUCATIONAL ASSOCIATION is the pre-professional associaassociation for college and university students preparing to teach. It is an intergral part of the National Education Association (N.E.A.)—a voluntary, independent, and non-governmental professional association.

 $T_{\rm HE\,ICE\,HOCKEY}$  Club was formed in 1968 and organized a league. This club is student-sponsored, student-supported and has won three consecutive championships.

 $T_{\text{HE}}\,S_{\text{PANISH}}\,C_{\text{LUB}}$  was reactivated in 1968. Its aim is to foster an appreciation of Spanish Culture.

#### THE ATHLETIC ASSOCIATION

Under the supervision of the Athletic Policy Committee, the Association promotes the athletic interests of the College and regulates all matters of management pertaining to collegiate and intercollegiate athletics. Intercollegiate participation is available in the following sports: baseball, basketball, bowling, track (relay and cross-country), golf, tennis, swimming, waterpolo, and riflery. Intramural activities are open to all students in badminton, basketball, boxball, foul shooting, golf, handball, horseshoe pitching, riflery, softball, swimming, tennis, track, volleyball, and bowling. The College provides a program of intercollegiate and intramural athletics in which the student may participate according to his ability.

# **Academic Regulations**

#### **CREDIT HOURS**

Units of achievement are recorded as credit hours. Each credit hour represents fifteen hours of regular class participation in a lecture or thirty or more hours in a laboratory. For example, a science course might consist of two one-hour lectures and two two-hour laboratory periods each week, making a total of four credit hours for the course for one semester.

#### REGISTRATION PROCEDURE

Each student will be required to have a conference with his or her advisor during the early registration period in order to have the selection of courses for the following semester approved. Final registration takes place on the days indicated in the academic calendar and is contingent on a record of satisfactory marks for the previous semester. Any changes in the original program outlined at the time of early registration must be approved by the advisor at the time of final registration. Enrollment after the days designated in the catalogue will be permitted only with the consent of the Academic Dean and only for a satisfactory reason. Late registrants will be charged a fee of \$10.00 and will be held responsible for all absences due to late registration.

Registration will not be complete until the payments required by the Controller's Office have been made. No student may report for any course for which he has not registered. The student must attend the section selected unless permission has been obtained from the Registrar to change from one section to another. A student may not register for a course unless all pre-requisites have been satisfied. Permission will not be given to a student to audit courses except in special cases allowed by the Academic Dean. In such cases, the student will pay the regular fees.

#### **CHANGE OF PROGRAM**

A student may change the program after the close of the registration period only with the written authorization of each instructor involved and the approval of the Academic Dean. A payment of \$5.00 will be required for any change of program at the time the change is made.

Students who wish to change degree programs must obtain the permission of the Academic Dean. Evening Students may arrange for an evening appointment by calling the Academic Dean's Office from 9:30 a.m. to 4:30 p.m. any school day.

Students who wish to change from Day Session to Evening Session or from Evening Session to Day Session must seek this permission by writing to the Academic Dean. If a conference is necessary, an appointment will be arranged.

All Summer sessions are open to students who are in good standing, regardless of their session status during the regular academic year.

Students enrolled in one session may register for some or all of the classes in another session with the permission of the advisor. This does not constitute permission to transfer to the respective session; such permission must be sought as above.

#### PROGRAMS OF STUDENTS

Full-time students may not carry fewer than twelve or more than eighteen credit hours a semester. Permission to take more than eighteen hours may be granted by the advisor. A day student on probation may not take more than fifteen credits. An evening student on probation may not take more than six credits. The minimum credit load does not apply to seniors in their last term, who may need fewer than twelve credits to complete their degree reguirements. The minimum credit regulations do not apply to students in late afternoon or evening sessions. Evening students may not carry more than twelve credits per semester without permission of their advisor.

#### **GRADES, CREDITS**

The student's achievement in any course is determined by the combined results of class work and examinations and is recorded according to the following scale:

A, 90-100; B, 80-89; C, 70-79; D, 60-69; F, below 60; W, withdrawal; H, honors: P, passed.

When withdrawing from a course for which a student has registered, a student is required to inform the Registrar's office and the Controller's Office. The date of withdrawal is determined by the date on which the student informs both offices. A student withdrawing from a course before the sixth week (second week in summer) shall be given a grade of W with the approval of the Academic Dean upon the recommendation of the instructor. Students withdrawing from a course after the fifth week (second week in summer) for other than serious medical reasons shall receive a grade of F.

A student receiving a grade of F in a required course must repeat that course the next term it is offered. No work of D grade may be credited for any course taken in the major field without the written approval of the Department Chairman. A student may not repeat a course to raise the grade except with the permission of the advisor.

Under a special ruling of the faculty, a student may not expect to receive a passing grade in any subject in which the student fails to maintain standards of good English in essays, examinations, and other written requirements for the course.

#### REPORT OF MARKS

As soon after each term as all grades have been reported and recorded, each student will receive a report of one's marks. This report should be presented at the time of each conference with the advisor.

#### **SCHOLARSHIP**

Qualitative achievement is recorded by means of quality points as follows:

For A grades (90-100)—4 quality points per credit.

For B grades (80-89)—3 quality points per credit.

For C grades (70-79)—2 quality points per credit.

For D grades (60-69)—1 quality point per credit.

For F grades (below 60)—no quality points.

The quality point index indicates a student's scholarship rating and is obtained by dividing the total number of quality points by the total number of credit hours.

When a course is repeated and a higher grade is achieved, the previous grade is not included in the student's index, provided the student has filed a "Repeat Course Form."

If during the freshman year a student's index is below 1.50 the student will be subject to probation. If during the sophomore year a student's index is below 1.75 the student is again subject to probation, and during the junior year, if the student's index is below 2.00 the student is likewise subject to probation. A quality point index of 2.00 is required for graduation.

No student will be maintained on probation more than two successive times and may be dropped from the rolls of the College, at any time, for poor academic standing.

Only courses completed at St. Francis College are evaluated for purposes of index and honors. Courses taken under the Junior Year Abroad Program are included in the total index.

#### HONORS

Each term a list of honor students is published by the Academic Dean. It is a recognition of the student's achievement in scholarship and the student's ability to handle work. Included in the list are those students who have achieved a quality point index of 3.00 or better and have carried the following number of credits:

Day students—12 or more credits.

Evening students—9 or more credits.

Later afternoon students-6 or more credits.

Election to the Duns Scotus Honor Society is made each year and is limited to junior and senior students. Only those students are eligible who have attained high scholarship and have demonstrated their service to the ideals and activities of the College. Election entitles the students to wear the key of the Society, which is conferred at a special assembly each year.

#### **PASS-FAIL COURSES**

Any student studying a foreign language on the 100 level (101-102; 103-104; 105-106) may request to take this course on a Pass-Fail basis. Juniors and seniors not on probation may select one elective

course each term to be recorded on their permanent record on the Pass-Fail basis. This privilege may be used for a maximum of four terms and only one elective course may be selected each term. Courses required in the Core Curriculum or major department may not be so designated.

The course must be so designated by the student on the special form provided by the Registrar's Office no later than the end of the second week of the school term (first week of Summer Session). This privilege does not excuse students from all required work of the particular class.

#### WITHDRAWAL

Students obliged to withdraw from the College should report to the Registrar's Office for instruction in proper procedure.

#### **COURSES AT OTHER INSTITUTIONS**

The College does not grant permission to pursue courses at other institutions except when a required course in not being offered during the semester at St. Francis. Where such permission is granted, the combined programs may not exceed eighteen credit hours per semester. Permission may be granted to attend the summer session at another institution provided the courses sought are required and are not being offered at St. Francis. In no case may a student take a total of more than six credits during a six-week summer session.

Permission may be granted to take courses at another institution only when:

1. The student has not entered upon the senior year.

2. The student has an index of 2.00.

3. Written approval for the required courses has been granted by the head of the department concerned and the Academic Dean.

4. Official premission of the Academic Dean has been secured before the end of the preceding semester.

Credit will be transferred only for courses completed with a grade of C or better.



# **Requirements for Degrees**

The College offers the B.A. Degree with majors in Economics, English, French, Health Science, History, Latin-American Studies, Philosophy, Physical Education, Political Science, Psychology, Social Studies, Sociology, Spanish, Teacher Training for Secondary School certification in English, French, Health Education, Physical Education, Social Studies, and Spanish, Teacher Training for Elementary School certification, and Urban Studies; the B.B.A. Degree with majors in Accounting and Business Management and Teacher Training for Secondary School certification in Accounting and Business Practice; and the B.S. Degree with majors in Biology, Chemistry, Mathematics, and Physics, as well as Teacher Training for Secondary School certification in Biology, Chemistry, and Mathematics.

The College offers the Associate Arts Degree in Liberal Arts and Pre-Teaching; and the Associate Applied Science Degree in Business Administration and Computer Science

A candidate for a degree must complete the required courses as outlined in the student's respective curriculum and have a cumulative index of at least 2.00.

The Health and Physical Education requirement of two credits can be met by taking HE 202 and any other course selected from among PE 101, 102, or 201.

Transfer students with less than thirty transfer credits must meet the two credit requirement. Transfer students with more than thirty transfer credits, and honorably discharged veterans who have served more than six months active service in the Armed Forces of the United States, must complete HE 202.

Evening students are exempt from the Health and Physical Education requirement.

Students who participate in intercollegiate athletics must follow the regular registration procedures. They are excused from attendance in the PE 101 - 102 classes during the season of the sport in which they participate. The season of a sport starts at the first official practice and ends after the last official contest. Athletes must then report back to their regular Physical Education classes.

Honorably discharged veterans having completed eighteen months or more of active service in the Armed Forces of the United States may be granted up to ten credits of the elective requirements toward a degree. These credits may never substitute for required courses or for courses in the student's major field. Application for these credits must be made to the Academic Dean.

Each candidate for a baccalaureate degree must complete a major field of study and obtain a passing grade on a comprehensive examination or project in the student's major field. Education 404 (observation and Supervised Practice Teaching) satisfies the comprehensive requirement for students in the Teacher Training Program.

Graduation honors are inscribed on diplomas and recorded in the published list of graduates as follows:

The degree of SUMMA CUM LAUDE will be conferred upon a candidate who has achieved a quality point index of 3.80.

The degree of MAGNA CUM LAUDE will be conferred upon a candidate who has achieved a quality point index of 3.50.

The degree of CUM LAUDE will be conferred upon a candidate who has achieved a quality point index of 3.20.

A student must complete 90 credits at St. Francis for these honors.

#### **Required of all Students**

#### **CORE CURRICULUM**

BACCALAUREATE DEGREE PROGRAMS	Credits
'ENGLISH	*6
rine ARTS 401; 402	6
SPEECH 203	3
↑ NATURAL SCIENCE OR MATHEMATICS	6
PHILOSOPHY 101 or 314 To	3
PHILOSOPHY 201 or 302 —	3
PHILOSOPHY 403 or 404 —	. 3
SIX ELECTIVE CREDITS	
IN LIBERAL ARTS	***6
F HISTORY 201	3
, SOCIOLOGY 203	3
TOTAL CORE CREDITS	42
TOTAL DEGREE CREDITS	126
HEALTH SCIENCE AND PHYSICAL EDUCATION	**2

<sup>\*</sup> Non-English majors are advised to choose among the following: Eng. 120; 121; 122; (formerly 407A). Prospective English majors should begin with Eng. 299.

#### CORE CURRICULUM—ASSOCIATE DEGREE PROGRAMS

	Credits
ENGLISH	*6
FINE ARTS	3
SPEECH 203	3
NATURAL SCIENCE OR MATHEMATICS	6
PHILOSOPHY	6
HISTORY 201	3
SOCIOLOGY 203	3
<b>*</b>	TOTAL 30

<sup>\*</sup> Students are advised to choose among the following: Eng. 120; 121; 122 (formerly 407A).

<sup>\*\*</sup> The Physical Education credits are in addition to the 126 credits and are required of all full-time students.

<sup>\*\*\*</sup> These credits may **not** be elected from the areas of Accounting, Business Management, Education, Health Science or Physical Education.

#### **MAJOR FIELD OF CONCENTRATION**

All students must designate a major field from among those offered by the college. Designation of Major forms must be filled out in duplicate and filed in the Registrar's Office. Students are responsible to their major department for advice on planning their registration programs.

#### COMPREHENSIVE EXAMINATION OR PROJECT

During the senior year every candidate for a baccalaureate degree shall take a comprehensive examination and/or complete a research project.

Specific information about the comprehensive may be obtained from the head of the department concerned.

The grades earned in the comprehensive examination or project shall be signified as follows.

H	honors	90 or better
P	pass	70-89

Students who merit a grade of "H" in the comprehensive may be exempt from final examinations in all courses in their major field at the end of the senior year at the discretion of the department.

#### SENIOR REQUIREMENT

The final thirty-two credits for the degree must be earned at St. Francis College.

#### **APPLICATIONS FOR A DEGREE**

Early in the last year of college each candidate will file with the Registrar a formal application for a degree.

# **Departmental Organization**

### The College is divided into the following departments:

Accounting and Business Law

**Biology** 

**Business Management** 

Chemistry

**Economics** 

Education

**Electronic Data Processing** 

English

Health Science and Physical Education

History and Political Science

Mathematics and Physics

Foreign Language

Philosophy

**Psychology** 

Religious Studies

Sociology

Speech and Fine Arts

#### **Accounting and Business Law Department**

Professor Charles L. Savage, Department Chairman
This department offers a major in Accounting and courses in Accounting
and Business Law.

### **Accounting**

	Credits
CORE CURRICULUM* (Mathematics 105; 108; Philosophy 314)	42
BUSINESS LAW 201; 202	6
BUSINESS MANAGEMENT 201; 202; 303; 308; 400	15
ECONOMICS 201; 202; 306	9
ELECTRONIC DATA PROCESSING 201	3
HISTORY 101-102	6
MATHEMATICS 301	3
ACCOUNTING 101-102; 201; 202; 303-304; 305-306; 401-402;	
404; 405-406	30
ELECTIVES	12
	126

## **Biology Department**

Professor Joseph Martorano, Department Chairman This department offers a major in Biology.

## **Biology**

	Credits
CORE CURRICULUM* (Mathematic 202; 203)	43
CHEMISTRY 101-102; 301; 302	18
FRENCH, GERMAN OR RUSSIAN‡	6 or 12
PHYSICS 101-102	8
BIOLOGY 103-104; "200-300-400" ELECTIVES	32
ELECTIVES	13 or 19
	126

<sup>\*</sup>See page 48

‡One year of a continuing language or two years of a new language.

### **Business Management Department**

Professor Stanley S. Willing, Department Chairman This department offers a major in Business Management.

## **Business Management**

	Credits
CORE CURRICULUM* (Mathematics 105; 108; Philosophy 314)	42
ACCOUNTING 101-102	6
BUSINESS LAW 201; 202	6
ECONOMICS 201; 202; 306	9
✓ ELECTRONIC DATA PROCESSING 201	3
HISTORY - TWO COURSES	6
• MATHEMATICS 301	3
* POLITICAL SCIENCE 404	3
BUSINESS MANAGEMENT 201; 202; 301; 302; 303; 308; 310; 400;	
403; 404	30
ELECTIVES	18
_	126

<sup>\*</sup>See page 48

#### Chemistry

Professor John Burke, Department Chairman This department offers a major in Chemistry.

### Chemistry

	Credits
CORE CURRICULUM* (Mathematics 202; 203)	43
BIOLOGY 103-104	8
ELECTRONIC DATA PROCESSING 203	3
MATHEMATICS 401	3
PHYSICS 101-102	8
CHEMISTRY 101-102; 201; 301; 302; 303; 401-402; 404; 501;	
502; "300-400" ELECTIVES	37
ELECTIVES	24
	126

<sup>\*</sup>See page 48

#### **Economics Department**

Professor Michael Casey, Department Chairman

This department offers a unique course of study leading to a major in Economics. Its curriculum is designed to provide for a flexibility in course offerings which is necessary for a continued relevance in a changing world.

