



ST
FRANCIS
COLLEGE

**1986-87
Catalogue**

Correspondence should be addressed to the offices indicated below and mailed to: St. Francis College, 180 Remsen Street, Brooklyn Heights, New York 11201.

Executive Business	President
Academic Matters	Vice-President—Academic Dean
Adult Services.....	Assistant Academic Dean
Alumni, Development and Public Relations.....	Vice-President—College Relations
Applications, Admissions	Director of Admissions
Athletics and Athletic Information	Director of Athletics
Business Matters	Vice-President—Financial Affairs
Financial Aid.....	Director of Financial Aid
Placement Service	Director of Placement
Student Affairs	Vice-President—Dean for Student Affairs
Transcripts, Records	Registrar

Visitors to the campus are welcome. Appointments should be made in advance for interviews with administrative staff or faculty members. The College telephone number is 718-522-2300.

This Catalogue was prepared on the basis of the best information available at the time of publication. However, all information contained herein is subject to change without notice or obligation.

ST. FRANCIS

COLLEGE

Catalogue 1986-87

180 Remsen St.
Brooklyn Heights, N.Y. 11201

ACADEMIC CALENDAR

Fall 1986

Aug. 24 (*Thursday*)

Registration for returning students begins

Aug. 29 (*Friday*)

Holiday—Administrative Offices and Library closed

Sept. 1 (*Monday*)

Holiday—Administrative Offices and Library closed

Sept. 8 (*Monday*)

Classes begin—free program changes

Sept. 9 (*Tuesday*)

Last day for free program changes

Sept. 12 (*Friday*)

Last day for adding courses

Oct. 3 (*Friday*)

Last day to file "Pass-Fail Course Requests"

Oct. 6 (*Monday*)

Pre-registration for Spring 1987 begins

Oct. 13 (*Monday*)

Holiday—no classes—Administrative Offices and Library closed

Oct. 31 (*Friday*)

Last day for seniors to file "Application for Degree" for 1987 Feb., June and Sept. Graduates

Nov. 3 (*Monday*)

Mid-semester grades due by noon in Registrar's Office

Nov. 4 (*Tuesday*)

No evening classes

Nov. 25 (*Tuesday*)

Thanksgiving recess begins after last class. Administrative Offices and Library closed until Monday, Dec. 1

Dec. 1 (*Monday*)

Classes resume—last day to file Automatic Withdrawal (W) grade

Dec. 13 (*Saturday*)

Last day of classes

Dec. 15-20 (*Monday-Saturday*)

Final examinations

Dec. 22 (*Monday*)

Final grades due by noon in Registrar's Office

Dec. 24, 25, 26 (*Wed., Thu., Fri.*)

Holidays—Administrative Offices and Library closed

Jan. 1, 2 (*Thursday, Friday*)

Holidays—Administrative Offices and Library closed

Spring 1987

Jan. 12 (*Monday*)

Registration for returning students begins

Jan. 19 (*Monday*)

Holiday—Administrative Offices and Library closed

Jan. 26 (*Monday*)

Classes begin—free program changes

Jan. 27 (*Tuesday*)

Last day for free program changes

Jan. 30 (*Friday*)

Last day for adding courses

Feb. 16-17 (*Monday, Tuesday*)

Holidays—no classes—Administrative Offices and Library closed

Feb. 20 (*Friday*)

Last day to file "Pass-Fail Course Requests"

Mar. 23 (*Monday*)

Mid-semester grades due by noon in Registrar's Office

Apr. 14 (*Tuesday*)

Easter recess begins after last class. Administrative Offices and Library closed April 17-20 inclusive.

April 27 (*Monday*)

Classes resume.

Registration for Summer Session and Pre-Registration for Fall 1987
Semester begin

May 4 (*Monday*)

Last day to file Automatic Withdrawal (W) grade

May 16 (*Saturday*)

Last day of classes

May 18-23 (*Monday-Saturday*)

Final examinations

May 25 (*Monday*)

Holiday—Administrative Offices and Library closed

May 26 (*Tuesday*)

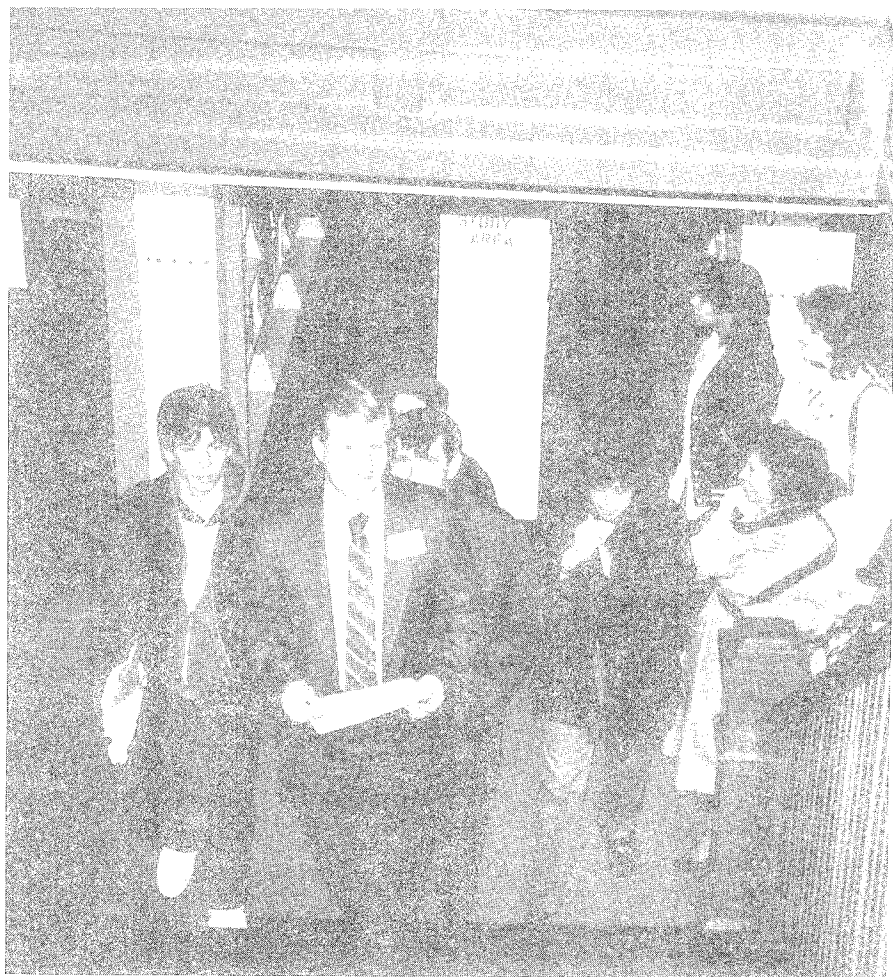
Final grades due by noon in Registrar's Office

June 3 (*Wednesday*)

Baccalaureate Mass

June 5 (*Friday*)

Commencement



Summer 1987

June 3 (*Monday*)

Summer Session begins

July 3 (*Friday*)

Holiday—no classes—Administrative Offices and Library closed

July 16 (*Thursday*)

Summer Session ends



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GENERAL INFORMATION

ABOUT ST. FRANCIS COLLEGE

Established in the City of Brooklyn in 1884 by the Congregation of the Religious Brothers of the Third Order Regular of St. Francis, St. Francis is today an independent, urban, non-residential, coeducational college. It is chartered by the State of New York and is accredited by the Middle States Association of Colleges and Schools. Drawing its student body mainly from the New York City metropolitan area, the College also enrolls a significant number of foreign students. Having an objective at its founding to provide higher education for young men of modest means from Brooklyn, it continues to attract the majority of its students from comparable economic circumstances.

History

Early in 1858, the Right Reverend John Loughlin, first Bishop of Brooklyn, invited the Irish Congregation of the Franciscan Brothers to educate the boys of his diocese.

On September 16, 1858, the Brothers purchased a building at 300 Baltic Street and in the Fall of 1859 they opened St. Francis Academy, in which the College had its origin. In 1868, adjacent property was purchased and a new wing constructed to provide additional classrooms, a chapel and accommodations for boarding students. On June 2, 1868, the original foundation was incorporated by an Act of the Legislature under the title "The St. Francis Monastery" of the City of Brooklyn.

On May 8, 1884, by amendment to the Act of Legislature, 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 . . . they and their successors in office shall have the 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 Trustee of St. Francis College shall have the same power to confer diplomas, literary honors and degrees as is possessed by the Universities and College of this State. . . ."

The Bachelor of Arts degree was conferred for the first time in June, 1885, and the first Bachelor of Science degree was granted in June, 1892. The Bachelor of Business Administration degree was first conferred in June 1956.

In 1912 the College discontinued student facilities to meet the needs of expansion. Student living quarters were remodeled to provide additional science laboratories, a library, and lecture rooms. Space needs became even more acute, and in 1923, the Brothers appealed to the people of Brooklyn for help. The College building, formerly located at 35 Butler Street, was erected in 1926 as a result of this appeal.

In 1957 the original Act of Legislation incorporating "The St. Francis Monastery" of the City of Brooklyn was amended to remove its power to conduct an institution of higher education. The Trustees of St. Francis College then petitioned the Regents of the University of the State of New York for an absolute Charter which was granted on April 10, 1957. St. Francis College moved to its present location in 1960. Shortly after moving to Remsen Street, the College became a coeducational institution. Additional property was purchased on both Remsen and Joralemon Streets. The College expanded its facilities by erecting a science building, a physical education complex and a building to house the Franciscan Brothers and provide more space for faculty.

St. Francis observed its centennial in 1984. The many celebrations during the 1984-85 academic year emphasized the College's proud tradition and its ability to meet the challenges of each new era. Now in its second century, St. Francis College continues to provide students with the preparation they need to take their places as contributing members of society.

Philosophy

Legally the College is authorized to establish and maintain an institution of higher learning at the college level and to conduct courses of instruction in the liberal arts and sciences and business administration leading to the degrees of bachelor of arts (B.A.), bachelor of science (B.S.), bachelor of business administration (B.B.A.), associate in arts (A.A.), and associate in applied science (A.A.S.), respectively, with power in the corporation to confer said degrees, in course, and the honorary degrees of doctor of law (LL.D.), doctor of letters (Litt.D.), doctor of humane letters (L.H.D.), and doctor of commercial science (D.C.S.), in conformity with the rules of the Board of Regents of the University of the State of New York and the regulations of the Commissioner of Education for the registration of institutions of higher education.

St. Francis is an undergraduate institution whose essential aim is to provide a liberal education that is fundamental and thorough. With its programs and curricula firmly anchored to a core of liberal education, the College attempts to provide its students with the prerequisites for living a human life and a preparation for making a living in human society.

The commitment in all programs to liberal education is the source of the institution's coherence. Liberal education is the systematic cultivation of that which makes man excellent: his reason, and the freedom grounded in that reason. It consists in the formation of intelligence, of character, of taste. Thus a liberal education seeks to develop free and rational men and women who are concerned with the pursuit of knowledge, conscious of their moral, religious, and social obligations, and who grasp the value of their common human heritage. Such men and woman are best prepared to learn and master the special skills of the professional and business domains and to become competent, responsible, and mature citizens of a democratic republic.

As a result of its Franciscan heritage, St. Francis offers a liberal education enhanced by the ideals that inquiry into the natural world will discover traces of the infinite and that human work is an imitation of Divine work.

To achieve these objectives of quality education, the criterion of excellence in teaching and learning, in class and out of class, is taken seriously. St. Francis is a college community small enough to provide relationships that allow for genuine teaching and learning, yet large enough to have resources for significant contributions to the city, state, the nation, and indeed, given the number of its foreign students, the international community.

Goals and Objectives

The College aims to combine the ideals of liberal education with the practical concerns of service to the communities to which it is committed. As a consequence, it defines itself in terms of the following specific objectives.

- A. To provide undergraduate degree programs in the arts, sciences and professional fields leading to the bachelor's and the associate degrees. The programs are designed to serve the needs of students who seek careers immediately after graduation as well as those who are preparing to enter graduate school or professional training. The following aims are integral to each of the degree programs:
 1. To prepare its students to read, write, and speak effectively as befits liberally educated persons
 2. To acquaint its students by means of the Core Curriculum with fundamental areas of academic inquiry
 3. To deepen the students' knowledge, in a systematic fashion, of a major field of study.
- B. To promote the intellectual, social, emotional, and physical development of the students and to develop an understanding of the importance of religious values.
- C. To cultivate the ideal of scholarship as a distinct value.
- D. To serve the local community.
 1. by providing programs for those groups whose educational needs are not being met
 2. by providing cultural activities in which the community can take part
 3. by joining with outside agencies to improve the social, economic, and cultural environment of the area.

In an urban setting so largely characterized by impersonality and anonymity, St. Francis has in the past provided, and should strive to maintain, an association between students and faculty which is personal and friendly; its size permits it, and its commitment to liberal education requires it. St. Francis has resisted to a significant degree the careless winds of educational fashion. It has tried to respond to the need for meaningful change with an eye to the needs of its students and the requirements of its goals and objectives.

The test of a liberal education, whose aim is to nurture human excellence, is only partly what the student recognizes as worthy of pursuit; the other part is what the student learns to resist. The College ought to continue to cultivate this spirit of boldness and moderation in confronting the demand that it alter its constitutive

purpose of providing liberal education. This consideration accounts for the position that the study of philosophy occupies in the educational program of the College. The purpose of the required Core courses in philosophy is to develop in the student an awareness of basic conceptual alternatives and the foundations and implications of the various types of discourse. The function of these courses is not to indoctrinate with an ideology, but to be one of the primary instruments, together with the rest of the Core Curriculum, by means of which the College seeks to realize its goal of liberal education, the formation of minds capable of responsible intellectual self-determination. It is to be understood that these goals and objectives are conceived and articulated as both ideal and real, prescriptive as well as descriptive.

The preceding statement of general goals and objectives was approved by the faculty at a meeting on February 15, 1978 and subsequently approved by the Board of Trustees at its meeting of February 28, 1978.

Memberships and Affiliations

St. Francis College is chartered by the Legislature of the State of New York, and is accredited by the Regents of the University of the State of New York and the Middle States Association of Colleges and Schools. It is a member of the Association of American Colleges, the National Commission on Accrediting, the Commission on Independent Colleges and Universities, the Brooklyn Education and Cultural Alliance, the Association of Catholic Colleges and Universities, the Council for Advancement and Support of Education, the National Association of Independent Colleges and Universities, the American Assembly of Schools and Colleges of Business and the Middle Atlantic Association of Colleges of Business Administration.

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.

College Facilities

The St. Francis College campus consists of five interconnected buildings which provide instructional areas, library, student services, and office space for the College.

Arts Building

The seven-story Arts Building is served by four elevators. It contains a large cafeteria on the ground floor (to be renovated as a student center in the summer of 1986), 25 classrooms and 3 seminar rooms in which faculty and student meetings are also held. It also houses the offices of the College President, Vice-President—Financial Affairs, Vice-President—Dean for Student Affairs, Vice-President—College Relations, Vice-President—Academic Dean, Admissions Directors, Adult Services, Counseling and Career Planning Center, Financial Aid Advisors, Personnel Director, Registrar, Student Accountants, Student Activities, Health Service Nurse, Security and faculty members.

Science Building

This six-story structure is adjacent to the Arts Building on Remsen Street. An escalator and elevators provide access to both buildings. The Science Building houses nine classrooms. Its biology facilities comprise two laboratories for general biology, anatomy and physiology, one microbiology laboratory, one physiology laboratory, one genetics, embryology, histology and animal microtechniques laboratory, one radiation laboratory, an animal room with adjoining surgical room, and a greenhouse.

Chemistry facilities consist of four instructional laboratories, five instrumentation and/or balance rooms, two student/faculty research laboratories, one equipment stockroom, one chemical stockroom, one preparation room, one storage room, and one conference room.

One laboratory is provided for instruction in physics along with a preparation and equipment room and darkroom. The building also houses an earth science laboratory and equipment room, and a laboratory designed to support the experimental program in psychology.

Offices and research laboratories for the science faculty as well as offices for the mathematics and health science departments are located in the building. The Computer Center which provides support services for the College is located on the second floor. A microcomputer laboratory for student use is located on the third floor.

The office of academic support services is also located on the third floor. On the main floor are a large lounge and study area and Founders Hall, a multi-purpose auditorium and classroom facility which seats 300 people.

Residence Building

This building houses faculty offices and the Brothers' residence.

Physical Education Building

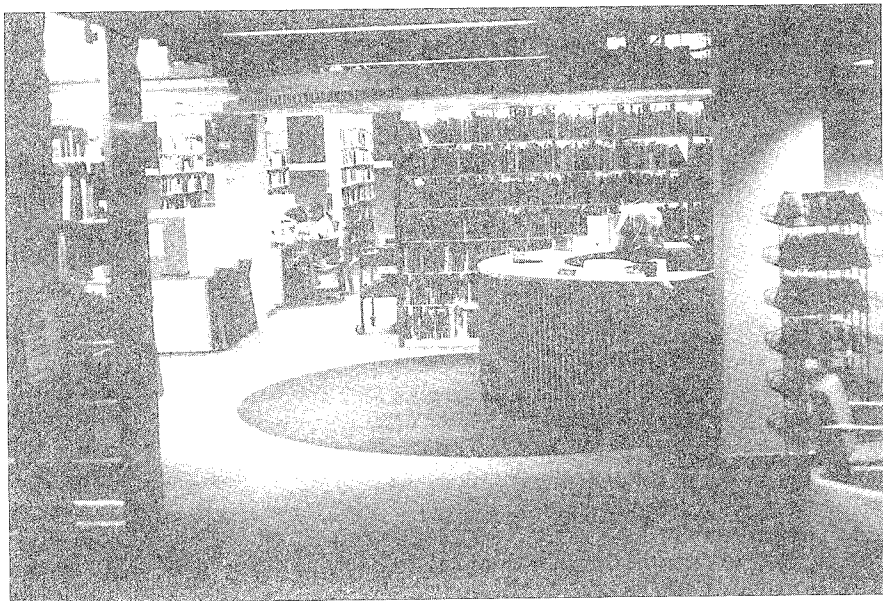
This building is located behind the Science Building and connects to it and to the Arts Building. It consists of a gymnasium where physical education courses are taught and which provides the court for men's and women's intercollegiate basketball and a wide range of intramural activities, an Olympic-size swimming pool, weight training room, auxiliary gymnasium office space, and roof recreation area.

McGarry Library

The McGarry Library underwent a two-million dollar renovation-expansion, which was completed in the winter of 1981-82. The Library houses in excess of 140,000 volumes, and more than 800 periodicals are currently received. Bound and unbound journals, microfilm, pamphlets and other materials are accessible for research and study. On line data-base searching is available.

The Library provides subject orientation for students as well as individual bibliographic consultations on term paper projects. It houses the Apollo II magnifier for the visually handicapped.

The Library is richly supplemented by other library facilities in the area. As a member of the St. Francis community, students are entitled to use libraries at LIU, Pratt, Polytechnic University, New York City Technical College, Medgar Evers College, Brooklyn College and St. Joseph's College.



The James A. Kelly Institute for Local Historical Studies

The James A. Kelly Institute for Local Historical Studies, named for the late Brooklyn Borough Historian, was created in 1973. It is housed in the basement of the Science building.

The Institute contains one of New York's largest collections of primary source records of local history, including original charters of the Dutch and English governors, Indian deeds, and town records.

The Congressman John Rooney, Congressman Eugene Keogh, and Alderman Peter McGuinness Collections, Francis Sinnott papers, and a number of political scrapbooks and memorabilia are preserved here. The papers of former City Councilman Tom Cuite, an SFC Alumnus, were recently added to the collection. The total collection of documents numbers more than three million items.

The Institute is open to the public, teachers and students at no charge.

Special Programs and Services

Federal Aviation Administration Cooperative Education Program

Students enrolled in the Aviation Administration or Aviation Business Studies Program are eligible at the end of their sophomore year to apply for positions in the Federal Aviation Administration Cooperative Education Program. A stringent selection process is conducted by the FAA. Successful candidates will be employed at FAA Air Traffic Control Facilities in the region. Upon completion of the two 26-week intern periods and graduation from St. Francis, the intern is offered full-time employment with the FAA as an air traffic controller.

Internship Opportunities

Excellent opportunities exist for paid and volunteer work experiences in a number of fields through various internship programs. Academic credit is often awarded by permission of department chairmen and the Academic Dean.

Some examples of intern programs are: the New York City Summer Management Intern Program, Public Interest Research Group Internships, Urban Fellows Program, New York City Transit Authority Intern Program, and New York State Assembly Session Internships.

Internships in industrial and public accounting which provide guidance and practical experience are also available to selected students.

Junior Year Abroad

At the end of their sophomore year, students may elect to study abroad for one year and to apply this work toward their St. Francis College degree.

Students may select a course and place of study from among many programs sponsored by international education agencies such as the Institute of European Studies or the International Education Exchange Service. They may also participate in the Inter-American Studies Program sponsored by the United States Government or other recognized educational institutions. Interested students should consult their department chairman and obtain program approval from the Office of the Academic Dean.

American Institute of Banking

St. Francis College accepts 32 semester hours of transfer credit upon successful completion of the Institute's Standard Program. These credits may be applied toward a Bachelor of Science degree in Accounting or Management or toward the Bachelor of Arts degree in Economics.

Continuing Education students who are applying American Institute of Banking credit towards their St. Francis degrees may be interested in the Bachelor of Science degree in Special Studies which provides flexibility for those who wish to develop their own programs.

The following credits are accepted for transfer:

All fundamental courses..... 18 semester hours
Free choice, any single option..... 14 semester hours

United States Army Reserve Officers' Training Corps Program

Qualified full-time students may participate either in the Army ROTC Program at Polytechnic University or in the Air Force ROTC Program at Manhattan College on a cross-enrollment basis. The two- or four-year program leads to a commission as a Second Lieutenant in the United States Army or the United States Air Force. Interested students should contact the Office of the Academic Dean of St. Francis College for further information.

Project Ahead

In conjunction with the United States Army, St. Francis College participates in a cooperative education program whereby qualified army personnel adopt St. Francis College as a "home" college of record and accumulate credits toward a regular degree program. The final 30 credits must be earned at St. Francis. Interested students should consult the Office of the Academic Dean for more information.

Microcomputer Center

The Microcomputer Center, Room 300S, is a college-wide resource for the use of computers across the curriculum. Its Digital Equipment Corporation Rainbow 100, Apple IIe, and IBM-PC microcomputers are available for students and faculty to use for all aspects of academic computing. The Center has software that allows students and faculty to perform word processing, create spreadsheets and data bases, program in BASIC and COBOL, participate in computer simulations, and explore the myriad uses of computers. Books and periodicals on academic computing are readily available, and the Center's staff provides support in using the facility for coursework, personal enrichment, and student activities.

Administrative Computer

St. Francis College has a PRIME 1450 Minicomputer which is directly connected to several administrative offices. It handles transactions on an "on-line" basis. Modifications made in one department appear as changes in the data base, which is shared by all computer users. Although its primary function is to maintain the College's active and historical information, the PRIME 1450 is capable of providing other services with the aid of its peripheral equipment that includes a modem, a magnetic tape drive, two line printers and a letter-quality printer.

Identification Cards

In the interest of increasing the safety and security of the campus, the College requires that all members of the academic community have a properly validated photo identification card. Students must carry the card at all times and present it when requested by a College official. Presentation of the photo I.D. card is required in order to pick up refund checks at the Controller's Office. Periodic I.D. card checks are conducted.

New students may obtain the I.D. card by reporting to the office of Student Activities (1M) after the first week of the Fall and Spring semester, according to the schedule publicized in the College. Continuing students require a validation sticker for each semester. To obtain the sticker, students must present their computer printout of courses stamped by the Controller's Office which they receive during registration. Validation stickers may be obtained in the Office of Student Activities on 1M.



ADMISSIONS POLICY

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.

The College admits individuals of any race, religion, national or ethnic origin to the rights, privileges, programs and activities offered students at the school. It does not discriminate on the basis of sex, race, religion, national or ethnic origin, or handicap in the administration of educational or admissions policies, scholarships and loan programs, or other college-based programs.

Students who desire admission should apply to the Office of Admissions for an official application form. The completed form should be returned to the same office.