The student of Economics prepares for careers in business, education, or government. While an Economics major enjoys all the advantages of a liberal arts education he further enjoys the additional flexibility of some specialization in business subjects such as accounting, computer science, and business management. Election of courses in the business area qualifies the student for graduate study in business. By election of courses in foreign languages and/or mathematics, the Economics major is also qualified to enter graduate programs in Economics.

#### **Economics**

	Credits 42
CORE CURRICULUM* (Mathematics 105; 108)	
ACCOUNTING; BUSINESS MANAGEMENT; FOREIGN LANGUAGE	Ε;
MATHEMATICS; COMPUTER SCIENCE. (A six or	
twelve credit sequence)	12
HISTORY 101-102	6
MATHEMATICS 301	3
POLITICAL SCIENCE 204	3
ECONOMICS 201; 202; 306; 400; 406; 408 or 409;	
"300-400" ELECTIVES	33
ELECTIVES	27
	126

<sup>\*</sup>See page 48

#### **Education Department**

Brother Cosmas Herlihy, O.S.F., Department Chairman

The Department of Education offers courses required by New York State and the Board of Education of the City of New York. Students are prepared to meet the New York State Provisional Certification requirements in Elementary Education in English, Social Studies, Mathematics, Spanish and Secondary Education in English, French, Spanish, Social Studies, Biology, Chemistry, Mathematics, Physical Education, Health Education, and Accounting and Business Practice.

Students interested in teaching should consult with the Head of the Department of Education during the freshman year in order to discuss professional and subject requirements. All programs for students in Teacher Education must be approved by the Head of the Education Department. Students must take a minimum of eighteen semester hours in Education courses, as indicated in each particular curriculum.

Certification to teach in elementary and secondary schools of New York State is granted by the State to those students who complete an approved program in Teacher Education. In granting this certification, the State requires a balance of courses in three areas of study: (1) general-liberal education; (2) professional studies in education; (3) academic or subject areas the candidate expects to teach. Students completing one of the Teacher Training Curriculums will receive New York State Provisional Certification and will be eligible to complete the fifth year requirement of permanent certification at an institution of the student's choice. Students are also eligible for substitute license examinations in the New York City Board of Education. Students entering teaching upon graduation may complete the thirty semester hours of graduate work (fifth year) on a part-time basis to satisfy the requirements for permanent certification in New York State.

Students entering the teacher training program may not be on probation and must maintain a 2.00 overall index and a 2.50 index in their major subject field. Students are urged to observe the curriculum requirements in their chosen field, and are held responsible for choice and successful completion of the curriculums as outlined for them. Their official advisor is the chairman of the Education Department. Supplemental material may be obtained from the Education Department.

# **Secondary School Teacher Training Curriculum Accounting and Business Practice**

	Credits
CORE CURRICULUM* (Mathematics 105; 108)	42
ACCOUNTING 101-102; 201; 202; 303-304; "300-400" ELECTIVES	S 22
BUSINESS LAW 201; 202	6
BUSINESS MANAGEMENT 201	3
ECONOMICS 201; 202; 306; 311	12
EDUCATION 201; 301; 302; 401j; 401k; 402; 404	20
ELECTRONIC DATA PROCESSING 201	3
HISTORY 101; 102	6
MATHEMATICS 301	3
ELECTIVES	9
_	126

<sup>\*</sup>See page 48

# **Secondary School Teacher Training Curriculum Biology Major**

	Credits
CORE CURRICULUM* (Mathematics 202; 203)	43
CHEMISTRY 101-102	. 8
EDUCATION 201; 301; 302; 401h; 402; 404	18
FOREIGN LANGUAGE	6
PHYSICS 101-102	8
SCIENCE 301-302	6
BIOLOGY 103-104; 303; "200-300-400" ELECTIVES	24
ELECTIVES	13
	126

<sup>\*</sup>See page 48

# **Secondary School Teacher Training Curriculum Chemistry Major**

	Credits
CORE CURRICULUM* (Mathematics 202; 203)	43
BIOLOGY 103-104	. 8
EDUCATION 201; 301; 302; 401h; 402; 404	18
FOREIGN LANGUAGE	6
PHYSICS 101-102	8
SCIENCE 301-302	6
CHEMISTRY 101-102; "200-300-400" ELECTIVES	26
ELECTIVES	11
	126

<sup>\*</sup>See page 48

# **Secondary School Teacher Training Curriculum English Major**

	Credits
CORE CURRICULUM*	42
EDUCATION 201; 301; 302; 401c; 401g; 402; 404	20
FOREIGN LANGUAGE	12
HISTORY 101; 102	6
MATHEMATICS OR SCIENCE‡	6
SPEECH	6
ENGLISH 299; 401j or 401k; 402x or 402y; 122 (Formerly 407A)	_
"300-400" ELECTIVES	30
ELECTIVES	4
	126

<sup>\*</sup>See page 48

<sup>‡</sup> If Mathematics is used to satisfy the core curriculum requirement then Science must be selected or vice versa.

# Secondary School Teacher Training Curriculum French Major

,	Credits
CORE CURRICULUM*	42
EDUCATION 201; 301; 302; 401d; 402; 404	18
ENGLISH "300-400" ELECTIVES	6
HISTORY 101; 102	6
MATHEMATICS OR SCIENCE†	6
FRENCH 302; 303; 404; 405; ELECTIVES‡	30
MINOR LANGUAGE‡	12
ELECTIVES	6
	126

\*See page 48

# **Secondary School Teacher Training Curriculum Mathematics Major**

	Credits
CORE CURRICULUM* (Biology 103-104 or Chemistry 101-102)	44
EDUCATION 201; 301; 302; 401e; 402; 404	18
FOREIGN LANGUAGE	6
PHYSICS 101-102	8
MATHEMATICS 103; 104; 202; 203; 304; 401; "300-400" Electives	- 37
ELECTIVES	13
•	126

<sup>\*</sup>See page 48

# Secondary School Teacher Training Curriculum Social Studies Major

	Credits
CORE CURRICULUM*	42
ECONOMICS 201; 202	6
EDUCATION 201; 301; 302; 401f; 402; 404	18
FOREIGN LANGUAGE	12
HISTORY 101; 102; 305; 306; 307; 311; 401; 303 or 406	24
MATHEMATICS OR SCIENCE†	- 6
POLITICAL SCIENCE 204; "300-400" ELECTIVE	6
SOCIOLOGY "300-400" ELECTIVE	3
ELECTIVES	9
	126

\*See page 48

<sup>†</sup> If Mathematics is used to satisfy the core curriculum requirement then Science must be selected or vice versa.

<sup>‡</sup> Students offering this language on Admission must be placed in proper level course by Language Department.

<sup>†</sup> If Mathematics is used to satisfy the core curriculum requirement then Science must be selected or vice versa.

# **Secondary School Teacher Training Curriculum Spanish Major**

	Credits
CORE CURRICULUM*	42
EDUCATION 201; 301; 302; 401d; 402; 404	18
ENGLISH "300-400" ELECTIVES	6
HISTORY 101; 102	6
MATHEMATICS OR SCIENCE†	44 M 1 6
SPANISH 308; 310; 402; 405; ELECTIVES‡	30
MINOR LANGUAGE‡	12
ELECTIVES	6
	126

<sup>\*</sup>See page 48

# Elementary School Teacher Training Curriculum Fnglish Major

Liigiisii majoi	Credits
CORE CURRICULUM* (Science 301-302)	42
EDUCATION 201; 202; 312; 402; 404; 411a; 411b;	00
411c; 411d; 431; 434	33
ENGLISH 299, 401j or 401k; 402x or 402y; 122 (Formerly 407a) "300-400" ELECTIVES	24
MATHEMATICS	6
PSYCHOLOGY 403	3
ELECTIVES	18
	126

<sup>\*</sup>See page 48

# Elementary School Teacher Training Curriculum Mathematics

	Credits
CORE CURRICULUM* (Science 301-302)	42
EDUCATION 201; 202; 312; 402; 404; 411a; 411b; 411c;	33
411d; 431; 434 MATHEMATICS 103; 104; 202; 203; 301; 304; 401; 300-400	, ,
ELECTIVES	31
PHYSICS 101-102	8
PSYCHOLOGY 403	3
ELECTIVES	126

<sup>\*</sup>See page 48

<sup>†</sup> If Mathematics is used to satisfy the core cirriculum requirement then Science must be selected or vice versa.

<sup>‡</sup> Students offering this language on Admission must be placed in proper level course by Language Department.

# **Elementary School Teacher Training Curriculum Social Studies**

	Credits
CORE CURRICULUM* (Science 301-302)	42
ECONOMICS 201-202	6
EDUCATION 201; 202; 312; 402; 404; 411a; 411b;	
411c; 411d; 431; 434	33
HISTORY 101; 102; 307 or 311; 401; 402; 303 or 406	18
MATHEMATICS	6
POLITICAL SCIENCE 204; 300-400 COURSE	6
PSYCHOLOGY 403	3
SOCIOLOGY 301	3
ELECTIVES	9
	126

<sup>\*</sup>See page 48

# **Elementary School Teacher Training Curriculum Spanish**

	Credits
CORE CURRICULUM* (Science 301-302)	42
EDUCATION 201; 202; 312; 402; 404; 411a; 411b;	
411c; 411d; 431; 434	33
HISTORY 306; 307	6
MATHEMATICS	6
PSYCHOLOGY 403	3
SPANISH 308; 310; 402; 405; ELECTIVES‡	27
ELECTIVES	9
	126

### **Teacher Training Curriculum Health Science**

	Credits
CORE CURRICULUM* (Chemistry 003-004)	44
BIOLOGY 003-004; 205	12
EDUCATION 201; 302; 402; 404; 501A	16
HEALTH SCIENCE 101; 102; 103; 203; 204	
205; 301; 302; 303; 304	
401; 403; 461; 463	36
PSYCHOLOGY 403; 404	6
ELECTIVES	12
'See page 48	126

<sup>\*</sup>See page 48 ‡ Students offering this language on Admission must be placed in proper level course by Language Department.

# Teacher Training Curriculum Physical Education

Physical Education	Credits
CORE CURRICULUM* (Biology 003-004)	44
EDUCATION 201; 302; 402; 404; 501B	. 16
HEALTH SCIENCE 101; 203; 205; 403	10
PHYSICAL EDUCATION I, II, III, IV, 103-104;	
203; 205-206; 208; 301;	
302; 304; 305; 307; 402	32
PSYCHOLOGY 403; 404	6
ELECTIVES	18
*See page 48	126

#### **Electronic Data Processing Department**

Arthur J. Cohen, Acting Department Chairman

This department offers a certificate program and an Associate degree in Computer Science. Courses also are given for Accounting, Business and Science majors.

#### **English Department**

Brother Giles Turbee, O.S.F., Department Chairman

This department offers one major in English, with two avenues of approach.

	Credits
CORE CURRICULUM*	42
ENGLISH 299; 402x or 402y; 450; "300-400" ELECTIVES	18
ELECTIVES	66
*See page 48	

Those students who plan to pursue graduate studies in English, are recommended to take an additional 12 credits in English electives including a second course in Shakespeare. Some graduate schools require 12 credits in French or German.

	Credits
CORE CURRICULUM*	42
FRENCH OR GERMAN	12
ENGLISH 299; 402x; 402y; 450; "300-400" ELECTIVES	30
ELECTIVES	42
	126

<sup>\*</sup>See page 48

### Foreign Language Department

Professor Nicholas A. Fiorenza, Department Chairman

This department offers majors in French and Spanish. Courses are offered in French, Spanish, German, Italian, Portuguese, Greek and Latin.

French	Credits
CORE CURRICULUM*	42
FRENCH‡	30
MINOR LANGUAGE‡	12
ELECTIVES	42
	126

\*See page 48

<sup>‡</sup> Students offering this language on Admission must be placed in proper level course by Language Department.

Spanish	Credits
CORE CURRICULUM*	42
SPANISH‡	30
MINOR LANGUAGE‡	12
ELECTIVES	42
	126

\*See page 48

# **Health Science and Physical Education Department**

Professor Daniel J. Lynch, Acting Department Chairman
This department offers majors in Health Science and Physical Education.

Health Science	Credits
CORE CURRICULUM* (Chemistry 003-004)	44
BIOLOGY 003-004; 205	. 12
HEALTH SCIENCE 101; 102; 103; 203; 204;	
205; 301; 302; 303; 304;	
401; 403; 461; 463; 501; 504	45
PSYCHOLOGY 403; 404	6
SOCIOLOGY 304a; 304b	6
ELECTIVES	13
*See page 48	126

Physical Education	Credits
CORE CURRICULUM* (Biology 003-004)	44
EDUCATION 501B	2
HEALTH SCIENCE 101; 203; 205; 403	10
PHYSICAL EDUCATION I, II, III, IV, 103-104;	10
203; 205-206; 208; 301;	
302; 304; 305; 307; 402	32
ELECTIVES	38
*See page 48	126

<sup>‡</sup> Students offering this language on Admission must be placed in proper level course by Language Department.

#### **History and Political Science Department**

Professor James Flynn, Department Chairman This department offers majors in History, Latin American Studies, Political Science and Social Studies.

Latin American Studies	Credits
CORE CURRICULUM*	42
ECONOMICS 201; 202; 310	9
HISTORY 101-102; 305; 306; 313; 314b; 400; 406c; 407	27
POLITICAL SCIENCE 204; 305	6
	6
PORTUGUESE 101-102	3
SOCIOLOGY 307	18
SPANISH‡	3
SPEECH 302	12
ELECTIVES	126
	120

\*See page 48

<sup>‡</sup> Those students have Spanish as a first or native language and so recognized in writing by the Chairman of the Language Department are advised to take Spanish 201-202; 305; 306; 402 and an additional "300-400" course. Students whose certified level of proficiency in Spanish is above the requirements of Spanish 106, may elect as an option to take 18 credits of work in another Modern European language subject to the approval of the advisor.

History	Credits
CORE CURRICULUM*	42
ECONOMICS 201; 202	6
FOREIGN LANGUAGE	12
MATHEMATICS OR SCIENCE†	6
POLITICAL SCIENCE 204 or Sociology 404	3
SPEECH "300-400" ELECTIVE	3
HISTORY 202 or 301; 312 or 403 or 404; 400; 401;	
402; "300-400" ELECTIVES	30
ELECTIVES	24
	126

<sup>\*</sup>See page 48

Political Science	Credits
CORE CURRICULUM*	. 42
ECONOMICS 201; 202	6
FOREIGN LANGUAGE	12
HISTORY 101-102; 303; 402; 407	15
MATHEMATICS OR SCIENCE†	6
SPEECH "300-400" ELECTIVE	. 3
POLITICAL SCIENCE 202; 204; 301; 400; "300-400" ELECTIVES	24
ELECTIVES	18
	126

<sup>\*</sup>See page 48

<sup>†</sup> If Mathematics is used to satisfy the core curriculum requirement then Science must be selected or vice versa.

Social Studies	Credits
	Credits
CORE CURRICULUM*	42
ECONOMICS 201; 202	6
HISTORY 101-102; "300-400" ELECTIVES	12
MATHEMATICS OR SCIENCE†	6
POLITICAL SCIENCE 204: 304	6
SOCIOLOGY 301	3
SPEECH "300-400" ELECTIVE	3
SOCIAL STUDIES 400 and ELECTIVES‡	21
	21
ELECTIVES	27
	126

\*See page 48

#### **Mathematics and Physics Department**

Professor Joseph Lazzara, Department Chairman This department offers majors in Mathematics and Physics.

Mathematics CORE CURRICULUM* (Physics or Second Science—6credits) ELECTONIC DATA PROCESSING 203 FOREIGN LANGUAGE PHYSICS 101-102 MATHEMATICS 202; 203; 304; 307; 400; 401; 403; 404; 409; 412; "300-400" ELECTIVES ELECTIVES  *See page 48	Credits 42 3 6 8 45 22
Physics CORE CURRICULUM* (Mathematics 202; 203) CHEMISTRY 101-102 ELECTRONIC DATA PROCESSING 203 FRENCH, GERMAN OR RUSSIAN	Credits 43 8 3
MATHEMATICS 304; 401; 403; 404 PHYSICS 101-102; 201; 202; 303; 304; 306; 311‡; "300-400" ELECTIVES ELECTIVES  *See page 48 ‡ Physics 413; 414 may be taken in lieu of Physics 311.	12 34 20 126

#### **Philosophy Department**

Brother Pascal Kelly, O.S.F., Department Chairman This department offers one major in Philosophy.