Requirements for Admission to the Freshman Class

I. Recent High School Graduate:

Applicants seeking an associate or bachelor's degree who were graduated from high school within the past calendar year must present a transcript from an approved secondary school. All applicants are encouraged to take the Scholastic Aptitude Test while enrolled in secondary school and to submit their scores to the College. Those who have not taken the SAT while in high school will be afforded an opportunity to do so by the College prior to their first registration for classes. It is necessary that an SAT profile for each enrolled student be on file at the College for research and placement purposes. An SAT bulletin containing application procedures, a list of examination centers and test dates may be obtained from the College Entrance Examination Board, P.O. Box 592, Princeton, New Jersey 08540. Applicants seeking an associate or bachelor's degree should have completed a minimum of sixteen (16) academic high school units, including four years of English, three years of history/social science, two years of mathematics and one year of natural science. Applicants seeking a bachelor of science degree should have completed 11th-year high school mathematics or its equivalent.

II. Non-recent High School Graduates:

Applicants seeking an associate or bachelor's degree who have completed high school more than one (1) calendar year prior to their intended semester of first registration must be interviewed by the Admissions Office, submit official high school/college transcripts, appropriate letters of recommendation, and take College Placement Tests prior to enrollment.

Those students seeking an Advanced Business Certificate must present proof of high school graduation prior to completion of a certificate program.

III. High School Equivalency Applicants:

Applicants seeking an associate or bachelor's degree who have a recognized High School Equivalency Diploma should present a transcript of the New York State (or other) General Educational Development (GED) test scores. The total score must be at least 250, with a minimum score of 45 on each individual part of the test.

IV. Foreign Language Students:

Applicants seeking an associate or bachelor's degree, whose native language is not English, must present the results of the Test of English as a Foreign Language (TOEFL) and must achieve a score of at least 500 on the test.

Foreign students who seek admission should file an application; transcript of high school record, and proof of high school graduation. Because of the diversity of documentation, students must contact the Admissions Office to insure that all appropriate credentials will be filed well in advance of their anticipated entrance date. (The College is authorized by Federal Law to enroll non-immigrant aliens for the purpose of obtaining a degree).

V. Other Applicants:

Applicants seeking an associate or bachelor's degree program who do not meet the above-mentioned criteria may be admitted to St. Francis College after review and assessment of their educational background. The number of such students admitted and the conditions for admission are strictly controlled.

VI. Non-Matriculated Students:

Applicants who are not seeking associate or bachelor's degrees may apply for admission. Acceptance will be on a space-availability basis, after an assessment of the applicant's ability to do college-level work.

Requirements for Admission with Advanced Standing

I. Transfer Applicants

The decision to admit to advanced standing and the determination of transfer credit to be allowed rests with the staff of the Admissions Office.

A student who has attended another college or university must submit an official transcript showing courses and grades, a catalogue from each institution attended which has been marked to indicate courses for which credit is sought, and a statement from an administrative officer that the applicant has been honorably dismissed.

The student must also complete an application form and submit a secondary school transcript.

Credit will be allowed only for courses appropriate to the curriculum selected at St. Francis College, and where records show course grades equivalent to or higher than the St. Francis grade of C.

II. Advanced Placement

Students who have completed a college-level course in high school may qualify for advanced placement by achieving an acceptable score on the Advanced Placement Test of the College Entrance Examination Board. Questions regarding advanced placement should be addressed to the Office of Admissions. Information about Advanced Placement Tests may be obtained from the Educational Testing Service, P.O. Box 592, Princeton, New Jersey 08540.

III. Credit Through the College Level Examination Program

Advanced standing with credit will be granted upon successful completion of the College Level Examination Program, General Examination or Subject Examination of the College Entrance Examination Board, Princeton, N.J.

Credit is also granted for satisfactory grades earned through the completion of Regents College Examinations (R.C.E.'s) conducted by the New York State Education Department.

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

IV. Credit for Armed Forces Veterans

Honorably discharged veterans who have completed 18 months or more of active service in the Armed Forces of the United States may be granted up to 10 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 Office of the Academic Dean.

Student Classification

Regular or Matriculated Students—Those who have fulfilled enrollment requirements and are pursuing a degree program.

Regular students are further classified as follows:

Lower Division:

FRESHMEN—Those who have earned fewer than 28 credit hours.

SOPHOMORES—Those who have earned 28 to 59 credit hours.

Upper Division:

JUNIORS—Those who have earned 60 to 89 credit hours.

SENIORS—Those who have earned 90 credit hours.

Non-matriculated Students—Those who are enrolled in courses, but who have not fulfilled all requirements for admission to a degree program.

Transfer Students—Those who have withdrawn from another college or university and have been admitted to St. Francis College to complete their course of study, and holders of associate degrees earned at accredited two-year colleges.

Transient Students—Those whose academic work at St. Francis College will be transferred to another college or university in which they are regularly enrolled.

Special Students—Those who do not wish to complete a degree. They may be admitted with permission, but must submit credentials for all preparatory work and may pursue only those studies for which they are qualified.

TUITION AND FEES

The Trustees of St. Francis College exert every effort to keep tuition costs as low as is possible consistent with sound educational policy. The Trustees reserve the right to make changes in tuition and fees when deemed necessary.

Tuition

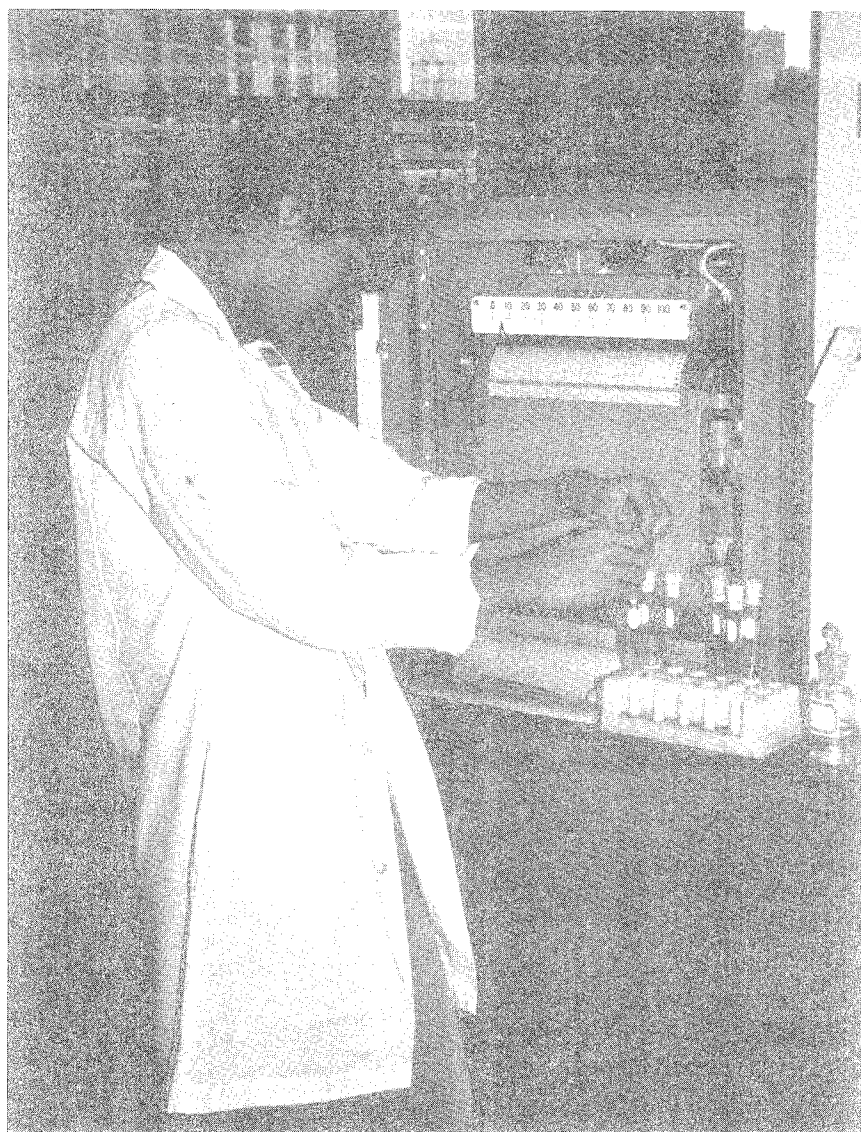
Per Credit	\$142.00
Per petitioned credit for experiential learning	47.00
For non-credit course:	
MAT050, Algebra for Managerial Science	402.00
MAT070, Algebra and Trigonometry for Science Majors	536.00
Per laboratory hour for earth science, physics, biology, and chemistry courses	142.00
(effective for all new and readmitted students and all students who have not been in continuous enrollment at St. Francis College since the Spring/Summer 1983 term)	

Regular Fees

Application	20.00
Matriculation (payable only once)	25.00
Preregistration (creditable towards tuition costs for semester of admission acceptance)	55.00
Readmission	20.00
Service, per term	
Fall and Spring	
for full-time students (enrollment for at least 12 credits or the equivalent)	50.00
for part-time students (enrollment for less than 12 credits, excepting students only registering for maintenance of matriculation)	20.00
Summer session—all students	20.00
Student Activities, per Fall and Spring term	25.00
(applicable only to full-time [enrollment for at least 12 credits or the equivalent] students taking 50% or more of their courses before 6:00 p.m.)	

Laboratory Fees

Science laboratory fee applicable only to students who have been in continuous enrollment at St. Francis College since the Spring/Summer 1983 term, per lab hour	25.00
Communications laboratory fee, per course:	
COM308, Television Studio Production	165.00
COM401, Basic Film and Video Production	100.00
COM402, Advanced Film and Video Production	100.00
Computer laboratory fee, per course	25.00



Special Fees

Change of Program (change of major, degree, composite record, etc.).....	10.00
Change of Registration	5.00
Graduation	
Associate's Degree.....	30.00
Bachelor's Degree.....	50.00
Certificate Program	20.00
Late Registration	75.00

Life Experience Evaluation (applicable when the student accepts the credit assigned)	500.00
Locker Rental	5.00
Maintenance of Matriculation (applicable per term for matriculated [degree candidates] students if not enrolled for any coursework, excepting Summer)	15.00
Placement Credentials (first two provided at no fee)	10.00
Re-evaluation of Transfer Credit.....	10.00
Returned Check Surcharge	25.00
Special Examination	5.00
Transcript, per copy	
for regular processing.....	2.00
for special handling (immediate, same day processing)	5.00

Payment Procedure

All charges for tuition and fees are payable at the time a student registers for courses. During regular registration periods, payments may be processed by cash, check, money order, and MasterCard or Visa credit cards. During periods of late registration and change of program registration only cash, certified check, bank cashier's check, or MasterCard/Visa credit card payments will be honored. Additionally, if any check payment, upon presentation by the College, is dishonored and returned unpaid, a \$25 surcharge will be imposed and all subsequent payments to the College will be required to be by cash, bank cashier's check, certified check, or authorized MasterCard/Visa credit card.

A student is liable for all charges for courses for which he or she registers. If there is a change in the original registration during the first week of classes, the change must be approved by the Registrar's Office and full payment submitted to the Student Accounts Office. The payment of any additional tuition and/or fees incurred by the student as a result of a registration change is due on the day of the change.

A transcript of a student's record or certification of enrollment will not be issued by the Registrar's Office until a student's financial obligations to the College have been fully paid. No student will be certified for a degree or a certificate until all financial matters with the College have been satisfied.

St. Francis College does not offer a deferred or installment plan. The College does extend to students the courtesy of participating in the budget payment plan administered by the Academic Management Services, Inc. Brochures outlining the AMS plan, which requires subscription and payment commencing in May preceding the academic year of enrollment, are available from the Student Accounts Office.

Refund Policy

The following fees are non-refundable: application, change of program, change of registration, late registration, life experience evaluation, locker rental, preregistration, readmission, re-evaluation of transfer credit, returned check surcharge, special examination, and transcript.

When circumstances require a student to withdraw from the college or from one or more courses, it is necessary to file official written notification of withdrawal with the Registrar's Office. Normally, a student is expected to withdraw in person by completing a withdrawal form furnished by the Registrar's Office. If any portion of the tuition/fees is refundable (as detailed below), the date the official withdrawal notice is filed with the Registrar's Office will determine the refundable amount. If conditions preclude the student from withdrawing in person, a letter bearing the student's signature and requesting withdrawal should be forwarded to the Registrar's Office; in this instance, the postmarked date of the withdrawal letter will determine the official withdrawal date to which the refund policy is applied.

The following fees are refundable if assessed for a semester from which official withdrawal notice has been filed with the Registrar's Office prior to the opening date of the term as specified in the College's academic calendar: maintenance of matriculation, matriculation, service, student activities, laboratory fees as categorized above.