<sup>†</sup> If Mathematics is used to satisfy the core curriculum requirement then Science must be selected or vice versa.

<sup>‡</sup> Economics, History, Political Science, and Sociology courses may be selected with the approval of the advisor.

Philosophy	Credits
CORE CURRICULUM*	42
FOREIGN LANGUAGE	12
HISTORY 101-102	6
MATHEMATICS OR SCIENCE†	<b>6</b> .
PHILOSOPHY 431; 432; 441; 442	12
PHILOSOPHY ELECTIVES	9
ELECTIVES	39
	126

<sup>\*</sup>See page 48

### **Psychology Department**

Professor Louis H. Primavera, Department Chairman This department offers one major in Psychology.

Psychology	Credits
CORE CURRICULUM*	42
MATHEMATICS OR SCIENCE†	6
PSYCHOLOGY 201; 300; 305	10
PSYCHOLOGY 450-453 SERIES	4
PSYCHOLOGY ELECTIVES	21
ELECTIVES	43
LLLOTIVLO	126

<sup>\*</sup>See page 48

#### **Religious Studies Department**

Professor John Sexton, Department Chairman In addition to courses in the study of various faiths, this department offers a certificate program through the Institute of Religious Studies for teachers of Religion.

#### SOCIOLOGY DEPARTMENT

Professor Edna O'Hern, Department Chairman

This department offers two different majors in Sociology.

#### Sociology Program A

For those students who wish to take the traditional liberal arts degree with a concentration in sociology, or who plan to pursue graduate study in sociology.

<sup>†</sup> If Mathematics is used to satisfy the core curriculum requirement then Science must be selected or vice versa.

	Credits
CORE CURRICULUM*	42
FOREIGN LANGUAGE	12
HISTORY 1	6
MATHEMATICS OR SCIENCE‡	6
POLITICAL SCIENCE	3
PSYCHOLOGY 201, 410	6
SOCIOLOGY 301; 311; 400; 404; 405; 406; "300-400" Electives	27
ELECTIVES	<u>†24</u>
*See page 48	126

† Electronic Data Processing 201 is recommended.

#### Sociology Program B—Urban Studies

For those students who wish an interdisciplinary program with emphasis on the contemporary urban situation; also for persons either now in, or planning to enter, the fields of community organization, law enforcement, probation and parole, or social work.

	Credits
CORE CURRICULUM*	42
ECONOMICS 308	3
POLITICAL SCIENCE 304; 306;	6
PSYCHOLOGY 201; 410; 461	9
SOCIOLOGY 301; 311; 400; 404; 406;	
"300-400" Electives and two of the	
following: 303B; 304B; 308	†30
ELECTIVES	<b>‡36</b>
	126

\*See page 48

† Sociology 304; 312; 402 are recommended.

#### SPEECH AND FINE ARTS DEPARTMENT

Professor Edward Setrakian, Department Chairman

This department offers courses in Speech, Theatre and Fine Arts.

# Preparation for Professional Study Pre-Medical, Pre-Dental, and Pre-Optometry

The requirement for admission to the study of dentistry, medicine, or optometry is the satisfactory completion of two years of study toward a Liberal Arts degree, including approved courses in English, Organic Chemistry, Physics, and Biology or Zoology.

Students should carefully note that the above are only minima and that professional schools will not consider applicants who have only minimal preparation. The trend for admission to these schools is toward the completion of a four-year undergraduate course. Students who contemplate studying medicine, dentistry, or optometry are strongly urged to complete the four-year college course and obtain the degree.

<sup>‡</sup> If Mathematics is used to satisfy the core curriculum requirement then Science must be selected or vice versa.

<sup>‡</sup> Electronic Data Processing 201, Spanish, Eco 201, 202, and Psy 403, 404 are recommended.

Any student planning to enter a professional college should consult the catalogue of the college of the student's choice during the freshman year.

A junior or senior who intends to apply to a professional school must submit to a personal interview at a meeting of the Committee on Recommendations to Professional Schools during the month of October or the month of February. Exact dates of such meetings will be posted. Recommendations may be obtained at these times only. Students should have taken the Medical Aptitude Examination several months prior to the time of application for recommendation.

#### Pre-Law

The best preparation for the study of law and for entrance into the legal profession is to follow the four-year program and obtain the baccalaureate degree. It is recommended that the student take courses in Economics, History, English Composition and Literature, and Sociology. Many law school deans also recommend that a student take one year of Accounting. A student would do well to develop the ability to concentrate, to study effectively, to read carefully and critically. The student should seek every opportunity for practice in writing and speaking clearly and precisely.

Some law schools will accept students who receive a Law Student's Qualifying Certification from New York State. This certificate is granted to those students who have successfully completed three years of the liberal arts program. No student will receive a degree from St. Francis under this plan. The Law School Admissions Test is required of all applicants by most law schools. This examination is administered administered by the Educational Testing Service, Princeton, New Jersey. It is suggested that students interested in studying law seek an interview with the Pre-Legal Advisor at the College concerning this examination.

# The Division of Continuing Education

#### **DEAN RICHARD DOYLE**

The Division of Continuing Education has been founded for the purpose of enabling every segment of the community to share in the St. Francis experience. Open to men and women, this multifaceted division of the college provides opportunities for human growth and enrichment through a wide spectrum of courses and programs. Within this Division, students may complete courses leading ultimately to the baccalaureate degree or, if they so choose, to the two-year or associate degree. In addition, certificates of completion are offered in the areas of computer science, library science, educational technology, health science, and a host of pre-professional, in-service and vocational areas.

The pre-collegiate section of the division assists in the upgrading and achievement of younger students through remedial programs geared to their special needs, while the Institute for Human Enrichment (the Adult Education branch of the Division) attempts to provide relevant offerings designed to meet all the needs and interests of the community.

The Division of Continuing Education, therefore, attempts to offer new and dynamic approaches to modern higher education. Its concern is with individual growth and development, and its dedication is to the task of seeking out and promulgating relevant answers to the problems of twentieth-century life.

A.A. LIBERAL ARTS	
(Associate Arts Degree in Liberal Arts)	Credits
CORE CURRICULUM*	30
ENGLISH ELECTIVE	3
FINE ARTS "400"	3
HISTORY 101-102	6
PSYCHOLOGY 201	3
SOCIOLOGY 304	3
ELECTIVES	15
*See page 48	63

#### A.A. PRE-TEACHING

# (Associate Arts Degree in Pre-Teaching Elementary-Secondary)

	Credits
CORE CURRICULUM* (Biology 101; 102)	30
EDUCATION 201; 302; 402	8
HISTORY 101-102	6
PSYCHOLOGY 201; 403 (Elementary Education) or	
404 (Secondary Education)	6
ELECTIVES	12
	62

The requirement for New York City's designation "Education Assistant" is fully met by completion of this program.

#### A.A.S. BUSINESS ADMINISTRATION

# (Associate Applied Science Degree in Business Administration)

	Credita	
CORE CURRICULUM* (MATHEMATICS 105; 301)	30	
ACCOUNTING 101-102	6	
BUSINESS LAW 201; 202	. 6	
BUSINESS MANAGEMENT 201; 202	6	
ELECTRONIC DATA PROCESSING 201	3	
ECONOMICS 201; 202	6	
ELECTIVES	7	
	64	

<sup>\*</sup>See page 48

# A.A.S. COMPUTER SCIENCE

# (Associate Applied Science Degree in Computer Science)

(Associate Applica deleties 2 og. com company	Credits
CORE CURRICULUM* (MATHEMATICS 105; 301)	30
ACCOUNTING 101-102	6
BUSINESS MANAGEMENT 201; 202	6
ELECTRONIC DATA PROCESSING	12
ECONOMICS 201; 202	6
ELECTIVES	3
	63

<sup>\*</sup> See page 48.

Note: The A.A. and A.A.S. programs make allowance for transfer to Baccalaureate programs (Four year Bachelor's Degree) if the student so desires.

<sup>\*</sup> See page 48.

# CURRICULUM IN CRIMINAL JUSTICE: ASSOCIATE IN APPLIED SCIENCE DEGREE:

REQUIRED COURSES:	Credits	
CORE CURRICULUM (See Catalog, page 48)	30	
PSYCHOLOGY 461 Psychological Aspects of Poverty	3	
SOCIOLOGY 301 Social Problems <sup>1</sup>	3	
POLITICAL SCIENCE 304 State and Local Government	3	
POLITICAL SCIENCE 306 Metropolitan Government		
& Politics <sup>1</sup>	3	
CRIMINAL JUSTICE 101 Introduction to Law		L.
Enforcement Science <sup>2</sup>	3	
CRIMINAL JUSTICE 102 Criminal Procedure <sup>2</sup>	3	
CRIMINAL JUSTICE 460 Criminal Justice	3	
CRIMINAL JUSTICE 463 Workshop in Corrections	3	
CRIMINAL JUSTICE 464 Community Relations		~~
in Law Enforcement	3.	747
Electives in Criminal Justice & Related		- 17 <sub>6</sub>
Fields (See attached)	6	- /4, N
ELECTIVES	6	
TOTAL CREDITS REQUIRED FOR ASSOCIATE DEGREE	63	A

<sup>1</sup> Required of In-Service students only.

#### **CERTIFICATES OF COMPLETION**

Computer Programming Educational Technology

Vocational Areas

#### IN-SERVICE TRAINING AND PROFESSIONAL ADVANCEMENT

Teacher Certification
Audio Visual and
Television Techniques

Management Seminars
Business Administration
and Accounting Workshops

#### **PRE-COLLEGIATE PROGRAMS**

Developmental Reading Remedial English English as a Second Language

Adult Education courses for human enrichment are also part of the Division's program.

<sup>&</sup>lt;sup>2</sup> Restricted to Pre-Service students only.

# **Courses of Instruction**

Each credit hour represents class participation one hour a week for one semester at a lecture, or two hours a week for one semester in a laboratory, unless otherwise indicated.

If a course conducted throughout the year is a credit unit, that fact is indicated by a dash. If each term is a separate unit, which may be taken and credited independently, that fact is indicated by a comma.

Courses that have insufficient registration will be cancelled.

#### **ACCOUNTING**

#### ACC 101-102 Elements of Accounting

6 credits

Three lectures per week

An introduction to the basic principles of accounting including the bookkeeping cycle, adjusting entries, and classified financial statements; basic partnership and corporate accounting problems; aspects of managerial accounting.

#### ACC 201, 202 Intermediate Accounting

6 credits

Three lectures per week

Principles and procedures involved in asset validation and valuation; liability verification; enterprise equity (mainly corporate), including formation and liquidation; special topics. Course proceeds primarily on a problem basis.

#### ACC 303-304 Cost Accounting

4 credits

Prerequisite: Accounting 101-102

Two lectures per week

Managerial use of cost data for routine planning and control, and for long-range planning; product costing using job order, process, and standard costs.

#### ACC 305-306 Auditing

4 credits

Prerequisite: Accounting 201, 202

Principles, standards, procedures, and techniques of auditing with emphasis on the analytical approach; electronic data processing and statistical sampling; types of audit examinations with appropriate reports, evaluation of assets, and substantiation of liabilities; an auditing practice case to be completed.

#### ACC 400 Accounting Internship Program

1 credit

Full-time professional staff work for limited period in public and private accounting; complete analytical written report of experience. Admission to course by permission of department head.

#### ACC 401-402 Advanced Accounting Problems

4 credits

Prerequisite: Accounting 303-304 and 305-306

Consideration of such topics as home office and branch accounting, consolidations, estates and trusts, foreign branches and governmental accounting; analysis of selected problems from recent CPA examinations.

#### **ACC 404 Advanced Accounting Theory**

2 credits

Prerequisite: Accounting 401

Analysis of concepts of income, revenues and expenses, price level changes, assets and liabilities, ownership equities; readings in current literature.

#### ACC 405-406 Taxation

4 credits

Prerequisite: Accounting 101-102

A study of the basic principles of federal income taxation as applied to individuals, partnerships, and corporations; Social Security, Gift, and Estate taxes.

#### ACC 407 Accounting Analysis

2 credits

Analysis of balance sheets and operating statements; trend analysis, emphasizing statistical and mathematical approach; concepts of operations analysis.

#### **BIOLOGY**

#### BIO 003-004 Anatomy and Physiology

4 credits

Two lectures, one recitation and three lab. hours.

An analysis of the anatomy and physiology of man at the cellular level as well as the body as a whole. Laboratory experiments and dissections of representative forms to obtain these objectives will be performed. This course open only to those students majoring in physical and health education.

#### **BIO 101-102** Introduction to Biology

6 credits

Two lectures, one recitation per week.

An introduction to the science of biology. Selected topics will include the chemical nature of life processes, cellular basis of behavior, the principles of development, heredity and evolution and the relation of the organism to the environment. The course is designed for non-science majors.

### BIO 103-104 General Biology

8 credits

Two lectures, one recitation and three lab, hours per week.

An introductory course in general principles and modes of scientific thought, illustrated by selected examples from the plant and animal sciences.

### **BIO 201** Embryology

4 credits

Prerequisite: Biology 103-104

Two lectures, one recitation and three lab. hours per week.

A descriptive study of the development of amphioxus, frog, chick and mammal in lecture and laboratory; developmental genetics; the problems of development; an introduction to experimental embryology.

### **BIO 202** Comparative Anatomy

4 credits

Prerequisite: Biology 103-104

Two lectures, one recitation and three lab. hours per week.

A comparative lecture-and-laboratory study of the macroscopic anatomy of typical representatives of the classes of vertebrates.

### BIO 203 Invertebrate Zoology

4 credits

Prerequisite: Biology 103-104

Two lectures, one recitation and three lab. hours per week.

Major invertebrate phyla with emphasis on taxonomy, structure, physiology, and ecology; laboratory dissection of representative types.

### BIO 204 Ecology

4 credits

Prerequisite: Biology 101, 102 or 103-104

Two lectures, one recitation and three lab. hours per week.

An introduction to ecological principles and their application to the environment; field trips to representative ecosystems and environmental problem areas.

#### **BIO 205** Bacteriology

4 credits

Prerequisites: Bio. 004 or 102 and Chem. 004 or 102.

Two lectures, one recitation and three lab. hours.

An introduction in the morphology and physiology of the more common pathogenic and nonpathogenic bacteria. The laboratory work includes the preparation of media, cultural and biochemical techniques and the identification of unknowns.

#### **BIO 301 Microbiology**

4 credits

Prerequisite: Biology 103-104

Two lectures, one recitation and three lab. hours per week.

A survey of the principal groups of microorganisms (bacteria, fungi, algae, protozoa, viruses, and rickettsiae) with emphasis on taxonomy, morphology, physiology and their industrial and medical application.

#### BIO 302 Botany

4 credits

Prerequisite: Biology 103-104

Two lectures, one recitation and three lab. hours per week.

A survey of the principal groups of plants from the standpoint of their structure and development, with intensive studies on the morphology and physiology of the Angiospermae.

#### **BIO 303** Genetics

4 credits

Prerequisite: Biology 103-104

Two lectures, one recitation and three lab. hours per week.

An introduction to variation and heredity; the theory of the gene as developed in classical genetics, biochemical and molecular genetics; cytogenetics; the genetics of populations; cytoplasmic inheritance, laboratory problems and experiments in drosophila, bacterial, and viral genetics.

#### BIO 304 Biological Techniques (Instrumentation)

4 credits

Prerequisite: Departmental permission.

One hour lecture, one hour conference and four hour lab.

The theory and practical application of various analytical procedures and the solution of biological problems by instrumentation; practical study of centrifuge, ph meter, analytical balance, dialysis techniques, counter-current distribution, chromatography (paper, column, thinlayer, and gas liquid), spectroscopy (UV-VIS and IR); the use of fluorescent techniques in microbial identification.