A refund of tuition for official course withdrawal is subject to the following schedule:

Fall and Spring term

withdrawal prior to the opening date of the term as specified in the College's academic calendar.....	100%
withdrawal during the first two weeks of the term	80%
withdrawal during the third week of the term.....	60%
withdrawal during the fourth week of the term	40%
withdrawal during the fifth week of the term	20%
withdrawal after the fifth week of the term	None

Summer and Intersession

withdrawal prior to the opening date of the session as specified in the College's academic calendar.....	100%
withdrawal during the first two days of the session	80%
withdrawal on the third day of the session.....	60%
withdrawal on the fourth day of the session	40%
withdrawal on the fifth day of the session	20%
withdrawal after the fifth day of the session	None

In order to initiate a request for a refund, a student must complete a refund application form at the Student Accounts Office, or apply by mailing a written request bearing the student's signature to the Student Accounts Office. It is necessary to allow a minimum of five business days for processing the refund application and for preparing the refund check which may be picked up at the Student Accounts Office, upon presentation of the validated St. Francis College student identification card, or which, upon request, may be mailed to the student. Refunds of financial aid awards, student loans, etc. are not refundable until the actual funds have been received by the College and student eligibility for the funds has been determined. In no case will a refund be granted to a student who is dismissed or who withdraws while under disciplinary action.

A student who feels that his or her individual circumstances warrant an exception to the College's refund policy may address a written appeal for special consideration to the Director of Student Accounts. The director's decision is subject to appeal to the Vice-President—Financial Affairs.

FINANCIAL AID

St. Francis College has a comprehensive financial aid program, designed to insure that no otherwise-eligible student is prevented from attending the College solely because of inadequate finances. Eligible students may be offered a financial aid "package" which consists of some combination of scholarships, grants, loans, and student employment.

Students who wish to be considered for such aid must file the Financial Aid Form (FAF) of the College Scholarship Service, as well as the appropriate College forms. For the academic year **1987-88**, it is recommended that incoming freshmen apply by **February 15, 1987**. Currently enrolled students should apply by **April 15, 1987**. Students who apply after these dates will be considered as long as funds remain available. An application is completed annually and a new application is required each year for renewal of any award.

Students who desire either an application form or a brochure detailing the kinds of financial aid and the process by which one applies for them should contact the Office of Financial Aid.

General Eligibility Requirements

In general, to be considered for financial aid awarded by St. Francis College, a student must:

- be accepted for admission to the College
- have completed matriculation requirements for a degree program
- be enrolled at least half-time in a program of study
- be in good academic standing and be making satisfactory progress toward degree requirements
- be a U.S. citizen or permanent resident

Financial Aid Programs Available at St. Francis College

To be considered for any of the following programs a student must file the Financial Aid Form (FAF) along with all forms and documents required by the College.

Grants:

- Pell Grants, formerly known as Basic Educational Opportunity Grants (BEOG)
- Supplemental Educational Opportunity Grants (SEOG)
- State Aid: New York State residents may apply for the Tuition Assistance Program, Child of Deceased or Disabled Veteran Award, Vietnam Veterans Award, Aid for Part-Time Study, and other New York State Programs
- St. Francis College Grant-in-Aid
- St. Francis College Athletic Grant-in-Aid

Loans:

- National Direct Student Loans (NDSL)
- Guaranteed Student Loans (GSL)

Student Employment:

- College Work-Study Program (CW-SP)
- Student Assistant Program. The number of students employed under this program is limited.

Veterans:

Veterans' benefit forms are processed by the Office of Financial Aid.

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.

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.

The Right Reverend Msgr. Daniel U. Hanrahan 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.

Chase Manhattan Bank, N.A. Scholarship. This scholarship was awarded in January, 1985, to a freshman who had demonstrated exceptional academic achievement and showed promise of continued success, as assessed by the secondary school average and performance on the Scholastic Aptitude Test. The recipient will receive up to \$1,000 a year for four years, provided that s/he makes satisfactory progress toward his or her degree and maintains a minimum quality-point index of 3.0. In January, 1989 this will be awarded as a full scholarship to cover tuition and fees for four years of study (less PELL, state aid and any other "portable" financial aid for which the student is eligible).

Manufacturers Hanover Trust Scholarship. This scholarship was awarded in September, 1984 to a freshman who had demonstrated exceptional academic achievement and showed promise of continued success, as assessed by the secondary school average and performance on the Scholastic Aptitude Test. The recipient will receive up to \$1,000 a year for four years, provided that s/he makes satisfactory progress toward his or her degree and maintains a minimum quality point index of 3.0. In September, 1989 this will be awarded as a full scholarship to cover tuition and fees for four years of study (less PELL, state aid and any other "portable" financial aid for which the student is eligible).

Dr. Scholl Foundation Scholarship. This scholarship was awarded in January, 1985 to a freshman who had demonstrated exceptional academic achievement and showed promise of continued success, as assessed by the secondary school average and performance on the Scholastic Aptitude Test. The recipient will receive up to \$2,000 a year for four years, provided that s/he makes satisfactory progress toward his or her degree and maintains a minimum

quality-point index of 3.0. In January 1989 this will be awarded as a full scholarship to cover tuition and fees for four years of study (less PELL, state aid and any other "portable" financial aid for which the student is eligible).

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

John Fitzgerald Kennedy Scholarship. Established in memory of the late President by the student government, this scholarship is granted to three senior students each year, based on combinations of need, scholastic achievement, and extracurricular activities.

McFague Scholarship. Established by Colonel Hugh McFague in memory of his parents Bridget T. and Patrick J. McFague. The scholarship was first awarded in January 1986 to a student who had demonstrated exceptional academic achievement and showed promise of continued success, as assessed by a secondary school average and performance on the Scholastic Aptitude Test. The recipient receives a full scholarship to cover tuition and fees for four years provided that s/he makes satisfactory progress toward his or her degree and maintains a minimum quality point index of 3.0. In January, 1990, this will again be awarded as a full scholarship to cover tuition and fees for four years of study (less PELL, state aid and any other "portable" financial aid for which the student is eligible).

William Randolph Hearst Scholarship. Funded by the William R. Hearst Foundation, this scholarship will first be awarded in Fall 1986 to a student who has demonstrated exceptional academic achievement and showed promise of continued success, as assessed by the secondary school average and performance on the Scholastic Aptitude Test. The recipient will receive a half scholarship to cover tuition and fees for four years, provided that s/he makes satisfactory progress toward his or her degree and maintains a minimum quality point index of 3.0. In the Fall of 1990, this half scholarship will again be awarded.

John and Mary McCarthy Scholarship. This scholarship is funded by John McCarthy (class of 1951) and his wife, Mary. It will first be awarded in Spring 1987 to a student who has demonstrated exceptional academic achievement and showed promise of continued success, as assessed by the secondary school average and performance on the Scholastic Aptitude Test. The recipient will receive a full scholarship to cover tuition and fees for four years, provided that s/he makes satisfactory progress toward his or her degree and maintains a minimum quality point index of 3.0. In Spring 1991 this will again be awarded as a full scholarship to cover tuition and fees for four years of study (less PELL, state aid and any other "portable" financial aid for which the student is eligible).

Principals' Scholarships. These scholarships are awarded annually to one graduate of the St. Francis Preparatory School and one from Bishop Ford High School, who are nominated by their respective principals. The scholarship is a full tuition-and-fee award, less PELL, state aid, and any other "portable" financial aid for which the student is eligible. The award is for four full years of study, provided that the recipient makes satisfactory progress toward his or her degree and maintains a quality-point index of at least 3.0.

Presidential Scholarships. These scholarships are awarded to a select group of entering students who have demonstrated exceptional academic achievement and show promise of continued success, as assessed by a secondary school average and performance on the Scholastic Aptitude Test. The scholarships are full tuition-and-fee awards, less PELL, state aid, and any other "portable" financial aid for which the student is eligible. The award is for four full

years of study, provided that the recipient makes satisfactory progress toward his or her degree and maintains a quality-point index of at least 3.0.

The Brother Jerome Reese, O.S.F. Memorial Scholarship. Established in memory of a former president of St. Francis College, this is awarded as a Presidential Scholarship.



Academic Eligibility for Receipt of Financial Aid

Students must satisfy two academic requirements in order to be eligible for financial assistance. They must pursue a program of study and make satisfactory progress toward the completion of the program's academic requirements. Both requirements must be met for each semester of study for which financial aid is received.

Program pursuit is defined by the number of courses to be completed (with a passing or failing grade) while taking a full-time courseload. (A full-time courseload is equivalent to 12 or more credits.) Students must attain such a grade in 50% of the minimum full-time courseload in the first year for which an award is made. This percentage increases to 75% in the second year and to 100% in the third year for which awards are made.

Satisfactory academic progress is defined by the total number of college credits earned. Students are not expected to have earned any college credit before receiving their first financial aid payment. Subsequent payments, however, will be awarded only if students meet specified credit and grade-point index criteria, which are presented in the chart below. Both of these requirements became effective September 1, 1981.

In extraordinary circumstances, a student may be granted a waiver of program pursuit and satisfactory progress requirements. This is available only once during a student's entire undergraduate career. If a waiver is granted, the student must use the semester for which it is given to advance to the level necessary to make him or her eligible for the receipt of further financial aid. The waiver does not change the total number of semesters for which a student is eligible to receive aid. (New York State Awards, for instance, are limited to not more than eight full semesters.)

Standards of Satisfactory Progress for Eligibility for Financial Aid

BEFORE BEING CERTIFIED FOR THIS SEMESTER.....	First	Second	Third	Fourth	Fifth	Sixth	Seventh	Eighth	Ninth	Tenth
A STUDENT MUST HAVE ACCRUED AT LEAST THIS MANY CREDITS	0	3	9	21	33	45	60	75	90	105
WITH AT LEAST THIS QUALITY- POINT INDEX.....	0	1.00	1.20	1.30	1.40	1.50	1.60	1.70	1.80	1.90
DURING THIS PAYMENT PERIOD A STUDENT MUST EARN	6	6	9	9	12	12	12	12	12	12
A, B, C, D, F, or P GRADES IN THIS NUMBER OF CREDIT HOURS										

Only students in five-year programs approved pursuant to Section 145-27 of the Regulations are eligible for more than eight semesters of undergraduate award payments.

ACADEMIC POLICIES

Credit Hours

One credit hour represents one hour of regular class participation in a lecture or two or more hours in a laboratory session each week.

Credit Hour Loads

Full-time students may not carry fewer than 12 nor more than 18 credit hours a semester. Permission to take more than 18 hours may be granted by the Vice-President—Academic Dean. A day student on probation may not take more than 15 hours. An evening student on probation may not take more than six hours. Evening students may not carry more than 12 hours per semester without permission of their advisor.

Placement Testing

St. Francis College requires all full-time, new students to be tested in English and mathematics. The test results are utilized for advisement and placement of students in appropriate courses. For further information concerning time and location of testing, please consult the Admissions Office and/or the Office of Academic Support Services.

Registration Procedure

Registration is contingent upon a record of satisfactory grades for the previous semester.

Students are required to have their course selections for the following semester approved by their respective advisors during the advisement period.

Final registration days are indicated on the College calendar. Any changes in the course program outlined during the advisement period must be approved by the advisor at the time of final registration.

Registration will not be complete until the payments required by the Student Accounts Office have been made. Students may not report for any course for which they have not registered. They must attend the section selected unless permission has been obtained from the Registrar to change from one section to another. They may not register for a course unless all prerequisites have been satisfied.

Late Registration

Enrollment after the designated registration days will be permitted only with the consent of the Registrar and only for a satisfactory reason. Late registrants will be charged a fee of \$75.00, and will be held responsible for all absences caused by late registration.

Withdrawal from a Course

A student withdrawing from a course must complete a special form in the Registrar's Office. An automatic grade of "W" will be given to the withdrawn student before the first Monday in December during the Fall semester and before the first Monday in May during the Spring semester and before the fifth week during the Summer semester. The date of withdrawal is the day the student informs the Registrar's Office.

Attendance

Generally, when a student is absent for more than 10 percent of the total class meetings of a course, he or she is subject to a Grade of F for excessive absences.

Seniors with a 2.0 cumulative index or better may be entitled to privileged attendance. This will be granted at the discretion of the individual instructor and such policy will be announced at the first class meeting.

Grades

Final grades reflect the combined results of class work and examinations. They are computed according to the following percentage scale:

A	90-100	
B	80- 90	W—Withdrawal
C	70 79	H—Honors
D	60 69	P—Passing
F	below 60	

Pass-Fail Courses

Any student studying a foreign language on the 100 level (101-102; 103-104) may elect to take that course on a pass-fail basis.

Any student taking HS 100A, HS 100B/PE 100A or PE 100(B-H) may elect to take those courses on a pass-fail basis.

Juniors and seniors who are not on probation may elect one elective course each term to be recorded on their permanent record on a pass-fail basis. This privilege may be used for a maximum of four terms; only one elective course may be selected each term. Courses required in the core curriculum or major department may not be selected for pass-fail status.

The student must designate the course which he or she wishes to take pass-fail on a special form provided by the Registrar's Office no later than the end of the fourth week of the school term (second week of summer session). This privilege does not excuse students from the required work of the particular course. Once the request is submitted, it may not be revoked.

Report of Grades

As soon after each term as all grades have been reported and recorded, students will receive a report of their grades. This report should be taken to each conference with the student's advisor.

Appeal of Grades

A request for a change of grade must conform with the procedures established by the Faculty Academic Standards Committee and ratified by the faculty. Students are referred to the appeal procedure outlined in the current edition of *The Cord*, the student handbook.

Quality Point Index

Scholastic achievement is recorded by means of quality points. Points are assigned as follows for each credit hour completed:

Grade A	(90-100)	4.0 points
Grade B	(80-89)	3.0 points
Grade C	(70-79)	2.0 points
Grade D	(60-69)	1.0 point
Grade F	(below 60)	no quality points

The Quality Point Index, QPI, is obtained by (1) multiplying the credit value of each course (whether passed or failed) by the number of points that correspond to the grade earned, (2) adding all of the resulting quality points together and (3) 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 index provided the student has filled a "Repeat Course Form."

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

Honors

Each semester a list of honor students is published by the Vice-President—Academic Dean. This list recognizes students' academic achievements and includes those students who have achieved a Quality Point Index of 3.0 or better and have carried the following number of credit hours:

- Full-time — 12 or more credit hours.
- Part-time — 9 or more credit hours.

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

Course Repetition

Students must repeat any required course which they have failed, the next semester it is offered.

Written approval of the department chairman is required before a student can receive credit for a major field course completed with a D grade.

Under a special faculty ruling, students may not expect to receive a passing grade in any course in which they fail to maintain standards of good English in essays, examinations, and other written requirements.

Probation

Probation indicates that a student's academic work is below the expected standard. It is determined as follows:

Freshmen (fewer than 28 credit hours completed) will be placed on probation if their QPI is below 1.50.

Sophomores (28 to 59 credit hours completed) will be placed on probation if their QPI is below 1.75.

Juniors (60 or more credit hours completed) will be placed on probation if their QPI is below 2.0.

A QPI of 2.0 is required for graduation.

No student may remain on probation for more than two consecutive terms.

Any student may be subject to academic dismissal at any time for poor academic standing.

Withdrawal from College

Students obliged to withdraw from the College should notify the Registrar's Office for further instructions.

Courses at Other Institutions

The College does not grant permission to pursue courses at other institutions except when a required course is not being offered during the semester at St. Francis College. When such permission is granted, the combined programs may not exceed 18 credit hours per semester. Permission may be granted to attend the summer session at another institution provided that the courses sought are required and are not being offered at St. Francis College. In no case may a student take a total of more than six credits during a five-week summer session. Permission may be granted to take courses at another institution under the following conditions only:

1. The student has not entered senior year.
2. The student has a Quality Point Index of 2.0.
3. Written approval for the required courses has been granted by the chairperson of the department concerned and the Vice-President—Academic Dean.
4. Official permission of the Vice-President—Academic Dean has been obtained before the end of the preceding semester.

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

Official Bulletin Boards

The official bulletin boards, located at the main entrance of the Science Building, and on each floor of the Arts Building near the elevators, carry announcements of interest to the entire student body, to certain groups of students, or to individuals. These announcements may be changes in schedule, revisions of rules and regulations, calls for students to appear at one of the administrative offices, etc. Students are held responsible for reading these bulletin boards, and are obliged to acknowledge announcements pertaining to them within 24 hours after such announcements are posted.

REQUIREMENTS FOR DEGREES

The graduation requirements of the College, as published in the catalogue in effect at the time of the student's initial enrollment are those which must be met for the completion of a degree program.

Subsequent changes in degree requirements, as published in the catalogue or amended by the faculty, may be substituted at the option of the student. (Students who withdraw and then re-enter are responsible for graduation requirements as published in the catalogue at the time of re-entrance.)

Department chairmen have authority to waive or provide substitute course work for departmental requirements. Only the Office of the Academic Dean has the authority to waive or provide substitute course work for core curriculum requirements.

A candidate for a degree must complete the required courses as outlined in his or her respective curriculum and have a cumulative index of at least 2.0.

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.

Core Curriculum

The following courses must be completed by all students in **baccalaureate degree programs** with the exception of Aviation Business Studies Majors, Special Studies Majors and Health Care Management Majors:

Core Courses	Credits
Communications 203	3
English 103*	3
English: Literature Course**	3
Fine Arts 401; 402	6
Natural Science or Mathematics	6
Philosophy (courses to be taken in sequence)	9
Three elective credits in Liberal Arts	3
History 201	3
Sociology 203	3
Religious Studies (Choose one course from: 101; 202; 203; 204; 205; 212; 234)	3
Total Core Credits	42
Total Degree Credits	128

* Students who achieve a superior score on the placement test or who meet other criteria established by the English Department may be exempt from the English 103 requirement and substitute another English course (exclusive of English 101).

The three elective credits in Liberal Arts may not be selected from these areas: accounting, aviation, business law, business management, criminal justice, education, electronic data processing, health care, or physical education. Conversational Spanish is recommended to teacher training students.

The philosophy sequence consists of one 100 course, one 200 course, and one 300 or 400 course. PHI 114, 203, 403, are recommended as the philosophy sequence for teacher training students.

Students majoring in **Aviation Business Studies, Health Care Management or Special Studies** are required to complete the following Core Curriculum.

Core Courses	Credits
Communications 203.....	3
English.....	3
Fine Arts.....	3
History 201.....	3
Philosophy.....	3
Science or Mathematics.....	3
Sociology 203.....	3
Total Core Credits.....	21

The following courses constitute the Core Curriculum for all students in **associate degree programs**.

Core Courses	Credits
Communications 203.....	3
English 103.....	3
English Literature Course**.....	3
Fine Arts.....	3
Science or Mathematics.....	6
Philosophy.....	6
History 201.....	3
Sociology 203.....	3
Total Core Credits.....	30

** In satisfying the Core Curriculum, English 200-level literature courses are designed to meet the needs of the majority of students. However, students with a superior background in English may select from among the 300/400-level courses.

Designating a 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 by the end of the sophomore year. Students are responsible to their major department for advice on planning their registration programs.

Teacher Training

Candidates for the B.A. degree in English or Social Studies and the B.S. degree in Mathematics may elect Teacher Training for the Elementary School (K-6), the Secondary School (7-12), or Special Education.

Candidates for the B.S. degree in Accounting and Business Practice or Biology, may elect Teacher Training for the Secondary School (7-12). Candidates for the B.S. degree in Physical Education are in the Teacher Training Program (K-12).

Major Fields of Study

St. Francis College awards the following undergraduate bachelor degrees:

Bachelor of Arts (B.A.) with majors in:

- Communications
- Economics
- English
- History
- Political Science
- Psychology
- Social Studies
- Sociology

Bachelor of Science (B.S.) with majors in:

- Accounting
- Accounting and Business Practice
- Aviation Administration
- Aviation Business Studies
- Biology
- Bio Medical Science (preparatory for New York College of Podiatric Medicine)
- Health Care Management
- Health Services Administration
- Management
- Mathematics
- Medical Technology
- Physical Education
- Special Studies

The College awards the following associate degrees:

Associate in Applied Science (A.A.S.) in:

- Business Administration
- Criminal Justice

Associate in Science (A.S.) in:

- Electronic Data Processing

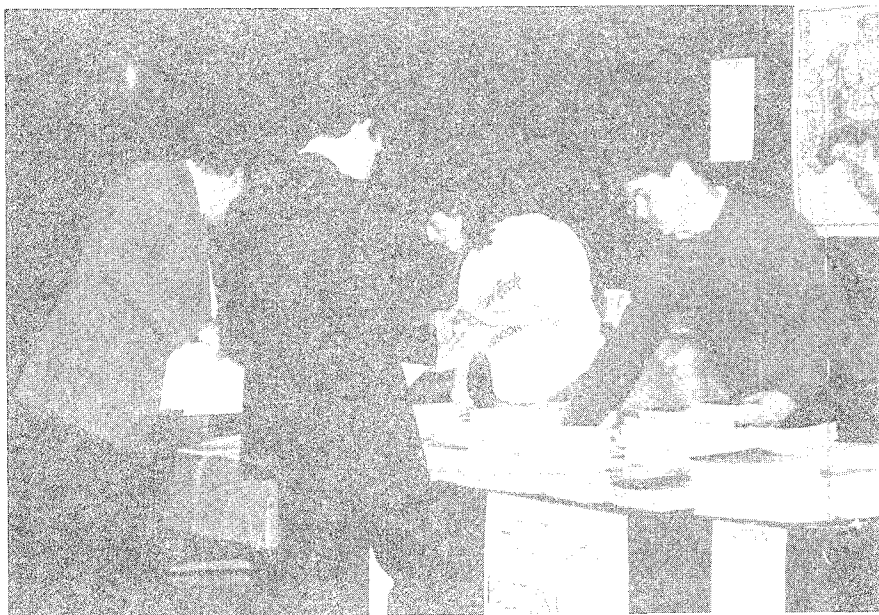
Change in Degree Program

Students who wish to change their major field of study must obtain permission first from the chairman of the department in which they wish to enroll and then from the Vice-President—Academic Dean. Change-of-major forms may be obtained in the Registrar's Office.

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 Vice-President—Academic Dean. If a conference is necessary, an appointment will be arranged.

All summer courses are open to students in good standing, regardless of their status during the regular academic year.

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



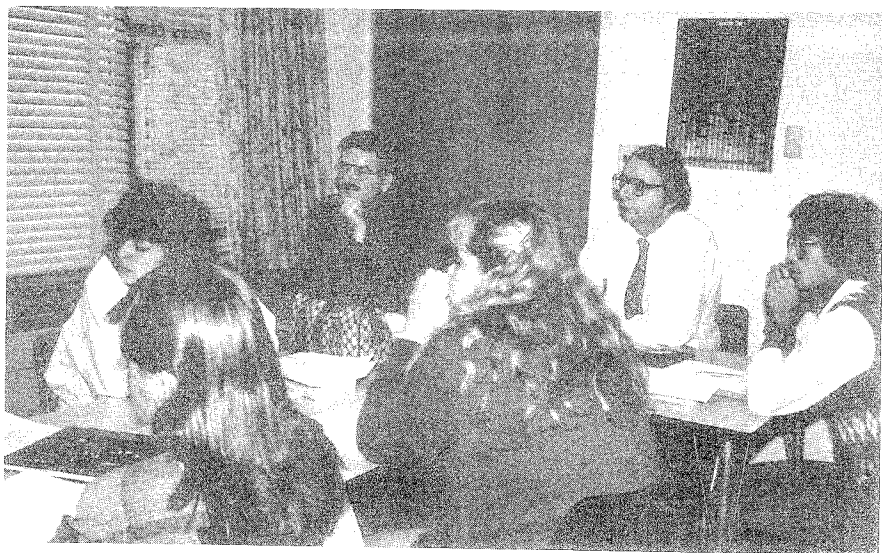
Minor Fields of Study

In the interest of achieving an additional dimension of educational depth, students who so desire may select a set of elective courses, preferably in a subject area not related to the major field of study, as a minor concentration. Minor concentrations are noted on students' transcripts as a way of recognizing that they have, in addition to the required major program, also concentrated to a lesser degree in one or more additional areas.

St. Francis College offers the following minor fields of study:

- Accounting
- Biology
- Chemistry
- Economics
- English
- French
- Health Administration
- Health Science
- History
- Mathematics
- Philosophy
- Physical Education (3 programs)
- Political Science
- Psychology
- Religious Studies
- Sociology
- Spanish

Note: In accordance with the College's standard practice, courses leading to a minor concentration are subject to cancellation in cases of insufficient enrollment.