#### **BIO 306** Parasitology

4 credits

Prerequisite: Biology 103-104

Two lectures and four hours lab per week

A study of parasitic protozoa, platyhelminthes, nemathelminthes and arthropoda, stressing their relation to man and their control.

#### **BIO 309** General Physiology

4 credits

Prerequisite: Biology 103-104

Two lectures, one recitation and three lab, hours per week.

A survey of the chemical and physical phenomena involved in cellular processes; the biochemical and biophysical nature of irritability and contraction.

### **BIO 401** Histology and Microtechnique

4 credits

Prerequisite: Biology 202

Two lectures, one recitation and three lab. hours per week.

A study of the microscopic anatomy of normal animal tissues and organs; the methods of preparing these materials for microscopic study.

### BIO 402 Vertebrate Physiology

4 credits

Prerequisite: Biology 103-104

Two lectures, one recitation and three lab. hours per week.

The basic principles involved in the physiology of vertebrate systems; the physico-chemical aspects and homeostatic mechanisms of the functional systems.

**BIO 403** Endocrinology

4 credits

Prerequisite: Biology 202 and 401

Three lectures per week

A survey of the glands of internal secretion; each of the endocrine glands will be considered according to structure, synthesis of hormones, regulation of function, action of hormones and the interrelationship with other components of the regulatory system.

#### BIO 405 Mycology

3 credits

Prerequisite: Biology 301 and 302

Two lectures, one recitation and three lab. hours per week.

General characteristics, life cycles, and life processes of higher and lower fungi, with special emphasis on antibiotic-producing soil fungi, and on identification of yeasts and molds pathogenic for plants, domestic animals, and man.

### BIO 501, 502 Biological Research

2 credits

Prerequisite: Department approval

Independent research under faculty guidance. A required written report of the work may be considered part of the comprehensive examination required of all biology majors.

#### **BUSINESS LAW**

#### BL 201 Business Law I

3 credits

An introduction to law in general, the Courts, and the legal process together with the law of contracts, agency, and partnership.

#### BL 202 Business Law II

3 credits

Prerequisite: Business Law 201

The law of partnership corporations, commercial paper and sales.

#### BL 403 Business Law III

3 credits

Prerequisite: Business Law 201

The law of property, wills, estates, trusts, insurance, secured transactions, bankruptcy, accountants' legal responsibility and government regulations.

#### **BUSINESS MANAGEMENT**

#### BM 201 Industrial Organization and Management

3 credits

Philosophies and methodology underlying the successful operation of a business enterprise including study, of the interaction of the use of labor, modern technology, and marketing knowledge; emphasis upon the conceptual aspects of problem solving and decision making utilizing twentieth-century techniques such as the computer, game theory, role playing, etc. The multi-national company and its particular problems will be studied.

## BM 202 Marketing

3 credits

Policies concerning market research, product planning, brands, distribution channels, pricing, selling, sales promotion, and advertising; case problems. Marketing in foreign countries and the peculiar aspects of local culture and customs are to be evaluated.

## **BM 301** Management Theory and Practice

3 credits

Prerequisite: Business Management 201

Examination of organizational structure for similarities and differences in operation; the effective utilization of personnel, coordination of activities, and the functional aspects of enterprises within the American economic system; factors creating successful corporate goals, including motivation of personnel, establishing effective controls, and the social responsibilities of the organization.

# **BM 302** Marketing Management

3 credits

Prerequisite: Business Management 202

Factors affecting demand and methods of satisfying it; the structure of the market; marketing methods and problems of various agencies; competitive practices; the management of the selling activities of a business; distribution policies, pricing, and the planning of marketing operations; managerial aspects stressed.

## **BM 303** Corporate Finance

3 credits

Prerequisite: Open only to juniors and seniors

Examine and analyze aspects of financing corporate entities in the functioning of the economy; equity financing, capital structure; bond flotation, mergers and consolidations, holding companies, security underwriting and marketing rights, warrants, and options.

## **BM 307** Advertising and Sales Promotion

3 credits

Prerequisite: Business Management 202 and 302

The role of advertising in the economy; client-agency relationships, media selection and utilization, importance of selective copy; the objectives of promotion and public relations and the methods of achieving success in them.

#### BM 308 Quantitative Methods in Business

3 credits

Undertakes the employment of mathematical and statistical tools in the solutions of business decision problems. Techniques of linear programming, inventory theory, queing theory, decision theory and computer simulation discussed. (Replaces Economic and Business Statistics)

#### BM 310 Behavioral Science in Management

3 credits

Examines the business environment from the point of view of the behavioral sciences; the study of fundamental concepts of psychology, sociology, and cultural anthropology for insights into group and individual behavior in the business enterprise; leadership roles, personality dynamics, interaction and motivation of groups and individuals. Differences based upon stem cultures will be evaluated.

# BM 314 Credit Management

3 credits

The principles and problems of modern credit management with emphasis on the construction and administration of successful programs for the 1970's.

#### **BM 400 Business Policies**

3 credits

Prerequisite: Open only to graduating seniors

The use of previous studies in the areas of management science, finance, personnel, marketing and accounting, and of integrated case studies; analysis of specific problems within a company leading to recommended alternative courses of action; systems or integrated approach to analysis is used, with the student assuming the role of corporate executive in leading group decision-making meetings.

## BM 403 Managerial Finance

3 credits

The specific purpose of the course is to give the non-financially oriented student some awareness of the benefits of sound financial management. Among the topics analyzed are: Alternative Strategy Selection, Opportunity Costs, Ratio Analysis, Breakeven Analysis, Operating and Financial Leverage and Mergers and Acquisitions.

# BM 404 Personnel Management

3 credits

Prerequisite: Open only to upper juniors and seniors

A study of current personnel administration in various types of organizations; recruitment, testing, placement, motivation, and training of individuals; modern problems of sensitivity training, the effect of cultural differences, governmental assistance and regulations; basic aspects of effective programs of wage administration, employee benefits, and industrial judicial practices (grievances and arbitration).

#### BM 407 Market Research

3 credits

Prerequisite: Business Management 202 and 302

An inter-disciplinary approach to the study of recognizing and isolating marketing problems, while demonstrating the use of research as a management tool in guiding executive thinking and decision making; cases and problems employed with emphasis on quantitative and analytical techniques.

#### **BM 408** Security Analysis

3 credits

Prerequisite: Business Management 303

Quantitative and qualitative methods of analyzing industrial securities, with greatest emphasis on common stock; principles underlying the selection and management of both individual and institutional portfolios; market timing and technical strategies.

## BM 410A, B, C,D, Seminars in Business Problems

3 credits

Seminars in specific types of business enterprises for Seniors who are engaged in the field. Problem and case discussion techniques to be utilized. Students encouraged to develop own materials from work situations

(May be taken as a substitute for BM 400 with permission of Head of Department.)

410A Banking

410B Stock Brokerage

410C Service Industries and Utilities

410D Insurance

#### **CHEMISTRY**

# CHE 003-004 Chemistry and Life

8 credits

For students not intending to major in Science.

Two lecture hours, one conference, and three lab hours per week.

Introduction to basic principles of Chemistry. Emphasis is on application of these principles to living systems and their impact on present day living.

# CHE 101-102 General Chemistry

8 credits

Two lectures, one conference, and three lab hours per week

For the science major. Emphasis on quantitative aspects of chemistry at a more specialized level than in Chemistry 003-004

## CHE 201 Analytical Chemistry

4 credits

Prerequisite: Chemistry 102

Two lectures, one conference, and three lab hours per week

Quantitative study of gravimetric and volumetric analysis; solubility product, acid-base, oxidation-reduction and complex-formation phenomena considered with emphasis upon precision, resourcefulness, and chemical calculations.

# CHE 301, 302 Organic Chemistry

10 credits

Prerequisite: Chemistry 102

Three lectures, one conference, and four lab hours per week

Aromatic and aliphatic compounds; reaction mechanisms based on electronic theory; preparation of representative compounds and quantitative analysis.

#### CHE 303 Inorganic Chemistry

3 credits

Prerequisite: Departmental Approval

Three lecture hours per week

The study of bonding, structure, and reactions of inorganic compounds based on modern physical chemical concepts; coordination compounds and organometallic compounds.

# CHE 304 Biochemistry

4 credits

Prerequisite: Chemistry 301

Two lectures and four lab hours per week

Physio-chemical approach; amino acids, proteins, carbohydrates, lipids, enzymes, intermediate metabolism; modern techniques for isolation, identification, and determination of compounds of biochemical significance.

# CHE 401-402 Physical Chemistry

8 credits

Prerequisite: Departmental approval

Three lectures and four lab hours per week

Atomic, molecular, and crystal structure; thermodynamics; solution properties; chemical kinetics; electrochemistry.

# CHE 403 Advanced Physical Chemistry

3 credits

Prerequisite: Departmental Approval

Three lecture hours per week

An advanced treatment of some of the topics introduced in Chemistry 401 and 402; quantum mechanics and statistical mechanics emphasized; application of these topics to thermodynamics, chemical bonding, and kinetics.

## CHE 404 Instrumental Methods of Analysis

4 credits

Prerequisite: Departmental approval
Two lectures and five lab hours per week

Theory and laboratory work in spectroscopy, adsorption, and emission; electroanalytical chemistry and chromatography as they apply to analytical chemistry.

#### CHE 405 Advanced Organic Chemistry

3 credits

Prerequisite: Departmental Approval

Three lecture hours per week

Physical organic chemistry; emphasis on structure and reaction mechanisms; free radical chemistry.

#### CHE 501, 502 Chemical Research

2 credits

Prerequisite: Departmental approval

Independent research under faculty guidance. A required written report of the work may be considered part of the comprehensive examination required of all chemistry majors.

#### **CRIMINAL JUSTICE**

#### CJ 101 Introduction to Law Enforcement Science

3 credits

Development of the modern American Police system, the principles of administration and management in their application to Law Enforcement; a study of the Police organizational structure. Jurisdiction of local, state and federal law enforcement agencies is covered along with introductory material to current police problems. (Pre-service students only.)

#### CJ 102 Criminal Procedure

3 credits

The criminal process. Modern legal problems associated with the investigation of crime, the acquisition of evidence, commencement of a criminal procedure. Included herein is the scientific fact finding approaches to the development of factual data, inductive and deductive reasoning. The development and practice of investigation; classification of various types of crime. (Pre-Service students only.)

#### CJ 460 Criminal Justice

3 credits

An advanced in-depth view of the entire area of criminal justice. Includes proper procedures for prosecution and defense of charges, sentencing and appeal. Principal concern is with currently acceptable procedures and current efforts for reform.

## CJ 463 Workshop in Corrections

3 credits

The place of Probation, Parole & Pardons in the Administration of Justice system; the contemporary use of probation and parole; role of the court in granting and terminating probation; release from Correctional Institution; the legal rights of prisoners; rehabilitation programs within prisons; modern developments in Corrections procedures.

## CJ 464 Community Relations in Law Enforcement

3 credit

Survey of the numerous and complex factors involved in the area of human relations and its effects on policing and police management. Examination made of prejudice and discrimination. Confrontation of community rights and rights of police officer discussed. Image of police officer and department discussed in light of current events. Means of improving relations outlined.

#### **ELECTIVES**

#### CJ 461 Problems of Urban Law Enforcement

4 credits

The role of Law Enforcement Officer and Agency in the city of the 70's; the limitations and the extent of community cooperation necessary for proper law enforcement.

#### CJ 462 Workshop in Juvenile Delinquency:

3 credits

This course designed for Law Enforcement Officers and others interested in urban problems. The course deals with causes and remedies for delinquency. Methods of apprehension, care and commitment are discussed. Psychiatric approaches outlined. Delinquency treated as a national problem. The role of the schools — the home — discussed and treated. Confrontation between school — community treated with role of Law Enforcement discussed.

#### CJ 465 Courts Management

3 credits

For Courts Officers. Involves training in proper reading of documents, setting up procedures, proper handling of records and documents received. Structure of Courts system, management function of various divisions.

# CJ 466 Workshop In Imprisonment

3 credits

(Prerequisites: Psy 461 Psychological Aspects of Poverty & CJ 463 - corrections)

Organization and functions of prison system; role of the Corrections Officer in the rehabilitative process. Modern thought concerning prison reform. Recent prison events analyzed and discussed. Character of the modern prisoner. Prisoners' rights — Officers rights and duties.

# CJ 467 Development of American Criminal Justice 3 cre

Survey of the History and background of the American Justice system, its origins and development. The theory of law; development of the courts; emergence of a continuum of decision involving individual rights and freedoms; current decisions involving socio — political, civil rights matters.

#### **RELATED COURSES**

Polit. Sci	402 American Constitutional Law	3 credits
Polit. Sci	405 Introduction to American Judicial Process	3 credits
Psy. 461	Psychological Aspects of Poverty	3 credits
Soc. 303	a Criminology	3 credits
303	b Sociology of Corrections	3 credits

#### **ECONOMICS**

# ECO 201 Principles of Economics I

3 credits

Macro-economics; the foundation of economic analysis; national income, employment and economic growth; aggregate demand, saving and investment; economic fluctuations; monetary and fiscal policy; underdeveloped countries; comparative economic systems.

#### ECO 202 Principles of Economics II

3 credits

Micro-economics; markets, the price system, and the allocation of resources; competition, monopoly, monopolistic competition, and oligopoly; government and business; the distribution of income.

#### ECO 302 Economic Development of the United States 3 credits

American economic life, growth of business concentration; problems of agriculture; public utility and railroad regulation; labor organization and development; money, banking, and fiscal problems; capital formation and the distribution of national income; the depression and New Deal; the United States in the international economy.

# ECO 306 Money and Banking

3 credits

Money and credit; commercial banking; central banking; monetary theory and monetary and fiscal policy; other banking and credit institutions; international banking.

#### ECO 308 Urban Economics

3 credits

An examination of the economic foundations of contemporary urban problems; location of central places; the urban hierarchy; the urban economic base; urban land use maps and patterns; problems of housing, urban renewal, mass transportation, industrial relocation, population shifts, ghetto unemployment, inflation, pollution and poverty as economic problems requiring economic solutions.

#### ECO 309 Labor Economics

3 credits

An examination of labor concepts, markets, and problems; the development of the union movement and its impact upon society; modern labor legislation, the development of collective bargaining, and full employment concepts; unemployment, insecurity, and the operation of the labor market; government in labor problems; theories of wages and employment.

#### ECO 310 Economic Foundations of Latin America

3 credits

The economic structures of Latin America, problems of national and regional underdevelopment, the U.S. role and the syndrome reaction of nationalization, agrarian reform as a basic solution to socio-economic tensions and the military role in national economic planning.

## ECO 311 Economic Geography

3 credits

The natural environment in economic life; theories of location and the evolution of patterns of agricultural and industrial distribution; theories of geographical determinants of human behavior; sources and application of energy; the roles of selected commodities.

#### ECO 312 Public Finance

2 orodite

The major types of revenue and expenditure problems of local, state, and national government; economic and social aspects of expenditure and underlying theories; revenues, tax shifting and incidence, public debt, the budget, and their relation to full employment.

#### **ECO 313 Comparative Economic Systems**

3 credits

Noncapitalist-oriented economies; capitalist-oriented economies; comparative economic statistics; consumption and investment decision-making; extracting agricultural produce; levels of living; labor under contrasting economic systems; over-all price movements and price policies; managerial decision-making; public finance and taxation; the uses of international trade; the roads to affluence.

#### ECO 314 Mathematical Economics

3 credits

Mathematical analysis for economists; models in linear programming and econometrics; the application of statistical methods to the solution of economic problems in macro and microeconomics.

# ECO 316 Workshop In Personal Finance

3 credits

A lecture-discussion course intended to familiarize the student with the many aspects of his personal finance situation. Personal budgeting, investments, credit usage, mortgages, insurance protection, and related topics are covered.

#### **ECO 400** Seminar in Economics

3 credits

Principles of research; bibliography; the application of statistical methods to a specific problem for individual research; recent developments in applied economics.

#### **ECO 403** International Economics

3 credits

Principles, practices, and problems of world trade; equilibrating the balance of payments; the transfer problem; international propagation of income changes; the terms of trade between manufacturing and primary countries; the theory of comparative costs; protection and free trade; world trade organizations.