The Honors Program

The Honors Program at St. Francis College offers the gifted student an opportunity to enroll in special interdisciplinary seminars and to do research under the direction of distinguished professors. In their Honors seminars the students have the opportunity to do primary research appropriate to the undergraduate level.

To qualify for the Honors Program, students must have and maintain an index of 3.5. Qualifying students will be invited to join at the end of their freshman year. Students may also enter at the end of their sophomore year. In addition to invitations extended to qualified students, any student may apply for admission into the program, providing s/he meets the criteria established. A student's continuance in the program shall be reviewed at the end of each academic year. The minimal requirement will be maintenance of the 3.5 index plus satisfactory performance in Honors courses and projects.

The chief form of recognition for graduates of the Honors Program shall be the degree with notation of Honors, awarded at graduation. Transcripts shall also bear this designation, and special recognition shall be given at commencement exercises. The requirements for a degree with Honors shall include the following: (1) Participation in and completion of four one-semester Honors seminars (2) Participation in and attendance at one cultural activity or event each semester, as sponsored by the Honors Committee (3) Completion and acceptance of a thesis involving serious and original research. Normally the topic will be in the major field and will be chosen before the start of senior year. The topic will be approved by the chairman of the major department in consultation with the Honors Committee. There shall be two readers for the thesis—one from the major department and one from the Honors Committee.

The following are currently members of the Honors Committee: Dr. John K. Hawes, ex officio member; Assistant Dean Joseph Louzonis, delegate of the Academic Dean; Dr. John Burke; Dr. Gerald Largo; Dr. Barbara Vigliano; Dr. Uwe Gielen; Dr. Francis Greene, Director of the Honors Program.

Comprehensive Examination or Project

During the senior year, every candidate for a baccalaureate degree should consult the chairman of his or her department regarding a comprehensive examination and/or research project.

The grades earned in the comprehensive examination or project shall be signified as follows: H—Honors—90 percent or better; P—Pass—70-89 percent. Students who merit a grade of H in the comprehensive examination may be exempt from final examination in all courses of their major field at the end of the senior year at the discretion of the department.

Health or Physical Education Requirement

All students must satisfy a two-credit health or physical education requirement. This can be accomplished by taking Health Science 100A, Health Science 100B/Physical Education 100A, or Physical Education 100 (B-H). Allied Health majors (Health Care Management, Health Services Administration, and Health Science) must take either the Physical Education 100 (B-H) or the interdisciplinary section, Health Science 100B/Physical Education 100A. Physical Education majors must take Health Science 100A or the interdisciplinary section. Students who participate in intercollegiate athletics must follow the regular registration procedures. They should select either Health Science 100A or the interdisciplinary section Health Science 100B/Physical Education 100A.

Senior Residence Requirement

The final 30 credits for the degree must be earned at St. Francis College.

Application for a Degree

Early in the last year of college each candidate will file with the Registrar a formal application for a degree. It is the responsibility of every degree candidate to observe all requirements and regulations, as well as all deadlines for paying fees, filing applications, submitting forms, and the like.

Graduation Honors

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 3.8.

The degree of *Magna Cum Laude* will be conferred upon a candidate who has achieved a quality point index of 3.6.

The degree of *Cum Laude* will be conferred upon a candidate who has achieved a quality point index of 3.4.

A student must complete 60 credits at St. Francis College for these honors.

CONTINUING EDUCATION PROGRAMS

Men and women of all ages are encouraged to become students at St. Francis College. The various programs of the college are open to mature students who wish to study full-time, or part-time, days or evenings.

Some degree programs have been especially designed with the mature student in mind, and are scheduled for the convenience of those with work and home responsibilities. These are the Bachelor of Arts or Bachelor of Science in Special Studies, the Bachelor of Science in Health Care Management (Allied Health Department), the Bachelor of Science in Aviation Business Studies (Aviation Department), the Bachelor of Science in Accounting, the Bachelor of Science in Management, the Bachelor of Arts in Communications, the Associate in Applied Science in Business Administration (Management Department), or Criminal Justice (Sociology and Criminal Justice Department), and the Associate in Science in Electronic Data Processing (Management Department). The Departmental Organization section describes requirements for all of these programs.

Those students with short-term educational goals will find one of the six Advanced Business Certificate Programs extremely beneficial. These certificates, awarded after the successful completion of 18-21 credits, are designed to provide the necessary technical competence and intellectual skill to compete in the corporate world. The credits which comprise a certificate may also be transferred into one of the St. Francis College degree programs. Information about these programs is included in the sections devoted to the Accounting and Management Departments.

Complete information and details of degree and certificate programs may be obtained from the Admissions Office. Interested persons should call the Office of Admissions for an appointment with an admissions counselor.



Extension Sites

St. Francis offers courses off-campus at extension sites.

A principal site is at the Federal Aviation Administration Building at J.F. Kennedy Airport, Jamaica, New York. Courses offered there are for Federal Aviation Administration employees. For further information, please consult the Office of Admissions or the Aviation Administration Program Chairperson.

Class Schedules

Courses are scheduled early in the morning, during lunch hour, and during the evening for the convenience of students with work and home responsibilities.

Financial Aid

Many mature students are eligible for the financial aid programs described on page 14, and are encouraged to consult advisors in the Office of Financial Aid. This office is open Monday and Thursday from 9 a.m. to 6 p.m. and Tuesday, Wednesday and Friday from 9 a.m. to 5 p.m.

Advisement and Registration

Educational advisors are available by appointment during school sessions, Monday through Thursday between 9 a.m. and 7 p.m. Special registration hours are arranged for adult students.

Admissions Process

Continuing Education students can attend classes by completing a temporary application. To pursue a degree, candidates must file an official application with the Admissions Office and submit official transcripts.

Interested students are encouraged to make an appointment through the Office of Admissions for complete information and educational advisement.

Individual Courses for Personal or Professional Growth

Non-degree students are invited to choose from 500 credit courses offered through the 17 departments of the College.

Experiential Learning

St. Francis College grants credit for learning acquired outside the classroom through its Experiential Learning assessment program. This program is available to all students pursuing a bachelor's degree.

Students must submit a portfolio in order for their prior learning to be assessed. They must petition for a specific number of credits in academic areas in which they are presenting prior learning experience.

Prior to portfolio submission, students must complete the one-credit course, "Preparation of a Portfolio," at the College.

Further information about this program may be obtained from the Office of the Academic Dean.

STUDENT SERVICES AND ACTIVITIES

Student services at St. Francis College are designed to assist students in making a successful transition to the collegiate environment, to enable them to pursue their academic objectives with optimal efficiency, and to provide for out-of-class experiences which promote individual growth and development. These services begin with preadmission counseling and orientation for freshmen and transfer students. They continue throughout each student's college career and include educational, vocational, spiritual, and personal guidance, extra- and co-curricular activities, and job placement.

New-Student Orientation

Freshmen and transfer students are urged to attend Orientation, which is hosted by Student Government and peer advisors before classes begin. Faculty, administrators and students are on hand to welcome new students and introduce them to the traditions, policies, and resources of St. Francis College.

Meetings with faculty, peer advisors and student government representatives are scheduled to assist new students in familiarizing themselves with academic programs, the services offered, and the opportunities which exist for participation in student activities.

Foreign Student Advisor

The Foreign Student Advisor may be found in the Office of Student Activities on the first floor mezzanine. She is available to advise international students on visa extension and immigration regulations, and to explain academic procedures and aspects of American culture which may be unfamiliar to them.

Campus Ministry

The Director of Campus Ministry, whose office is in Room 107-A, endeavors to strengthen students' spiritual growth and development. He provides spiritual guidance and counseling, holds pre-Cana conferences for prospective marital partners, arranges an annual student retreat, and celebrates a weekly Mass in the College Chapel.

Health Service

The Student Health Service is staffed by a professional nurse on Mondays and Wednesdays from 9 a.m. to 4 p.m./ and on Tuesdays, Thursdays, and Fridays from 9 a.m. to 3 p.m. The Medical Suite, in the student lounge on the mezzanine, is equipped to provide emergency first-aid attention, and contains a cot and other short-term facilities. Appointments can be made with a local general practitioner when necessary. Several hospitals are in the immediate vicinity of the College. The nurse is available for general health and nutrition counseling on a walk-in basis and by appointment.

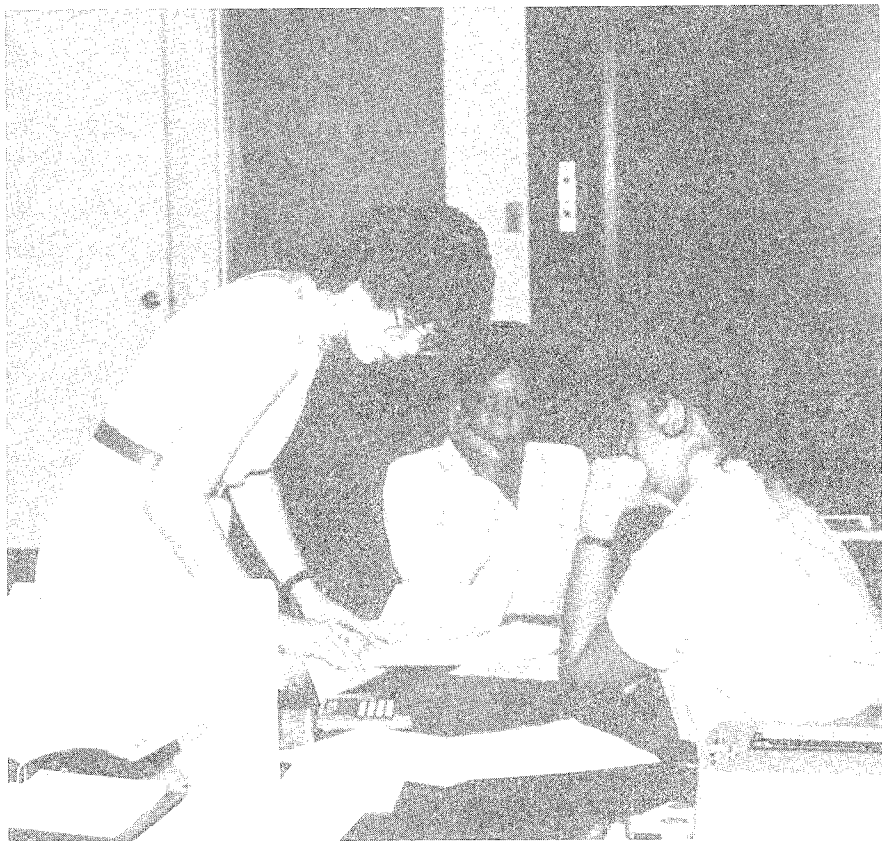
Academic Support Services

Under the auspices of the Office of Academic Support Services, the following services are provided to all students registered at St. Francis College:

Academic Advisement

Advisement is an important aspect of each student's academic career. It is the responsibility of each student to know and meet graduation and other school requirements and to make every reasonable effort to obtain adequate academic advisement. Advisement insures an understanding of the registration process and course selection appropriate to a student's educational goals. Consequently each full-time degree student is assigned a faculty member to be his/her Academic Advisor. Students who have declared a major will be assigned an advisor who is a member of their major department. Students who have not declared a major will be assigned a Faculty Advisor.

In addition, an Academic Advisement counselor is available to both day and evening students throughout the year to help students clarify their goals, discuss their progress, direct them to further assistance, and provide overall help with educational matters. The Academic Advisement Office is located in Room 302S. Every student must have selected courses approved by an Academic Advisor before registration.





Learning Center

The Learning Center, located in Room 303S, is a support service provided to all students registered at St. Francis College. The center's trained personnel assist students in upgrading their basic skills (reading, writing and mathematics). In addition, the center provides specialized assistance in reading and writing English to students for whom English is a second language. Throughout the semester the center also conducts workshops in academic skills such as notetaking, textbook usage, test-taking techniques and study skills.

Placement Tests

All new degree students must take the College's placement tests prior to Academic Advisement and registration. The results of the tests are used to advise students as to the appropriate mathematics or English courses. Basic subject areas included in the placement test are sentence structure, reading and mathematics.

Bookstore

The College bookstore, operated by Barnes and Noble, Inc., is located in the basement of the Science Building. The store provides all necessary books, materials and supplies, as well as incidental items. The bookstore is open from 9 a.m. to 6:30 p.m., Monday through Thursday, and 9 a.m. to 4 p.m. on Friday. During the first two weeks of each term bookstore hours are 9 a.m. to 7 p.m. on Friday. These hours are subject to change without notice.

Career Placement Center

The professional staff and resources of the Career Placement Center are available to assist students to make wise and suitable career choices and secure appropriate postgraduate employment. Toward these ends, the center provides a substantial library of print and audiovisual career planning reference materials, as well as an excellent computer-assisted career search system. The staff of the center is available for career guidance and counseling on an individual basis, and regularly offers workshops in such essential aspects of the career planning process as resume writing, preparation for the employment interview, and effective job search skills and techniques.

Members of the senior class may take advantage of the substantial number of placement interview opportunities offered each spring with representatives of major corporations and others seeking St. Francis graduates. All students may avail themselves of the part-time employment opportunities which are made available through the Center throughout the year.

The staff is also able, on a limited basis, to provide assistance to any student who is experiencing personal problems which are interfering with his or her academic performance.

Student Lounge and Cafeteria

The student lounge, located on the first floor of the Science Building, provides an area for students to meet together informally and is used for various social, cultural, and recreational activities. The cafeteria, located in the Arts Building, offers an extensive selection of foods and beverages at comparatively low cost. This facility is open from 7:30 a.m. through 4 p.m., Monday through Friday, throughout the regular academic year.

Medical-Accident Insurance Program

Provided that the college is able to negotiate a policy on their behalf, all full-time day students will be covered by a medical-accident insurance plan.

In brief, the benefits and limitations of this plan follow:

1. The plan covers medical expenses incurred as the result of accident or illness for all full-time students while enrolled at the College. Coverage is in effect 24 hours a day, including attendance at school-sponsored activities during the summer months.

2. Payment will be made up to a maximum benefit of \$5,000 for each injury, and up to a maximum benefit of \$2,000 for each illness. Additionally, a flat sum of \$5,000 will be paid in the event of accidental death; a like amount will be paid in the event of accidental dismemberment.

3. The plan does not cover replacement or repair of eyeglasses, contact lenses, prescriptions, dental X-rays, hearing aids, loss due to war, drug addiction, or losses for which benefits are payable by Worker's Compensation. Dental expense is covered only to the extent of that incurred as a result of injury to sound, natural teeth.

The costs of this program are borne by a portion of the student activity fee paid by all full-time day students; there are no additional charges. Information or advice concerning claims is available in the Student Health Office on the mezzanine.

In addition to this program, the college also makes available to interested students an optional supplemental accident and sickness medical benefit plan. The supplemental plan is designed to provide additional coverage for students and their dependents, if any, at competitive rates. Details are available in the Student Health Office.

For information concerning insurance for students who participate in inter-collegiate sports, contact the Athletic Trainer in the Physical Education Center.

Student Activities

The College offers a program of co-curricular and extracurricular activities broad enough to satisfy a wide variety of tastes and to meet the needs and interests of most students. Co-curricular activities are related to specific disciplines and curricular programs. Extracurricular activities offer students the opportunity to develop new interests and leadership skills, to relax and enjoy a welcome change from daily study routines.

Students are encouraged to involve themselves in these activities which provide opportunities for personal growth and development complementing those of the classroom and laboratory.

The student activities program is supervised by the Faculty Committee on Student Activities and by the Student Government, and is administered by the Director of Student Activities.

Student Government

The Student Government of St. Francis is concerned with the affairs of students in their relations with the College and surrounding communities. Student Government acts as a sounding board for all student interests, and provides 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. Student Government is responsible for representing the student body before the various groups involved with life in the college community.

Special Interest Clubs

THE ACCOUNTING SOCIETY seeks to stimulate interest in the profession of accounting through a program of guest speakers, field trips, and other activities.

THE BLACK STUDENTS ORGANIZATION is the successor to the Afro-American Club and serves the needs of black students.

THE BOTANICAL SOCIETY maintains the greenhouse and generally tries to beautify various areas of the College with plants.

THE CHEERLEADERS attend and support all athletic events at the College home games and many of the away games.

THE CHESS CLUB provides games for student use and sets up tournaments.

THE COMPUTER CLUB is organized to encourage students to explore the variety of projects computers can accomplish.

THE FINANCE CLUB provides opportunities for students interested in the field of finance to discuss issues relevant to the discipline and to visit financial centers.

THE FINE ARTS CLUB is organized to provide opportunities for students to take advantage of the wealth of artistic and cultural events in New York City and to develop students' interests in and appreciation of the arts by attending cultural, historical and artistic functions.

THE FOREIGN STUDENTS ASSOCIATION is an organization of students from various countries attending St. Francis College. It promotes the academic and social interests of its members by seeking to satisfy the needs of all foreign students. It also works to foster greater understanding among its members and other students at St. Francis College.

THE GAELIC SOCIETY serves students of Irish descent and those with cultural interests in Ireland.

THE HISTORY AND POLITICAL SCIENCE SOCIETY is composed of students dedicated to the advancement of the social sciences. It is open to students majoring in any subject.

THE LATIN AMERICAN CLUB works to foster an interest in Hispanic culture at St. Francis by means of lectures, movies and its most noted function—the Spanish Fiesta. Each year the club awards the Honorary Roberto Clemente Medal to the graduating member who has actively participated in the attainment of club goals.

The MANAGEMENT MARKETING SOCIETY exists to foster study and research in the management and marketing fields and to better develop public understanding of these fields.

THE MUSIC CLUB provides opportunities for students who sing or play a musical instrument to make music together and to perform at college functions.

THE NATIONAL ASSOCIATION OF BLACK ACCOUNTANTS, St. Francis College Chapter, was founded to familiarize minority students in particular but all students in general with the career opportunities available in the Accounting Field.

THE PHILOSOPHY CLUB offers opportunity for members to enter into discussions of interdisciplinary topics.

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

THE ST. FRANCIS PRAYER GROUP provides an opportunity for students of the Christian faith to participate in spiritual discussions and prayer.

THE SCIENCE SOCIETY serves the combined interests of students in chemistry, biology and pre-medicine.

THE SKI CLUB plans and conducts ski trips during the winter vacations and weekends.

THE ST. THOMAS MORE PRE-LAW SOCIETY seeks to inform the potential law student of the many facets of the profession. During the year representatives of law schools and other professionals address the members. Information about requirements for the Law School Admission Test is also presented.

THE TROUPERS, founded in 1925, is the College's dramatic organization. The group's aims are not only cultural and literary, but also practical since experience in theater craft is offered. The members act in, produce and direct several full-length and one-act plays each year. Guests from the professional theater demonstrate techniques at meetings.

THE UNITED NATIONS CLUB affords students an opportunity to explore and experience the field of international relations and the work of the United Nations through various projects such as model United Nations and U.N. delegations.

Social Fraternities and Sororities

Fraternities and sororities offer social advantages that appeal to many students.

ALPHA PHI DELTA, BETA SIGMA CHAPTER, was established in 1961.

PI SIGMA, DELTA CHAPTER, a sorority, was founded in 1970. Its basic aims are the promotion of friendship and social interaction, the diffusion of liberal culture and the advancement of equality in college affairs.



Athletics

Under the supervision of the Director of Athletics and his staff, the College's athletic program provides opportunities for students with exceptional talent to participate in a wide variety of intercollegiate athletic competition. St. Francis College, a member of the Eastern Collegiate Athletic Conference and NCAA Division I, is represented by varsity teams in the following sports:

Men: BASKETBALL, SOCCER, BASEBALL, SWIMMING, and WATER POLO.

Women: BASKETBALL, VOLLEYBALL, SWIMMING, and SOFTBALL.

Coed: BOWLING, CROSS-COUNTRY, TENNIS, and INDOOR TRACK.

Intramurals

Under the direction of the Intramurals Supervisor, the College provides a well-rounded program of intramural sports and recreational activities. Intramural sports, with teams for men and women in most cases, include basketball, softball, volleyball, floor hockey, indoor soccer, water basketball, billiards and table tennis.

Students are encouraged to take advantage of the swimming pool, gymnasium and weight room for recreational use.

Intramural activities and programs are described in a brochure which is available in the Intramurals Office.

Publications

THE CORD, the College handbook, contains statements of student rights and responsibilities, a directory of student services, the Student Government Constitution, and other items of importance to students.

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

MONTAGE, founded in 1977, is the student literary magazine. It affords student writers and artists an opportunity for publication of their work.

THE VOICE is the student newspaper. It is edited and published by members of the student body.

National Honor Societies

ALPHA KAPPA DELTA is a national sociology honor society whose purpose is to encourage scholarship among sociology majors, to stimulate interest in sociology, and to sponsor research into social problems. The Xi Chapter at St. Francis College was founded in 1973. Membership is open to juniors and seniors who have completed at least 10 credit hours in sociology and have attained 3.0 both as a cumulative index and index in sociology.

ALPHA KAPPA PSI is a professional business fraternity whose Zeta Iota Chapter was established at St. Francis in 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.

ALPHA PSI OMEGA, Pi Zeta Chapter of the National Drama Society, was founded at St. Francis College in 1961. Membership is open to students who have participated in two college play productions.

CHI BETA PHI, Alpha Xi Chapter, is a national science honor fraternity established in 1969. It is open to junior and senior biology, chemistry, and psychology majors who have a minimum cumulative index of 2.8 and a major or science index of 3.0.

ETA SIGMA GAMMA, Alpha Chi Chapter, is a national professional honor society in health science (education) whose principal purpose is to elevate the standards, ideals, competence and ethics of professionally trained men and women in the discipline of health science. The College chapter was founded in 1979. Membership is open to those with a cumulative index of 2.7 who have completed 12 credits in health science with an index of 3.2.

KAPPA DELTA PI is a national society dedicated to fostering scholarship among students in education. The St. Francis College Xi Rho Chapter was established in 1978. Membership is limited to juniors and seniors participating in teacher training programs at the College. They must have completed 12 credits in the professional study of education, and must have a cumulative index of 3.2.

KAPPA MU EPSILON, New York Theta Chapter of the National Mathematics Honor Society, is a vehicle for discussion and undergraduate research in mathematics. Membership is limited to sophomores, juniors and seniors who have an index in mathematics of 3.0 and a cumulative index of 2.75 or better. Members must be mathematics majors and have completed at least 12 credits in mathematics.

OMICRON DELTA EPSILON, Eta Chapter, is an international economics honorary fraternity. The St. Francis Chapter is limited to juniors and seniors who have a cumulative index of 3.0 and have earned 12 credits in economics with a better than 3.0 average.

PHI ALPHA THETA is a national history honor fraternity whose Theta Nu Chapter was established at St. Francis College in 1961. Membership is limited to juniors and seniors who have an index in history of 3.0 and a cumulative index higher than 2.8. Members must have completed at least 12 semester hours of history.

PHI GAMMA NU is a national professional honor society in business. Beta Psi Chapter was established at St. Francis College in 1976. A 3.0 index is required for membership.

PSI CHI, the national honor society in psychology, serves to recognize psychology as a diverse science by encouraging students to develop research and clinical interests, attend regional and national conventions and become familiar with academic and clinical settings in the metropolitan area.

SIGMA DELTA PI is the national Spanish honor society whose Zeta Theta Chapter was formed at St. Francis in 1967. Membership is limited to juniors and seniors who have an index in Spanish of 3.0 and rank in the top 35 percent of their class.

SIGMA TAU DELTA is the national English honor society. Membership is open to students who have completed 12 credits in English and attained an index in English of 3.0.

THETA ALPHA KAPPA is the national religious studies/theology honor society whose Tau Chapter was formed at St. Francis College in 1978. Membership is limited to students who have completed a minimum of 12 credits in religious studies with a 3.5 average and a cumulative index of 3.0. The purpose of this society is to encourage scholarship among its members, to further the pursuit of religious studies on the undergraduate level, and to bring students, teachers, and writers of religion together both intellectually and socially.

The Duns Scotus Honor Society

The Duns Scotus Honor Society primarily aims to encourage among students a love and desire for excellence in scholarship and service to all the activities of the college. Its 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 faculty. To be eligible for membership a student must have completed 60 semester hours and two years of residence at St. Francis College. Applicants must have an index of 3.6 and must show satisfactory evidence of distinguished participation in at least two extracurricular activities at the College. When requesting the membership application, prospective candidates will be given a detailed explanation of the requirements for membership. At commencement each member wears the red and blue tassel reserved for society members. 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.