## ECO 406 History of Economic Thought

3 credits

A survey of economic thought principally from the seventeenth century to the present day; mercantilism; physiocracy and the emergence of a science of economics; the Classical School; the rise of Socialist protest; marginalism and the neo-classical synthesis; Keynes and post-Keynesian economics.

#### **ECO 408 Economic Analysis: Macroeconomics**

cred

A theoretical and empirical representation of the operation of the aggregate economy; the development of elementary and advanced models of the economy; and examination of empirical studies designed to test various hypotheses; economic policy suggested by aggregate economic models.

#### **ECO 409 Economic Analysis: Microeconomics**

3 credits

The law of supply and demand; costs and production; the law of markets, profits, and losses; the classical theory of value, distribution, and employment; the modern theory of value and distribution under pure and restricted competition; utility and preference fields as basis of demand theory; social costs and welfare economics.

## **ECO. 500 Independent Studies**

3 credite

Individual research and study with the approval of the Department of Economics.

#### **EDUCATION**

Information concerning the Teacher Training programs will be found on page 51 of this catalogue.

**ED 201 Foundations of Education: History and Philosophy**The development of the various philosophies of education through a survey of ancient, medieval and modern education; the ends and means in education; educational theory in the United States today.

ED 202 Introduction to the Education of Children and Youth 2 credits A study of individual differences among children; educationally disadvantaged children; elementary and secondary classroom techniques; basic school problems.

# ED 301 Methods, Problems, and Principles in Secondary Education 2 credits

Methods and problems in junior and senior high schools and their relationship to basic principles; consideration of such topics as problems of transition in junior high school, secondary school organization, classroom management, lesson plans, problem-project method, evaluation, discipline, visual aids.

The application of Educational Psychology to the art of teaching and the science of learning with emphasis on growth and development, environmental influences, understanding of the individual pupils, nature and conditions of learning, transfer of past experiences, guiding pupils for personal adjustment and mental health.

**ED 312 Foundations of Curriculum in Elementary Education 2 credits** Basic conceptual treatment of child growth and development; curriculum and methods as they apply to the elementary school and early education.

ED 401 Special Methods in Secondary School Teaching 2 credits Prerequisite; Education 301, 302

The following courses are offered under the supervision of the Education Department by faculty members of the various fields involved. Tutoring of students is a required part of the course.

- **401c English.** Teaching various forms of writing and literature at secondary level; the general aims and purpose of these forms; audiovisual aids, projects, library materials, and bibliographical references for the adolescent; the impact of mass media of communication on the secondary school curriculum studied and demonstrated by student participation; state syllabus used as a guide for demonstration lessons by students and instructor.
- **401d Modern Languages.** Aims, methods, and objectives of present-day modern language teaching in high schools and junior high schools; practical exercises; visits to local schools.
- **401e Mathematics.** The teaching of mathematics in grades 7 through 12; procedures, techniques, and materials; opportunities for student presentations and discussion of strengths and weaknesses.
- **401f Social Studies.** Specific methods and techniques useful to the Social Studies teacher on the secondary level; teaching aids, use of library, current events, and bibliographical references; subject materials for the exceptional and the average student; ;the syllabi and aims in the various subject areas; model lessons; student participation in lesson planning and demonstration classes required.

**401g Reading and Spelling.** Special methods, aims and objectives in teaching reading and spelling on the secondary level; remedial and developmental techniques required for teachers on this level; use of Developmental Reading Laboratory and audio-visual aids; literature for adolescence in bibliographical and curriculum application; basic corrective techniques and testing in spelling and reading.

**401h Science.** A study of basic principles, classroom practices, and curriculum trends in secondary school science courses; experiences helpful to the prospective teacher in evaluating, selecting, preparing materials for teaching science; visual aids, laboratory methods for individual and group experiments, and the organization of materials for classroom use.

**4011 Religion.** Classroom management; general methods; positive approach to God; methods of teaching Sacred Scripture; adolescent psychology; group guidance; techniques of oral presentation.

## 401] Accounting

Prerequisite: Accounting 101-102

The teaching of accounting by modern methods in accordance with present-day concepts in business education; general principles and techniques of teaching a vocational business subject; skill development and the correct methods and techniques that should be used in accounting procedures.

#### 401k Office Practice

The techniques and principles that are a necessary adjunct to the teaching of office practice and other business subjects; various plans of organization, methods and procedures for filing, indexing, systems, and controls, and the proper use of general office equipment. Students admitted only with the permission of the instructor or the chairman of the Department.

# **ED 402 Tests and Measurements**

3 credits

Designed for future teachers. The administration of the various tests used in a school situation; demonstrations of intelligence tests; the improvement of classroom tests; the use of test results by the administrator, teacher, and guidance counselor; the planning of classroom tests;—item types, writing effective test items, and the mechanical features of classroom tests.

ED 404 Observation and Supervised Practice Teaching 6 credits
During the Senior Year students in the Teacher training program will
spend a minimum of one term of supervised instructional experience
in an approved Secondary or Elementary School. Aside from the
Normal School Experience the student will be expected to attend
individual and group conferences with The College Supervisor and
cooperating teacher. Students must be approved by the chairman of
the Education Department.

## ED 411 Special Methods in Elementary School Teaching

The following courses are offered under the supervision of the Education Department by faculty members of the various fields involved.

#### 411a Language Arts and Reading

3 credits

Curriculum materials, methods of teaching reading, communications skills; development of language arts; the place of literature in the elementary curriculum.

#### 411b Mathematics and Science

3 credits

The principles and practices employed in teaching mathematics and science in elementary schools.

#### 411c Literature

3 credits

Children's literature and the techniques used in presenting it to children at different age levels; the use of audio-visual aids; illustrations of children's books.

#### 411d Social Studies

3 credits

The instructional resources, methods, and materials of a sound social studies presentation in elementary and early adolescent classes; the history, culture, and sociology of various minority groups.

# **ED 431 Diagnosis and Treatment of Reading Disabilities 3 credits**Prerequisite ED 411a or 401g

A study of formal and informal methods of diagnosis; special in-class room precedures; analysis of the services rendered by clinics and other professional groups.

#### **ED 434 School and Community**

3 credit

The school's role in relation to the community; "Inner City" education; the use of community resources in establishing good human relations and adjusting to the cultural and socio-economic changes of our time.

#### **ED 439 Basic Principles of Guidance**

3 credits

The relation of basic concepts to in-school problems; the reference materials, resources, and procedures of the guidance counsellor in the secondary school.

# PSY 404 Developmental Psychology II

3 credits

(see course listing under Psychology)

It is strongly recommended that prospective teachers take Psychology 403 and 404.

# ED 501a Methods of Teaching Health Education in the Elementary and Secondary Schools:

2 credite

An analytical study of texts, materials and teaching methods suitable for presentation in Elementary and Secondary Health Education programs. This course studies techniques of motivation and means by which meaningful health instruction can be integrated and correlated into the school program.

# ED 501b Special Methods of Teaching Physical Education in Schools

2 credits

Methods of teaching Physical Education in Elementary and Secondary schools; planned observation at both levels; preparation of lesson plans, selection and use of equipment and instructional aids stressed.

# **ELECTRONIC DATA PROCESSING**

EDP 201 Introduction to Electronic Data Processing
The fundamental understanding of computers and the methods employed in implementing computer systems.

## **EDP 202 Information Systems**

3 credits

Prerequisite: Electronic Data Processing 201 and 207

The classification, characteristics, and methodology of computer-based information systems; the theory and techniques of systems analysis.

#### EDP 203 Fortran

4 credits

Required by Science Majors

The functions and capabilities of a digital computer and the FORTRAN programming language.

# **EDP 204 Advanced Computer Programming**

3 credits

Prerequisite: Electronic Data Processing 203 or 205

The functions and capabilities of computing systems; machine-oriented languages; the problems of storing and retrieving information from data files as basic problems in computer-based information systems.

# **EDP 205 Business Computer Programming**

3 credits

Prerequisite: Electronic Data Processing 201

A systematic approach to the task of implementing a computer solution to the needs of information reporting within business; the potentials of problem-oriented languages; the Report Program Generator (RPG) language; actual development of programs on the College's equipment.

# EDP 206 Introduction to Operations Research 3 credits Perequisite: Mathematics 105 and Electronic Data Processing 201 or

The application of quantitative methods in the management process; introduction to techniques for evaluating and choosing among alternative courses of action confronting a decision maker through the use of mathematical and logical models; computer-assisted solutions to sample problems.

# EDP 207 Basic Systems and Procedures

3 credits

The fundamentals of systems design in the study of information flow; forms management and record retention; the feasibility study and office work measurement.

# **EDP 208 Basic Cobol Programming**

4 credits

Prerequisite EDP 201

Presentation of the Cobol Programming Language; programming drills, exercises, and case studies.

#### **ENGLISH**

# ENG 120 Writing about Literature I

3 credits

An introduction to the short story and novel. Offered every Semester.

### ENG 121 Writing about Literature ii

3 credits

An introduction to poetry. Offered every Semester.

# ENG 122 Writing about Literature III

3 credits

(Formerly Eng 407a)

An introduction to drama. Offered every semester.

#### **ENG 299 Methods of Literary Research**

3 credits

Readings, discussions, and compositions centered on techniques in English literary history: problems in biography, authenticity, source study, chronology, interpretation, and the history of ideas. Offered every semester.

# **ENG X: English Option**

This special course is open only to those students who received an "A" in English 299 in the semester immediately preceding. See English Department Chairman for details.

## ENG 301 Chaucer

3 credits

A study, in the Middle English text, of "The Canterbury Tales, Troilus and Criseyde," and selected minor works; and of the political, social, and cultural backgrounds of the fourteenth century. Offered Fall, 1972.

## **ENG 302 Medieval English Literature**

3 credits

A study in modernized texts of the principal English works from the twelfth through the fifteenth centuries; and of some non-English works, such as the Arthurian material, which have an important bearing on English literature.

## ENG 303 Drama in England to 1700 (Exclusive of Shakespeare)

3 cradite

A study of the origins of drama in England: mysteries, miracles, interludes, and farces; close reading of representative plays from the Elizabethan, Jacobean, and Caroline drama; the masque; the heroic play; bourgeois tragedy and Restoration comedy. Theatrical backgrounds from contemporary sources on the staging, acting, costume, and decor of the plays read. Offered Fall, 1973.

# ENG 304 Eighteenth-Century English Literature 3 credits

A survey of the major literary figures of the Enlightenment — Dryden, Pope, Swift, Johnson—with particular attention given to works that are significant and representative; added study of important individual contributions to poetry, the novel, essay, and drama. Offered Spring, 1973.

#### ENG 306 The Victorian Period: 1832-1900

3 credits

A survey of the poetry and prose of the period, with particular emphasis on the works of Tennyson, Browning, Arnold, the Pre-Raphaelites, Newman, Carlyle, and Ruskin, as well as some representative novelists. Offered Fall, 1972.

**ENG 307 Sixteenth-Century English Literature** 

3 credits

A survey of the non-dramatic literature of the period, tracing the roots and development of the Renaissance and Humanism in England; special emphasis on Wyatt and Surrey, Spenser, Sidney, and More. Offered Fall, 1973.

**ENG 308 Seventeenth-Century English Literature: 1600-1660 3 credits** A study of the non-dramatic literature of the period, with special emphasis on the poems of Donne and Jonson and their followers; an examination of the prose works of Bacon, Browne, Burton, among others, as a reflection of the intellectual climate of the age.

**ENG 401J, 401k, 401m** American Literature: 1800-Present 9 credits Analysis of individual works of American literature and discussions of the intellectual, social, and political environments in which they were written.

**401j:** (1800-1860) Major emphasis on Cooper, Poe, Hawthorne, Emerson, Thoreau, Melville. Offered Fall, 1972.

**401k: (1860-1920)** Major emphasis on Whitman, Dickinson, Twain, James; realism, naturalism, and the new poetry. Offered Spring, 1973.

**401m: (1920-Present)** Major emphasis on Hemingway, Faulkner, Salinger, and Ellison.

## ENG 402x, 402y Skakespeare

6 credits

Representative tragedies, comedies, and histories; Shakespeare's non-dramatic poetry; Elizabethan theatrical backgrounds.

402x: The tragedies. Offered every Spring.

**402y: The comedies, histories, non-dramatic poetry.** Offered every Fall.

#### **ENG 403** The Romantic Movement

3 credits

A survey of the poetry and prose of the period, with major emphasis on the poetry of Wordsworth, Coleridge, Byron, Shelley, and Keats; briefer study of the "Pre-Romantic" poets, the novelists Scott and Austen, and the essayists Lamb and Hazlitt. Offered Fall, 1973.

#### ENG 404 Milton

3 credits

A comprehensive study of Milton's poetic works; readings of selected prose works in order to illustrate the social, cultural, and religious conflicts of Milton's age. Offered Spring, 1973.

#### **ENG 405 Modern British Literature**

3 credits

A formal introduction to the literature of the period from 1890 to the present; major emphasis placed on the works of Yeats, Eliot, Conrad, Joyce, Lawrence; further perspective provided by the study of a few representative continental writers. Offered Fall, 1972.

#### ENG 450 Seminar

Limited to seniors taking degrees in English; others admitted only with permission of the instructor and the chairman of the department..

Fall, 1972. King Arthur. Prof. Bush; Sex and Violence as Symbols in the plays of Tennessee Williams. Prof. Wall.
Spring, 1973. Gothic Fiction of the South. Br. Austin Gill, O.S.F.; T.S. Eliot. Prof. Bush.

# **ENG 500 Independent Studies**

3 credits

Interested students should consult with Department Chairman concerning pre-existing conditions required for this course.

#### **FINE ARTS**

#### FA 401 Music of the Western World

3 credits

A survey of the important music and musicians of the Western World from the beginning of the Christian Era to the present. Recorded illustrations and lectures.

#### FA 402 Orientation in Art

3 credits

A simple approach to the understanding of the plastic arts on a conceptual basis, including within its scope historical and aesthetic materials.

#### **FOREIGN LANGUAGES**

#### **Elementary Level**

6 credits

FRE 101-102 (French); GER 101-102 (German); ITA 101-102 (Italian) POR 101-102 (Portuguese) SPA 101-102 (Spanish)

The attainment of audio-lingual skills. For students who have not previously studied the language selected or who have studied it for one year only in high school.

POR 101-102 (Portuguese) will be offered in 1972-73

#### Intermediate Level

6 credits

FRE 103-104 (French); GER 103-104 (German); ITA 103-104 (Italian) SPA 103-104 (Spanish)

Prerequisite: 102 or two years of the language in high school. The control of elementary audio-lingual skills, and their further development; emphasis on developing reading skills.

# **Advanced Level**

6 credits

FRE 105-106 (French); Ger 105-106 (German); SPA 105-106 (Spanish) Prerequisite: 104 or three years of the language in high school conversation and reading; emphasis on developing writing skills.

# Masterpieces

6 credits

FRE 201-202 (French); GER 201-202 (German); SPA 201-202 (Spanish)

Prerequisite: 106

Reading and discussion of major works from the medieval period to the 20th century; composition.

# FRE 301 Seventeenth-Century Literature

3 credits

Prerequisite: French 202

A study of the social and philosophical movements, and discussion of the significant authors of this period as examples of the spirit of their age.

#### FRE 302 Advanced Phonetics

3 credits

Prerequisite: French 202

A systematic study of articulation and intonation intended for teachers.

#### FRE 303 Advanced Conversation

3 credits

Prerequisite: French 202

A course designed to develop the technique and vocabulary of discussion as a supplement to expression in the areas of experience.

# FRE 304 Nineteenth-Century Literature

3 credits

Prerequisite: French 202

A study of the principal authors and literary movements of this period, exclusive of the poets.

#### FRE 401 Contemporary French Drama

3 credits

Prerequisite: French 202

A survey of the development of French Drama from 1870 to the present day; both the literary and technical character of its evolution will be studied in the most representative plays.

# FRE 402 Lyric Poetry in the Nineteenth Century

3 credits

Prerequisite: French 202

A study and appreciation of the poetical development in France from Lamartine to Verlaine.

# FRE 403 Twentieth-Century Literature

3 credits

Prerequisite: French 202

A study of the development of French literature from 1900 to the present.

# FRE 404 Advanced Prose Composition

3 credits

Prerequisite: French 202

A study of the stylistic structure of sentences and paragraphs; review of grammar when necessary.

#### FRE 405 French Civilization and Culture

3 credits

A study of the characteristics of French culture based upon anthropological and sociological studies; humanistic and scientific contributions to civilization; readings and reports.

## FRE 408 Eighteenth-Century Literature

3 credits

Prerequisite: French 202

A study of the literature of the eighteenth century as a reflection of the historical, social, and cultural development of France.

## SPA 302 Contemporary Spanish Literature

3 credits

A study of the outstanding authors of the twentieth century and their works.

# SPA 305, 306 Spanish-American Literature

6 credits

Prerequisite: Spanish 202

Selections from the principal Spanish-American writers from the sixteenth century to the present.

#### SPA 308 Advanced Conversation

3 credits

Prerequisite: Spanish 202

A course to develop the technique and vocabulary of discussion as a supplement to expression in the areas of experience.

#### SPA 310 Advanced Prose Composition

3 credits

Prerequisite: Spanish 202

A study of the stylistic structure of sentences and paragraphs; review of grammer when necessary.

#### SPA 401 Spanish Drama of the Goiden Age

3 credits

Prerequisite: Spanish 202

A study of the chief dramatists of the period.

# SPA 402 Spanish Civilization and Culture

3 credits

Prerequisite: Spanish 202

A study of the characteristics of Spanish culture based upon anthropological and sociological studies; humanistic and scientific contributions to civilization; readings and reports.

# **SPA 405** Advanced Phonetics

3 credits

A systematic study of articulation and intonation intended for teachers; peninsular Spanish; the development of divergent pronunciation patterns of Latin-American Spanish.

# SPA 406 The Novel and Poetry of the Golden Age

3 credits

Prerequesite: Spanish 202

A study of the principal poets of the age; birth and development of the pastoral and picaresque novels; readings and discussions; reports.

#### SPA 407 Cervantes

3 credits

Prerequisite: Spanish 202

An analysis of Cervantes' works and their importance in the literature of the Siglo de Oro; readings and discussions; reports.

# FRENCH (SEE FOREIGN LANGUAGE)

#### **GEOGRAPHY**

# **GEO 312 Introductory Geography**

3 credits

Recommended for teacher training in Social Studies.

A study providing an orderly examination of the world's spatial complexities; emphasis on landscape features, transportation, landforms, vegetation, soil, land cultivations.

# **GERMAN (SEE FOREIGN LANGUAGE)**

#### **GREEK**

# GRK 001 Civilization of the Greek World

3 credits

No prerequisite

Development and salient characteristics of the ancient Greek civilization, with special emphasis upon Greek contributions to western civilization.

This is a lecture course in English and a knowledge of Greek is not necessary.

# GRK 101-102 Elementary Greek

6 credits

Introduction to Greek language and literature. Credit for this course is allowed only to those who have not offered Greek for entrance.

#### GRK 203 Intermediate Greek

3 credits

Prerequisite: Greek 102 or equivalent Study of Homer and the epic; readings.

# **HEALTH SCIENCE**

#### **HS 101 Personal Health**

3 credits

An introductory overview to the entire area of Personal Health. Factors in personal health at various periods in the life span, role of the Health Educator in understanding human nutritional, psychological and environmental needs. Special emphasis on Personal Health problems caused by urban living.

## **HS 102 Community Health**

3 credits

This introduction to the problems of community health covers the spectrum of health problems currently providing the greatest fears and concerns. Sanitation, pollution, food purity, narcotics, venereal disease etc. all outlined as to severity and compared to community health problems in other areas. Special note taken of public and community health picture in the urban environment.

# HS 103 Epidemiology

3 credits

The natural history of disease in various population groups. Causes from the environment as well as biological factors influencing the emergence of diseases are treated, theory and practice relating to the prevention and control of diseases of importance in public health.

#### **HS 202 Health Problems**

1 credit

A study of the effects of the use of alcohol, tobacco, drugs, and narcotics upon the individual; the venereal diseases; current conditions likely to affect the health of the student.

# HS 203 Safety Education and First Aid

3 credits

Essential understanding necessary for safe living; the causes of accidents in school, community and industry and steps necessary to prevent them. First aid treatment of injuries as prescribed by the Red Cross.

## HS 204 Environmental Health

3 credits

Consideration of environmental health problems. Topics discussed include pollution, natural resources, urban migration, radiation, noise, and food contamination.

#### **HS 205 Nutrition**

Sanadia

A study of the nutrients; fundamental principles of normal nutrition and their application to the selection of adequate diets for individuals and families of varying economic strata. Nurtition programs on the national, state and community levels discussed. Students are taught to research, prepare and organize nutrition educational material.

#### **HS 301 Health Counselling**

2 credits

The core of the effective Health program is the ability of the Consultant to organize and guide in ways that bring about new health attitudes and improved health habits. Physical, mental, emotional and social health problems of school children on elementary and secondary levels, adult health needs, remedial procedures, handling of confidential records, counselling techniques; health aspects of educational and vocational guidance.

# **HS 302 Consumer Health Education**

2 credits

This course studies the problems of consumers relative to food purchases with the purpose of instructing the Health Educator in the legal and methodological aspects of this public health concern. False advertising, incorrect labelling and introduction of harmful ingredients into the merchandise offered for sale studied. Hazards of various products, manufacturers' warranties etc. discussed. Referral agencies for public redress described; organization of school and community programs for consumer protection.

#### HS 303 Home and Family Living

2 credits

Family living is treated as a crucial focal point of healthful living. The family is described as a group of persons each interacting. Emphasis placed upon the study of foundations of marriage, planning for parenthood, provisions for health and insurance, retirement planning, Current issues in marriage and family life discussed, the generation gap, alternate life styles etc.

#### HS 304 Mental Health

2 credits

A study of the basic principles of good mental health developed in the present framework of school and community living. Forces and stresses tending to cause anxiety, nervousness, psychological neuroses etc. treated with a view towards organizing programs in mental health. Students are trained to refer suspected cases of serious mental problems to designated referral agencies and psychiatric personnel.

# HS 401 Organization, Administration and Development of Health Education Programs in Schools

3 credits

This course studies current school health needs including health services, health instruction and healthful living. Administration decision making concerning these school health needs. For those preparing for positions as health coordinators, administrators or teachers.

# **HS 403 Physical Diagnosis**

2 credits

The more common diseases, physical abnormalities, and atypical health conditions among human beings. Recognition of symptoms and use of proper referral procedures. Organization of programs for such diagnosis in schools and communities.

#### HS 461 Meeting Urban Health Needs

3 credits

Examines major urban health problems in depth and provides the health educator with the material and means to set up quality programs in the area of urban health care both in the schools and in the community. The first portion of the course deals with a survey of major urban health problems and solutions dealing with them.

#### HS 463 Crucial Health Issues

3 credits

Examines health problems of major concern. The course deals mainly with Narcotics and Drug Abuse, Venereal Disease and Alcoholism and Tobacco usage. Public attitudes toward diseases and their willingness to cooperate in public and school health programs discussed. Comparisons to crucial problems elsewhere made. Students research methods and materials for setting up school and community health programs dealing with these issues. Referral agencies, such as voluntary health organizations, World Health Organization etc. discussed and utilized.

# HS 501 Organization, Administration and Development of Public and Community Health Programs

3 credits

Laws and regulations delineating the state's concerns in the community health area discussed. Role of the Community Health planner in organizing programs dealing with public health problems. Structures of organizations, chains of command, intragroup and intergroup communications methodology. Utilizing community agencies as resources in developing community health programs - education of the public in areas of health concern, improving efficiency of health delivery services.

# HS 504 Internship - Community Health Programs

6 credits

Students select areas and topics of interest for research. Field experiences, apprenticeships etc. are arranged. Students work in field experiences with community health organizations, hospitals, voluntary health organizations etc. Field experiences are supervised - training lasts a minimum of one semester although a longer period is desirable. Students hold seminar meetings to discuss problems encountered and progress made in solving them

#### **HISTORY**

# HIS 101-102 Survey of Western Civilization

6 credits

A two-semester survey of the principal political, economic, social, religious, cultural, and intellectual forces in Western Civilization.

# HIS 201 History of the United States 1896-1967

3 cradite

The major economic, social, intellectual, and political movements of the twentieth century in the United States.

#### HIS 202 Ancient History

3 credits

A study of ancient history from the origin of man to the "Fall of Rome"; contributions made by the ancient world to modern civilization.

#### **HIS 301 Medieval History**

3 credits

A survey of a history of the Middle Ages; feudalism, universities, monarchy, church, the Hundred Years' War.

## HIS 303 The World in the Twentieth Century

3 credits

A study of world history as seen from our century; the Russo-Japanese War, problems in Africa, the Balkan question, World Wars I and II; the conferences during and after the wars.

#### HIS 305 Latin American History I

3 credits

A survey of Latin American history from pre-conquest days through the independence movement; relationships of the period to present-day Latin America.

#### HIS 306 Latin American History II

3 credits

A survey of contemporary Latin America; church-state relationships, land, labor, trade, and culture.

#### **HIS 307 American Minorities**

3 credits

A survey of the peopling of the North American continent, with particular emphasis upon the United States.

## HIS 311 A History of the Black American

3 credits

A study of the Black American from 1619 to the present, with emphasis placed on the blacks in the United States during the twentieth century.

#### HIS 312 Renaissance and Reformation

credite

Intellectual and religious movements during the transition from the Middle Ages to modern times.

# **HIS 313 International Labor Movements**

3 credits

A comparative study of the origins and development of trade unionism and the present roles of labor internationals and national federations both in developed and underdeveloped nations including the U.S., Western European and Latin American blocs, the Soviet Union, Japan and the People's Republic of China.

#### HIS 314 Nations of the Modern World

3 credits

The major nations of the world in modern times, offered in seven parts.

- a) France
- b) Latin America (Argentina, Brazil, Mexico).
- c) China.
- d) Russia.
- e) Italy. Offered Fall, 1972.
- f) England. Offered Spring, 1973.
- g) Germany. Offered Fall, 1973.

#### HIS 400 Historical Seminar

3 credits

A thesis seminar. Emphasis placed on research and historical criticism. Divided into two separate seminars—Local History and Problems of the Western Hemisphere.

# HIS 401 History of the United States:

The Age of Discovery — 1789

A survey from the earliest explorations and discoveries to government under the Constitution; the colonial struggles, the dominance of Great Britain, the Revolutionary War, the "Critical Period."

HIS 402 History of the United States: 1789-1896 3 credits
A study of the United States as it struggled to set the new government
into motion; political, economic, cultural, and diplomatic
developments in the nineteenth century.

HIS 403 Modern European History: 1600-1763 3 credits A study of the history of Europe from the end of the religious revolts to the end of the Seven Years' War; the Thirty Years' War, the Commercial Revolution, the rise of the nation-state, the age of absolutism and enlightenment.

HIS 404 Modern European History: 1763-1900 3 credits
A study of the causes and effects of the French Revolution, the era of
Metternich, emphasis on the Franco-Prussian War, the growth of
nationalism, socialism, and democracy.

HIS 405 Cultural and Social History of the United States 3 credits A study of the cultural and social developments in the United States; the trends of literature, arts, science, and philosophy as America comes of age.

HIS 406 Current Problems

An analysis of the major problems of the following world areas: Far East, Africa, Latin America, Middle East; a lecture course conducted by leading figures in academic, political, and diplomatic fields. Offered in the spring semester on a four-year cycle.

HIS 407 Survey of United States Foreign Relations 3 credits
A survey of American diplomacy from 1775 to the present; "Manifest
Destiny," the Civil War, the United States as a world power, and the
United States after two World Wars.

HIS 408 Historiography 3 credits A study of the sources of history; historians from major periods; the intellectual viewpoint in history; the distinctive types of historical writing.

HIS 409 The American Presidents

A study of the historical evolution of the Presidency from the eighteenth century to the present, emphasizing both the institutions and the characters of the men who held the office.

# ITALIAN (SEE FOREIGN LANGUAGE)

#### LATIN

# LAT 001 Civilization of the Roman World

3 credits

No prerequisite

Development and salient characteristics of the ancient Roman civilization, with special emphasis upon Roman contributions to Western civilization.

This is a lecture course in English and a knowledge of Latin is not necessary.

# LAT 101-102 Elementary Latin

6 credits

Introduction to Latin language and literature. Credit for this course is offered only to those who have not offered Latin for entrance.

#### LAT 103 Intermediate Latin

3 credits

Prerequisite: Latin 102 or two years of high-school Latin Reading selections; emphasis on Cicero, Ciceronian style.

#### LAT 106 Advanced Latin

3 credits

Prerequisite: Latin 103 or three years of high-school Latin Reading selections; emphasis on Virgil; study of prosody.

## LAT 204 Latin Comedy

3 credits

Prerequisite: Latin 106 or equivalent Readings in Plautus, Terence; origins of drama.

# LAT 301 Latin Satire

3 credits

Prerequisite: Latin 204 or equivalent

Readings in Horace, Juvenal, study of satire.

#### **MATHEMATICS**

## MAT 101 Fundamental Algebra

3 credits

Algebraic techniques; solution of first degree equations; graphs of linear and parabolic curves; applications with emphasis on business problems; compound interest and simple annuities.

Intended for students who enter without three units of H.S. Mathematics, or with permission of Department Chairman.

These credits may be used as elective credits towards the degree, but may not be used for required mathematics courses.

#### MAT 103 Foundations of Mathematics I

3 credits

Historical orientation of mathematics; logic, number concepts, and algebra; readings on the mathematical order of nature; projective geometry and coordinate geometry. Intended for B.A. students.

# MAT 104 Foundations of Mathematics II

3 credits

Applications of simple formulas; review of basic algebra; application of formulas to astronomy and gravitation; basic concepts of the calculus; trigonometric functions with applications to music; non-Euclidean geometries; modular arithmetic. Intended for B.A. students.

MAT 105 College Algebra

3 credits

Prerequisite: Mat 101 or three years of high school mathematics Postulates; number system; linear and quadratic equations and functions; inequalities; mathematical induction; binomial theorem; determinants and matrices. Intended for B.B.A. students, and Economics Majors.

MAT 108 Principles of Mathematics

3 credits

Prerequisite: Mathematics 105

An introduction to differential and integral calculus with the analytic geometry of simple conics and functions; emphasis on applications, including the calculus of polynomial, logarithmic, and exponential functions. Intended for B.B.A. students and Economics Majors.

## **MAT 109 Finite Mathematics**

3 credits

Prerequisite: Mathematics 105

Algebra of matrices; number bases; linear programming; applications.

#### MAT 202 Calculus I

4 credits

Prerequisite: Intermediate Algebra and Trigonometry or Eleventh Year Mathematics

Emphasis given to calculus, including the differentiation and integration of simple algebraic forms, areas, volumes, rate and distance problems, differentials, approximate integration; polar coordinates and parametric equations are also studied.

#### MAT 203 Calculus II

3 credits

Prerequisite: Mathematics 202

Derivatives of trigonometric, logarithmic, and exponential functions, integration by formal methods, by parts, by trigonometric substitution, by partial fractions; areas and volumes; arc length and surface areas; approximate integration.

#### MAT 301 Statistics

3 credits

Prerequisite: Mathematics 105 or 202

A study of the principles and methods underlying collection of data, tabular and graphic representation, frequency distributions.

#### MAT 304 Calculus III

3 credits

Prerequisite: Mathematics 203

Convergent and divergent series; expansion of functions in series; partial derivatives; double and triple integrals with applications; vector algebra with applications.

# MAT 305 Theory of Equations

3 credits

Prerequisite: Mathematics 202

Complex numbers, polynomials, algebraic equations, solutions of cubic and biquadratics; Cardan's and Ferrari's formulas; ruler and compass constructions; determinants and matrices.

# MAT 307 Probability and Statistics I

3 credits

Prerequisite: Mathematics 203

A study of probability in finite sample spaces, discrete type random variables, and probability density functions with emphasis on the binomial and Poisson distributions and their applications to testing statistical hypotheses.

# MAT 308 Probability and Statistics II

3 credits

Prerequisite: Mathematics 304 and 307

Continuous type distributions, sampling theory, transformations of variables, point estimation, sufficiency and stochastic independence, limiting distributions, and statistical hypotheses.

## MAT 309 College Geometry

3 credits

An extension of Euclidean geometry; a critical evaluation of the Euclidean postulates; a study of other geometries; projective, other non-Euclidean geometries.

#### MAT 400 Mathematics Seminar

2 credits

Restricted to senior and qualified junior mathematics majors. A lecture and problem seminar.

#### MAT 401 Differential Equations I

3 credits

Prerequisite: Mathematics 203

Methods of solving ordinary, differential equations with applications to problems in geometry, physics, and chemistry; differential equations of the first order and the first degree or degree higher than first, and of the second order; linear differential equations with constant coefficients.

#### MAT 402 Differential Equations II

3 credits

Prerequisite: Mathematics 401

Methods of equations of order higher than the first; integration in series; Legendre's equation; Bessel's equation; total differential equations; partial differential equations of the first order and of higher orders; Fourier series; applications.

#### MAT 403 Advanced Calculus I

3 credits

Prerequisite: Mathematics 304

Rolle's Theorem; law of the mean; partial differentiation and implicit functions; Taylor's series; differentiation and integration under integral sign; line integrals; theory of integration.

#### MAT 404 Advanced Calculus II

3 credits

Prerequisite: Mathematics 403

Series—absolute and uniform convergence; special integrals; improper integrals; gamma and beta functions; introduction to complex functions.

# MAT 406 Theory of Numbers

3 credits

Prerequisite: Mathematics 202

An introductory course dealing mainly with divisibility, number theorems, theory and congruences, quadratic residues, and Diophantine equations.

#### MAT 407 Vector Analysis

3 credits

Prerequisite: Mathematics 304

The algebra and calculus of vectors, coordinate systems, scalar or dot product; applications to space geometry; vector operators, divergence of a vector, and curvilinear coordinates; line and surface integrals; Stoke's theorem and applications.

# MAT 408 Numerical Analysis

3 credits

Prerequisite: Mathematics 304 and 401 and Electronic Data Processing 203

Numerical solutions of equations, difference tables, operator methods; numerical differentiation and integration; numerical solution of ordinary differential equations; systems of linear equations; solutions by iterative methods.

## MAT 409 Modern Algebra

3 credits

Prerequisite: Mathematics 304

Sets and mappings; theory of groups, rings, and fields; isomorphism: the field of real numbers and the field of complex numbers.

#### MAT 410 Functions of a Complex Variable

3 credits

Prerequisite: Mathematics 403

Point set theory; algebra of complex numbers; complex analysis; Cauchy-Riemann partial differential equation; Cauchy-Goursat theorem; conformal maps.

#### MAT 411 Real Variables

3 credits

Prerequisite: Mathematics 403

The real numbers and the concepts of limit, sequence, and series; functions of one real variable, continuity, derivative integrals.

# MAT 412 Linear Algebra

3 credits

Prerequisite: Mathematics 304

Vector spaces; basis; dimension; systems of linear equations; matrices and determinants; scalar product; orthogonality and eigen-values.

# **MAT 414 Topology**

3 credits

Prerequisite: Mathematics 403

Set theory; definition of topology and topological space; homeomorphism and homeorphic spaces; compactness and connectedness; separation axioms; metrics spaces and completion of a metric space.

#### **PHILOSOPHY**

The student is required to choose one course in Group "A", then one course in Group "B", and then one course in Group "C".

#### **GROUP "A"**

# PHI 101 Basic Problems In Philosophy

3 credits

An introduction to philosophical inquiry through an examination of questions in the different areas in philosophy.

# PHI 314 Logic

3 credits

An introduction to the systems of traditional and contemporary logic with emphasis on logical exercises.

#### **GROUP "B"**

## PHI 201 Philosophy Of Man

3 credits

An inquiry into the nature of man through the analysis of such concepts as mind and body, sensation perception, and intellection, reason and passion.

#### PHI 302 Theory Of Knowledge

3 credits

An examination of the concepts of definition, description, explanation, first principles, hypotheses, evidence, certitude and truth.

#### **GROUP "C"**

#### PHI 403 Moral Philosophy

3 credits

Basic questions of moral philosophy with particular attention to the question of relationships between a given ethic and its corresponding conception of man and being.

# PHI 404 Political Philosophy

3 credits

Fundamental concepts and problems in political philosophy: law, power, freedom, tyranny, political society.

The following courses in philosophy will be offered on a two year cycle.

#### PHI 309 Marxism

3 credits

Concepts, sources, backgrounds of Marxism; dialectical and historical materialism; Hegel and Feuerbach; problem of history; meaning of work; notion of superstructure; concept of revolution.

# PHI 310 American Philosophy

3 credits

Distinctive characteristics of American philosophic thought analyzed and discussed; attention to thought of Edwards, Emerson, Royce, Santayana, Pierce, James, Mead, Dewey.

#### PHI 323 Existentialism

3 credits

Texts of existentialist philosophers read and analyzed. Reports.

# PHI 326 Philosophy of Science

3 credits

The concept of natural science through and analysis of its central themes: hypothesis and evidence, criteria for verification and confirmation, role of law in explanation, theories and theoretical reduction. Contrasting views will be presented and discussed.

## PHI 431 Greek Philosophy Seminar

3 credits

Close examination and analysis of representative texts in ancient philosophy with particular emphasis on Plato and Aristotle.

#### PHI 432 Medieval Philosophy Seminar

3 credits

Close examination of representative texts of major figures from the Christian, Arabic and Jewish traditions. Particular attention to the question of the relation between philosophical inquiry and religious belief.

#### PHI 441 Modern Philosophy Seminar

3 credits

Close examination and analysis of representative texts of some of the major figures in modern European philosophy from Descartes to J.S. Mill.

#### PHI 442 Contemporary Philosophy Seminar

3 credits

Concentration on analysis of the writings of a major figure in contemporary philosophic thought. The philosopher studied to be determined by the department and by the interests and needs of the major students.

## PHYSICAL EDUCATION

# PE I-II (M), (W) Skills Activities

4 credits

Instruction and practice in the fundamentals of team sports and games; psychology of coaching; coaching methods and techniques.

# PE III (M), (W) Skilis Activities

2 credits

Individual and dual sports; conditioning activities for physical fitness development; games of low organization.

### PE IV Rhythmic Activities

2 credits

Folk, square, social dance; theory and practice in rhythmic movements applicable to different age levels.

# PE 101-102 (M), (W) Lifetime Sports

2 credits

Students may select any of the following activities:

Basketball Volleyball Physical Conditioning

Volleyball Badminton Swimming Life Saving Gymnastics Modern Dance Folk Dance Field Hockey

Fencing

# PE 103 (M), (W) Elementary Aquatics

1 credit

Development of basic diving and swimming skills. Students must demonstrate basic swimming ability.

# PE 104 (M), (W) Advanced Aquatics

1 credit

Life saving, water safety, and competitive swimming; teaching and coaching methods and techniques.

# PE 201 The Recreation Program

1 credit

The preparation of non-professionals and volunteer workers for neighborhood community recreational programs; programs, use of facilities, public relations, and leadership; local youth service organizations.

# PE 203 Community Recreation

3 credits

History and philosophy or recreation; consideration of current problems; recreational organization and leadership; intensive study of urban community programs.

## PE 205 (M), (W) Elementary Gymnastics

1 credit

Tumbling and apparatus development of basic skills; floor and mat stunts.

# PE 206 (M), (W) Advanced Gymnastics

1 credit

Advanced skill techniques; emphasis on methods and procedures for individual and group instruction.

# PE 208 Applied Anatomy and Physiology (Kinesiology) 2 credits Emphasis on the action of the joints, muscles, and ligaments involved in

Emphasis on the action of the joints, muscles, and figaments involved in physical exercise, their relationships to other body systems and the mechanical principles involved.

# PE 301 History and Principles of Physical Education

credi:

Orientation in the history and principles of physical education; current trends and problems in physical education analyzed and evaluated.

# PE 302 Physical Education for the Atypical

2 credits

Development of therapeutic exercise programs and of modified athletic activities to meet the specific needs of the handicapped.

# PE 304 Organization and Administration of Physical Education 3 credits

Emphasis on organizational and administrative policies and procedures; purchase and care of equipment and supplies; public and professional relations; structural and functional aspects of a school program in physical education and athletics.

# PE 305 Physiology of Exercise

2 credits

Physiological effects of exercise and of movement on the human body; physiology of growth and of development; the neuromuscular bases of physical activity.

## PE 307 Camp Administration

3 credits

Study of various types of camps; counselor selection and training, program planning, facilities and equipment, health and safety; basic principles and current trends in camping.

# PE 402 Evaluation in Physical Education

3 credits

Methods and procedures used in the construction, administration and interpretation of standardized testing in Physical Education; introduction to elementary statistical methods.

#### **PHYSICS**

# PHY 101-102 General Physics

8 credits

Prerequisite or Corequisite: Mathematics 202, 203

Two lectures, two recitations, and two lab hours per week

An elementary consideration of the fundamental laws and concepts of mechanics, heat, sound, light, electricity, and magnetism; experimental study of various topics made in the laboratory.

#### PHY 201 Mechanics i

3 credits

Prerequisite: Physics 101-102; Prerequisite or Corequisite: Mathematics 304

Vectors; statics; work and the stability of equilibrium; oscillatory motion in one dimension; motion of a system of particles; motion of a rigid body in two and three dimensions; central force fields; accelerated reference systems; normal coordinates and wave motion; introduction to Lagrangian and Hamiltonian mechanics.

# PHY 202 Electricity and Magnetism I

3 credits

Prerequisites: Physics 101-102, Mathematics 304

Vector calculus; electrostatic fields; solutions of Laplace's equation and Poisson's equation; dielectrics; magnetic fields due to steady currents; magnetic potentials; magnetic media; Maxwell's equations; plane electromagnetic waves and radiation.

# PHY 303 Modern Physics

3 credits

Prerequisite: Physics 101-102

Special theory of relativity; waves and particles; atomic structure; Bohr-Sommerfeld theory; introduction to quantum mechanics with detailed application to the hydrogen atom; electron spin and complex atoms; the physics of molecules; the atomic nucleus, nuclear decay, and nuclear reactions.

# PHY 304 Thermodynamics

3 credits

Prerequisite: Physics 101-102

The first and second laws of thermodynamics with various applications; introduction to the kinetic theory of gases and statistical mechanics.

# PHY 306 Optics

3 credits

Prerequisite: Physics 101-102

Principles of reflection, refraction, and interference; Fresnel and Fraunhofer diffraction; dispersion, polarization, and radiation.

# PHY 311 Intermediate Laboratory

2 credits

Prerequisite: Physics 101-102

Four lab hours per week

Basic experiments selected from atomic physics, electricity, magnetism, or optics so chosen to meet the interests of the individual student.

# PHY 401 Mechanics II

3 credits

Prerequisites: Physics 101-102, Mathematics 304, 401

Variational principles and Lagrange's equations; rigid body motion; Hamilton's equations; canonical transformations; Hamilton-Jacobi equation; small oscillations.

# PHY 402 Electricity and Magnetism II

3 credits

Prerequisites: Physics 101-102, Mathematics 304, 401

Maxwell's theory; electromagnetic waves in free space and matter; guided waves; radiation of a moving charge.

## PHY 405, 406 Mathematical Physics

6 credits

Prerequisites: Mathematics 304, 401

Partial differential equations of physics and their solutions; Sturm's theory of ordinary differential equations; eigenvalue problems; calculus of variations; Fourier expansions; Legendre polynomials and Bessel functions; spherical harmonics; Fourier integral and transforms: Green's functions.

# PHY 412 Advanced Laboratory

2 credits

Prerequisite: Physics 311 Four lab hours per week

Selected experiments in atomic physics, electricity and magnetism, electronics, or optics chosen according to the interests of the student. The experiments are more detailed and require more background in physics than those on the intermediate level.

#### PHY 413, 414 Electronics

8 credits

Prerequisite: Physics 101-102

Three lectures and two lab hours per week

Electron ballistics; electron emission from metals; vacuum and gas tubes; rectifier circuits; amplifying circuits; vacuum tube oscillators; modulation and detection; semi-conductors and solid state physics devices; experimental study of these topics in the laboratory.

#### **POLITICAL SCIENCE**

# P SC 202 Introduction to Political Science—

# Scope and Method

3 credits

Survey of the major contemporary trends in Political Science research enables the student to understand and work with a variety of analytical tools.

#### P SC 204 American National Government

3 credits

A study of the constitutional basis, structure, and functioning of American National Government; the legislature, executive, judiciary; public opinion; pressure groups; the electoral system.

# P SC 301 Comparative Government

3 credits

A study of the basic political ideas and institutions of the major foreign powers; the evolutions of the principles, methods, and problems of European and American Governments.

## P SC 303 American Political Parties

3 credits

A study of the American party system; the men who made the parties; development of the twoparty system; a survey of third parties.

# P SC 304 State and Local Government

3 credits

A study of the governmental structure of the states and local government; the similarities and differences in the executive, legislative, and judicial branches on both levels.

# P SC 305 Politics and Administration in Latin America 3 credits

A study of the forms of organization, function, and operation of governments in the Latin American countries; church and state; political stability; labor; economic conditions.

# P SC 306 Metropolitan Government and Politics

3 credits

The urban-suburban "crisis" confronting governmental structures in areas of planning, financing, transportation, housing, education, and other public services.

# P SC 307 Government and Politics of the Soviet Union and Communist China 3 credits

The two major communist countries' leadership patterns, policy making processes, governmental structures, and public administration.

### P SC 400 Political Science Seminar

3 credits

A course for seniors majoring in political science. The student will be guided in the selection of a senior thesis topic. Regular classroom lectures will be offered on the scope and methodology of contemporary political science.

# P SC 402 American Constitutional Law

3 credits

United States Supreme Court cases related to contemporary constitutional issues: civil rights, criminal procedures, internal security, etc.; the Court's personalities, politics, and procedures.

## P SC 404 Government and Business, 1865-Present

3 credit

A study of the relation of government to business as a control and as an aid; the commerce clause as the source of extended power to government control; decisions of the courts; state police powers.

# P SC 405 Introduction to Law and the American Judicial Process

3 credits

The nature of law and its role in society; the "politics" of the administration of justice: selections of judges, criminal and civil procedure, judicial and jury decision making, courtroom operations, etc.

#### P SC 406 International Relations

3 credits

A study of international politics, organizations, and law; the significance of international law from Hugo Grotius to the present; the work of the League of Nations compared to the successes and failures of the United Nations.

#### **PSYCHOLOGY**

# **PSY 201 General Psychology**

3 credits

General introduction to psychology as a science; the data, methodology, and purposes of psychology.

# PSY 220 Experimental Analysis and Design

3 credits

Three lecture hours per week

A consideration of the use of experimental method in psychological research; scientific research as a decision making process.

# **PSY 300** Psychology Statistics

3 credits

Prerequisites: Psychology 201, 220

The use of statistics in Psychology; descriptive and inferential techniques, prediction, and tests of significance.

# PSY 305 Basic Experimental Psychology

4 credits

Prerequisites: Psychology 201 and 220 Two lectures and three lab hours per week

A general experimental approach to the study of human behavior; sensation, learning, motivation, emotion; individual and group research, experimentation, and report writing.

# **PSY 309** Tests and Measurements

3 credits

Prerequisite: Psychology 201

The theoretical framework, underlying principles, and techniques of psychological tests; tests of aptitude, achievement, interest, and personality.

# PSY 310 Psychology of Learning

3 credits

Prerequisite: Psychology 201

Major theories of learning and significant research findings in the areas of learning, motivation, and behavioral modification.

PSY 403 Developmental Psychology I (Child Psychology) 3 credits
Human development from conception to early adolescence; psychophysical development and theories of personality development.

# PSY 404 Developmental Psychology II (Adolescent Psychology)

3 credite

Human development from puberty to early adulthood; psychophysiological development and psychosocial problems of adolescence.

# **PSY 406** Personality Theories

3 credits

Prerequisite: Psychology 201

Theories of personality; structure and measurement of personality variables.

# PSY 408 Physiological Psychology

3 credits

Prerequisite: Psychology 201

The interrelationship of the physiological structure and behavior of the organism; consideration of the structure and function of the nervous system, the neurophysiological foundation of sensation, perception and emotion; comparative studies on neurophysiological structure and response.

# **PSY 409** Abnormal Psychology

3 credits

Deviant human behavior from a psychodynamic point of view; etiology, symptom pattern, underlying dynamics, and treatment of emotional illness.

# PSY 410 Social Psychology

3 credits

Social dimensions in psychology; reciprocal contributions of the behavioral sciences to the understanding of human behavior.

# PSY 411 Systematic Psychology

3 credits

Prerequisites: Psychology 201

The history of psychology with special emphasis on the contribution of contemporary psychological research and theories.

# **PSY 412** Psychology of Perception

3 credits

Prerequisite: Psychology 201

The nature of perceptual processes and their functional relationship to environmental, behavioral, and physiological factors.

#### **PSY 413 Group Dynamics**

3 credits

Individual behavior in the group process; current theoretical views and research findings: sensitivity training; techniques of working with groups; participation in training groups and skill groups; role playing.

# **PSY 415 Clinical Psychology**

3 credits

Prerequisites: Psychology 201 & 409

A survey course dealing with the field of Clinical Psychology. The application of psychotherapeutic techniques will be stressed along with clinical testing in personality diagnosis and research methodology in clinical psychology.

#### PSY 421, 422 Field Experience in Psychology

6 credits

Prerequisites: Psychology 201; 409

Open to senior psychology majors only with permission of the Department Chairman. Observation and supervised experience in selected clinical, social, educational or industrial settings; participation in institutional staff meetings and training sessions.

#### PSY 426 Counselling The Drug User

3 credits

Techniques for recognizing drug users; commonly used drugs and their effects; groups, organizations, services, and individuals providing referral care and therapy; counseling techniques for the layman. Outside sources will be used to supplement presentation.

#### PSY 450 Experimental Psychology: Social

4 credits

Prerequisite Psychology 300; 305; 410

Two lectures and three lab hours per week

The methods and special techniques employed in the experimental analysis of social behavior.

# PSY 451 Experimental Psychology: Learning and Motivation 4 credits

Prerequisite: Psychology 300; 305; 310

Two lectures and three lab hours per week

The methods and special techniques employed in the experimental analysis of learning and motivation.

# PSY 452 Experimental Psychology: Sensation and Perception4 credits

Prerequisite: Psychology 300; 305; 412

Two lectures and three lab hours per week

The methods and special techniques employed in the experimental analysis of sensory and perceptual processes.

# PSY 453 Experimental Psychology: Physiological

4 credits

Prerequisite: Psychology 300; 305; 408 Two lectures and three lab hours per week

The methods and special techniques employed in the experimental analysis of the physiological basis of behavior.

# PSY 455 Independent Research in Psychology

credit varies

Prerequisite: Psychology 305

The individual investigation into some selected topic of research in Psychology under the direction of a faculty member of the department. With approval of Department Chairman only.

### PSY 461 Psychological Aspects of Poverty

3 credits

The cultural and psychological framework around the notion of poverty: the psychology of poverty and its effects upon the urban complex; poverty as seen through the eyes of the ghetto community.

#### **RELIGIOUS STUDIES**

Seminars are reserved for those students who have completed nine credits in Religious Studies.

# **REL 103** Introduction to Theology

3 credits

An examination of the general theory of religion and the specific manifestation of Christianity.

#### **REL 203 Old Testament**

3 credits

A study of Old Testament literature using the tools of modern theological research.

#### **REL 204** New Testament

3 credits

A study of New Testament literature using the tools of modern theological research.

#### REL 205 The Problem of God

3 credits

A presentation and critique of the traditional proofs for the existence of God; an analysis of the development and the meaning of modern atheism; a reconstruction of the Christian approach to God.

# **REL 206** Christology

3 credits

A discussion of the meaning of the Incarnation and Redemption as revealed in Sacred Scripture and as probed by theologians past and present.

#### **REL 207 Sacraments**

3 credits

An exposition of Christ as the Sacrament of God and an analysis of the historical development of the seven sacraments.

#### **REL 208** The Church

3 credits

A study of the nature of the Church as the community of believers and of this Church's relationship to the whole of mankind.

# **REL 209** Fathers of the Church

3 credits

A study of the development of early Christian thought as expressed in the major writers of the Patristic Age.

# REL 210 Moral Theology

3 credits

The application of God's revelation to man's practical conduct as a Christian in the contemporary world.

# **REL 211 Liturgy**

3 credits

A treatment of the history and the evolution of the worship of the Church; current liturgical problems.

# **REL 213 Comparative Religions**

3 credits

An introduction to the basic tools used in the empirical study of religions; the specific application of these methods to selected systems as typical of a variety of expressions.

#### **REL 214** Near Eastern Religions

3 credits

An intensive study of the classical religious expressions of the ancient Near East; particular reference to the religions of Egypt, the Fertile Crescent, and Persia.

# **REL 215 Oriental Religions**

3 credits

An intensive study of the classical religious expressions of India, China, and Japan; particular reference to Hinduism, Jainism, Buddhism, Confucianism, Shintoism, and Zen.

# **REL 216** American Protestantism

3 credits

Prerequisite: Theology 219

The impact of the American Experience on the Puritan culture; the effect of Pietism and the Revivals on American religions; the Liberal Christianity of the nineteenth and twentieth centuries.

# REL 217 American Judaism

3 credits

The theological concepts of Judaism as they are understood and practiced by American members of the Jewish faith; the thought of particular Jewish leaders.

## **REL 218** Medieval Theology

3 credits

An overview of theological and spiritual thought from Gregory the Great to the Reformation (600-1500).

# **REL 219 Reformation Theology**

3 credits

An intensive study of the theologies of the major figures of the Reformation in Europe, both Trinitarian and anti-Trinitarian.

#### **REL 300** Seminar

3 credits

Topics of contemporary interest: religion as an institution, biblical studies, problems in morality, and process theology.

#### SCIENCE

#### SCI 301-302 General Earth Science

6 credits

Two lectures and two hours of laboratory and demonstration each week. A study of the solar system; basic concepts of climate; study of the structure and composition of the earth.

# SCI 400 A, B, C, D Science Seminar

1 credit

Discussion of methods and problems in the physical sciences, stressing the interrelations and integrations of the individual sciences. Special topics presented and discussed by faculty members and students.

Students may take one or all parts of this course with the permission of the Department Chairman. One part offered each semester.

#### **SOCIAL STUDIES**

#### S S 400 Social Studies Seminar

3 credits

A thesis seminar. Lectures will focus on a special subject determined each year by the Divisions. Students may determine the area in which they will write the thesis.

# S \$ 401 Seminar on Planning for the Future

3 credits

An introduction to the study of future; the role of sciences in planning; methods of long range predictions. Course offered on Pass-Fail basis.

#### SOCIOLOGY

# SOC 203 Principles of Sociology

3 credits

An analysis of the basic structure and dynamics of society; social interaction, social organization, social change, social processes; a summary of ideas of seminal sociologists.

## **SOC 301 Social Problems**

3 credits

Prerequisite: Sociology 203

An inquiry into the nature of social problems, both causes and consequences, within complex, industrial society, and in the perspective of social change.

# SOC 303A Criminology

3 credits

Prerequisite: Sociology 203

The sociological approach to the study of crime causation and to patterns of criminal and delinquent behavior in contemporary society.

# **SOC 303B** The Sociology of Corrections

3 credits

Prerequisites: Sociology 203 and 303A

The study of the structure and functioning of the American system of corrections: law enforcement, courts, institutions, probation and parole. Field experience required.

## SOC 304A Sociology of the Community

3 credits

Prerequisite: Sociology 203

Analysis of the community's functions and types, both traditional and contemporary; the impact of the urban, industrial, mass society on community, family, and individual.

#### SOC 304B Urban Planning

3 credits

Prerequisite: Sociology 203

The development of the urban environment; the inter-relationship of social and spatial factors; the need for planning; the tools of the planner; some current concepts concerning the role of the planner.

#### SOC 305 Social Anthropology

3 credits

Prerequisite: Sociology 203

An inquiry into the concept of culture as applied to both simple and complex societies; the ethnology of pre-literate peoples with emphasis on social, economic, and political organization.

#### SOC 307 The Peoples of Latin America

3 credits

Prerequisite: Sociology 203

A comparative survey of the interacting cultures of Latin America and the impact of Western civilization upon them; an analysis of problems and institutional conflict generated by social change in underdeveloped nations.

#### SOC 308 Introduction to Social Work

3 credits

Prerequisite: Sociology 203

Historical background and development of the principles of social service; analysis of the three major areas of social work: casework, group work, and community organization. Field experience required.

# SOC 309 Sociology of Communication

3 credits

Prerequisite: Sociology 203

Primary and secondary communication systems. Language in socialization, social organization, and social control; theories of communication. Modern mass communication media: structure, content, and effects.

#### SOC 311 Social Research Methods

3 credits

Prerequisite: Sociology 203

Preparation of a research proposal. Formulation of the problem; survey of relevant literature; definition of concepts; preparation of research design and research tools.

# SOC 312 Sociology of Minority Groups

3 credits

Prerequisite: Sociology 203

The analysis of interaction among racial, ethnic, and religious groups in the United States; the study of structure, dynamics, and problem aspects.

# SOC 313 Social Change

3 credits

Prerequisite: Sociology 203

Theories of social change: evolution, revolution, conflict, culture lag. Planned and unplanned change. Community development in urban slums and underdeveloped areas.

#### SOC 400 Sociology Seminar

3 credits

A coordinating seminar for the senior sociology majors only, for the purpose of integrating sociological knowledge, and for considering some of sociology's particular problems, e.g., sociology's scientific status, the place of values in the study of society, the relationship of sociology to other academic fields.

# SOC 401 Sociology of Politics

3 credits

Prerequisite: Sociology 203

Contributions of sociology to theory and research in political behavior; analysis of the social bases of power and the political processes in organized groups.

#### SOC 402 Sociology of the Family

3 credits

Prerequisite: Sociology 203

The structure and functions of the family; comparison of families in primitive and industrial societies in order to demonstrate the nature of problems associated with institutional change and civilizational processes.

# SOC 403 Industrial Sociology

3 credits

Prerequisite: Sociology 203

A study of human relationships in occupational groups; industrial organization; the political, economic, and ideological effects of technology, unionism, and bureaucracy.

# SOC 404 Theory and History of Sociology

3 credits

Prerequisite: Sociology 203

A systematic survey of the growth of sociological theory; a study of influential individuals and representative schools from Auguste Comte to the present day.

# SOC 405 Contemporary Sociological Theory

3 credits

Prerequisite: Sociology 203 and 404

An examination of major currents in sociological thought of the twentieth century; systematic explanation of the dimensions of sociology as conceived by seminal sociologists of Europe and the United States (Weber, Mannheim, Mills, Merton, and Parsons).

# SOC 406 Sociological Statistics

3 credits

Prerequisite: Sociology 203

Sampling techniques. Statistical techniques most commonly used in the analysis of sociological data.

# SOC 407 The Sociology of Religion

3 credits

Prerequisite: Sociology 203

The function of religion in a changing society: the nature of religious organizations (church and sect); religious movements, leadership, and communities; sacrization and secularization in the primitive and modern worlds.

# SPANISH (See Foreign Language)

#### **SPEECH**

# SPE 203 Public Speaking

3 credits

Introduction to phonetics and study of basic diction; speech screening; practice of extemporaneous speaking, organized according to purpose: speaking to persuade, to inform, to entertain; analysis of individual problems.

# SPE 204 Speech Clinic

No credit

One-hour-a-week service course.

Intensive work on the correction of outstanding speech difficulties; individual and small-group instruction given on a pass-or-fail basis. Required only of those who fail in speech screening during Speech 203.

# SPE 301 Oral Interpretation

3 credits

Prerequisite: Speech 203

Presentation and analysis of selections from various forms of prose and poetry.

# SPE 302 Discussion and Debate

3 credits

Prerequisite: Speech 203

Practice in discussions, speeches, and debates; theory of argumentation; analyzing problems and propositions; persuasive speaking; organization and development of cases; criticism and evaluation.

# SPE 303 Language and Communication

3 credits

The various aspects of language and communications study; descriptive and historical linguistics, semantics, the role of language in human behavior, communication theory, and media ecology.

# SPE 403 Advanced Oral Expression

3 credits

Prerequisite: Speech 203

Extended speeches and lectures relating to selected areas; practice in special forms such as reports, sales talks, sermons.

#### SPE 404 Acting

3 credits

An introduction to the basic techniques and theories of acting; exercises in the fundamentals of voice, pantomime, movement, and concentration. Conducted as a workshop.

# SPE 405 Play Production

3 credits

An introduction to the problems of bringing a play to life on the stage; the roles of the playwright, director, producer, actor, and the various stagecrafters as they apply to both professional and amateur productions.

# SPE 406 Theatre Seminar

3 credits

Current theatre trends and their relationship to modern society. Individual projects (play criticism, playwriting, play directing, etc.) to be assigned.

# SPE 407 Acting it

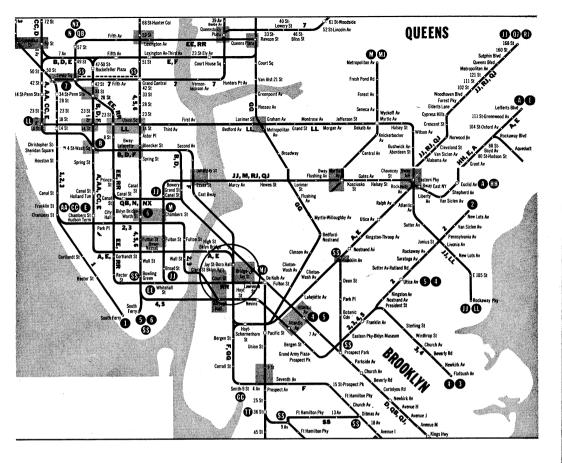
3 credite

No prerequisite. An extension of 404 dealing with the specifics of characterization, scene study and play analysis. Projects will take the forms of staged readings and performances of various types of dramatic literature.



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#### **Bus Routes**

- B-25—Fulton Street Line: from East New York Ave. & Alabama Ave., to Court and Remsen Sts. (1/2 block to college)
- B-26—Putnam Ave. Line: from Palmetto St. & Wyckoff Ave., to Fulton and Jay Sts. (3 blocks to college)
- B-37—Third Ave. Line: from Fourth Ave. & Shore Rd., to Fulton and Adams Sts. (2 blocks to college)
- B-38—DeKalb Ave. Line: from Seneca Ave. & Cornelia St., to Fulton and Joralemon Sts. (1 block to college)
- B-41—Flatbush Ave. Line: from East 71st St. or Ave. U, to Court and Remsen Sts. (1/2 block to college)
- B-45—St. John's Line: from St. John's Place and Ralph Ave., to Court and Joralemon Sts. (1 block to college)
- B-52—Gates Ave. Line: from Palmetto St. & St. Nicholas Ave., to Court and Joralemon Sts. (1 block to college)
- B-61—Crosstown Line: from 50th Ave. & Jackson Ave., to Court and Livingston Sts. (2 blocks to college)
- B-63—Fifth Ave. Line: from Shore Rd. and 4th Ave., to Atlantic Ave. and Court Sts. (4 blocks to college)
- B-67—Seventh Ave. Line: from 19th St. & Prospect Park West, to Adams and Tillary Sts. (3 blocks to college)
- B-75—Smith St. Line: from 19th St. & Prospect Park West, to Adams and Tillary Sts. (3 blocks to college)