DEPARTMENTAL ORGANIZATION AND COURSES OF STUDY

The college is divided into the following departments:

Accounting and Business Law
Allied Health
Aviation Administration and Business Studies
Biology
Chemistry and Physics
Communications
Economics
Education
English
Foreign Language and Fine Arts
History, Political Science, and Social Studies
Management
Mathematics
Philosophy
Psychology
Religious Studies
Sociology and Criminal Justice



Note: Courses of study may be offered during the day session, in the evening session or during both day and evening sessions. The letters "D" and "E" in parentheses at the end of course descriptions indicate session(s) during which the course is offered.

ACCOUNTING AND BUSINESS LAW

Chairman: Geoffrey R. Horlick

Professors Emeritus: Savage, Schwartz; Professor: Horlick; Associate Professor: Yellin; Assistant Professors: Larson, Marino; Instructor: Waters; Adjuncts: Celano, Cuddahy, DePaola, Kane, Kleiner.

The department offers courses in financial accounting, managerial accounting, auditing, taxation and business law.

Major in Accounting

A major in accounting prepares the student for a career in public accounting, private accounting (corporate) or not-for-profit accounting (government agencies, foundations and associations, hospitals, religious organizations, arts groups, etc.). Upon satisfactory completion of the major in accounting, the student may sit for professional certification examinations such as the CPA exam or CMA exam. The degree requirements are fully registered with the State of New York.

Internship programs providing a guided practical experience in both corporate and public accounting are available to selected students.

Graduates of the accounting program of St. Francis College have been employed by a broad range of CPA firms, banks, brokerage houses, manufacturing firms, retail establishments, governmental agencies, and not-for-profit groups.

Major Course Sequence in Accounting

	Credits
Core Curriculum including Mathematics 109; 110 (see page 30)	42
Business Law 201; 202	6
Economics 201; 202; 306	9
Two courses from any of the following Departmental offerings:	
Economics, any course	
History 303; 307; 406; 410	
Political Science 204; 309; 404; 406	
Psychology 201; 311; 317	6
Management Courses:	
Business 101; 490	
Computer Information Systems 101	
Finance 301	
Marketing 201	
Quantitative Analysis 308	18
Mathematics 301	3
Accounting 101; 102; 201; 202; 303; 305; 401; 404; 405; 406	30
Electives	12
Health Science 100A, Health Science 100B/	
Physical Education 100A or Physical Education 101 (B-H)	2
Total Credits Required	128

Minor in Accounting

The minor in accounting introduces students to the field of accounting and provides them with an overview of financial and managerial accounting, taxation and an introduction to computers. It allows students majoring in other areas to obtain some knowledge and understanding of various accounting practices and procedures used today. A minor in accounting may be pursued by students in any major degree program.

Minor Course Sequence	Credits
For Liberal Arts Majors:	
Accounting 101; 102; 303; 405	12
Computer Information Systems 101	3
	<hr/> 15

For Management majors:
All of the above courses, plus Accounting 409.

Advanced Business Certificate in Corporate Accounting

To qualify for an Advanced Business Certificate, a minimum of fifteen of the required credits (excluding transfer and experiential learning credit), must be taken in residence at St. Francis College. Non-matriculated status and possession of a high school diploma or its equivalent are required for entry into the program. St. Francis students matriculated in degree programs may not pursue these certificates. A minimum grade of "C" is required in each course. The possession of basic skills in mathematics is required of all certificate program students, with algebra required for the corporate accounting option.

The program in corporate accounting is especially geared for adults who work with public and private accountants or who wish to be involved in the accounting field, as well as the government and non-profit sectors.

Advanced Business Certificate in Corporate Accounting Course Sequence	Credits
Accounting 101 & 102	6
Business 101	3
Computer Information Systems 101	3
Accounting 303	3
Accounting 405	3
Business 250	3
Total Credits	<hr/> 21

Note: See Management section for information on other Advanced Business Certificate Programs.

Courses in Accounting (ACC)

ACC 101, 102 ELEMENTARY ACCOUNTING I, II 3,3
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 101 is prerequisite to ACC 102. ACC 101 and ACC 102 are offered every semester. (D,E)*

ACC 150 INTRODUCTION TO ACCOUNTING (for non-business majors) 3
 An introduction to accounting as the universal language of business. A study of the postulates and concepts underlying the preparation of basic corporate financial statements. The preparation of such statements is considered; analysis and interpretation of the statements are strongly emphasized. *Offered every Spring. (D,E)*

ACC 201, 202 INTERMEDIATE ACCOUNTING I, II 3,3
 An in-depth analysis of accounting theory and financial reporting. The courses emphasize asset and liability valuation and the corresponding measurement of revenues and expenses. Specific topics in ACC 201 include: adjustments, classified financial statements, and analysis of current assets (i.e., cash, receivables, and inventories) and current liabilities. Accounting for the acquisition, depreciation, exchange, and disposition of fixed assets is also included in this course. The course combines a mixture of theory and problems. *ACC 102 is prerequisite to ACC 201, and ACC 201 is prerequisite to ACC 202. ACC 201 is offered every Fall. ACC 202 is offered every Spring. (D,E)*

ACC 303 COST ACCOUNTING 3
 The managerial use of cost data for routine planning and control, and for long-range planning; product costing using job order, process and standard costs. *Prerequisite: ACC 102 or ACC 150. Offered every Fall. (D,E)*

ACC 305 AUDITING 3
 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. *Prerequisite: ACC 201. Offered every Spring. (D,E)*

ACC 400 ACCOUNTING INTERNSHIP PROGRAM 1
 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 chairman. *Offered every Fall. (D)*

ACC 401 ADVANCED ACCOUNTING PROBLEMS 3
 An in-depth analysis of accounting theory and financial reporting. Course coverage includes partnerships, installment sales, consignments, and consolidations. *Prerequisite: ACC 202. Offered every Fall. (D,E)*

ACC 404 ADVANCED ACCOUNTING THEORY 3
 The analysis of concepts of income, inflation accounting, leases, pensions, and generally accepted accounting principles. Readings in current literature and review of recent professional pronouncements. *Prerequisite: ACC 401. Offered every Spring. (D,E)*

ACC 405, 406 TAXATION I, II 6
 A study of the basic principles of federal income taxation as applied to individuals, partnerships, and corporations; social security, gift, and estate taxes. *ACC 102 or 150 is prerequisite to ACC 405; ACC 405 is prerequisite to ACC 406. ACC 405 offered every Fall; ACC 406 offered every Spring. (D,E)*

ACC 408 NEW YORK STATE AND CITY TAXATION 2
 A study of the basic principles of New York State and City taxation emphasizing corporations, individuals, partnerships, estate trusts, gift and sales taxes. Special emphasis is given to the differences between the federal and state taxes. *Prerequisite: ACC 405. Offered every Spring. (D)*

ACC 409 INTERNAL AUDITING 3
 This course provides the tools and techniques needed to enter the corporate internal audit department. Included are the standards and components of internal auditing, report writing, computer control and audit, operational auditing, and the major differences between external and internal auditing. *Prerequisite: ACC 102; or ACC 150; BUS 101. Offered every Fall. (E)*



Courses in Business Law (BL)

BL 201 BUSINESS LAW I

3

An introduction to law in general; the court system and legal process. Topics studied include: the law of torts, business crimes, property and contracts. The Uniform Commercial Code is considered. *Offered every semester. Sophomore standing required. (D,E)*

BL 202 BUSINESS LAW II

3

The law of sales and commercial paper—Articles 2, 3, and 4 of the Uniform Commercial Code. Also the law of agency, partnership and corporations. *Prerequisite: BL 201. Offered every semester. Sophomore standing required. (D,E)*

BL 403 BUSINESS LAW III

3

The law of wills, estates, bankruptcy, employer-employee relationships, the accountant's legal responsibility, secured transactions and government regulations. Aside from covering these substantive areas of law, discussion of actual questions and solutions from past CPA examinations in all areas of business law are included. *Prerequisite: BL 201. Recommended: BL 202. Offered in Spring of odd-numbered years. It is therefore suggested that interested students take BL 201 and 202 by their junior year in order to have completed the prerequisites. (D)*

ALLIED HEALTH

Chairman: Sandra Bloomberg

Associate Professors: Bloomberg, Glascock, Plonsky; **Adjuncts:** Cisco, Cribbin, Driscoll, Giachetti, Kleiman-Levine, Kramer, J., Kramer, R., Morris, Murray, O'Brien, Sedutto, Yenella.

The Allied Health Department offers majors in Health Care Management, Health Services Administration and (in conjunction with the State University of New York Health Science Center at Brooklyn) a program leading to the B.S. in Medical Records Administration.

Note: All new students who declare a major or indicate an interest in majoring in Allied Health degrees, or who wish to register for HC 101-102 must be tested in reading, English, and math where applicable. This testing is done on an individual basis at the Learning Center but must be completed before the student is enrolled in HC 101. Based on the results of these tests, the student may register for HC 101 with no restrictions or will be required to register for a one-hour per week lab/workshop designed to help students develop and improve basic academic skills. Specific details about testing are available from the Allied Health Department.

Major in Health Care Management (for Health Professionals)

This program provides an opportunity for individuals already employed in the health care field to obtain knowledge and skills which will prepare them to enter middle management positions in health care fields.

Enrollment in the program is intended for those who have had two years of post-secondary training and three years of professional experience in the field. The program has been planned to allow flexibility: 60 percent of the program is elective (except 42 semester hours must be in the liberal arts) so that a sequence of supporting courses can be developed to meet the needs of the individual student.

The program allows the student to receive transfer credit for courses completed at other accredited institutions.

Many applicants have had learning experiences acquired outside academic life which merit Experiential Learning credits. The Bachelor of Science in Health Care Management program allows qualified individuals to apply for this evaluation.

The department offers an award, The Gelfand Medal, for Health Care Management majors at each June Commencement. Eligibility and criteria are available at the department office.

Major Course Sequence in Health Care Management	Credits
Core Curriculum (see page 31 for special core).....	21
Health Care 101-102; 103; 104; 105; 203; 701 and three health-related electives.....	30
Liberal Arts electives.....	42
Free electives*.....	33
Health Science 100B/Physical Education 100A or Physical Education 100 (B-H)	<u>2</u>
Total Credits Required.....	128

*The student's interests, goals, as well as specific graduate school requirements should be considered when choosing liberal arts, free, or health-related electives.

Major in Health Services Administration

The health services administration major emphasizes the areas of management, economics and science. It prepares students to enter administrative positions in hospitals and voluntary and public health agencies as well as a variety of careers in the private sector with pharmaceutical and insurance companies. The major is also a good preparation for graduate study in public administration, public health, community health, hospital administration and the MBA. Graduate study can enable students to obtain supervisory and department head positions in hospital personnel, admissions, business and records, and for associate directorships in nursing, ambulatory services, business and planning.

Major Course Sequence in Health Services Administration	Credits
Core Curriculum, including Mathematics 301 and Biology 106 or Biology 101 (see page 30)	42
Major requirements: Health Care 101-102, 103; 104; 105; 203; 600, 701; Health Science 102; 406 and three health-related electives	39
Other requirements: Economics 201, 202, 309, Business 101, Computer Information Systems 101, Human Resources 210 or Psychology 317	18
Liberal Arts Electives	6
Free electives	21
Health Science 100B/Physical Education 100A or Physical Education 100 (B-H)	2
Total Credits Required.....	128

Program in Medical Records Administration

Through an affiliation agreement with S.U.N.Y. Health Science Center at Brooklyn (formerly, Downstate Medical Center), the Allied Health Department offers professional education in the field of medical records administration. After completing two years of academic study at St. Francis College, the student commences clinical training at the Health Science Center. The baccalaureate degree is awarded by the S.U.N.Y. Health Science Center at Brooklyn. Minimal requirements for admission to the program are a 3.0 index on a 4.0 scale and no "D" grades. Students who successfully complete the program are eligible to take the National Registration Examination, administered by the American Medical Record Association. Passing this exam entitles the candidate to professional recognition with the title of Registered Record Administrator (RRA).

The primary responsibility of a Medical Records Administrator is the management of health information systems consistent with the medical, administrative, ethical, and legal requirements of the health care delivery system. Specifically, the medical records professional is prepared to plan and implement medical records systems, to direct a total health records program, and to coordinate the system with other departments in a variety of facilities such as nursing homes, community health clinics, regulatory agencies and hospitals, as well as insurance companies.

Program in Medical Records Administration

Course Sequence

	Credits
Biology 103, 104	8
Chemistry 101	4
Mathematics 104; 301	6
English 103; 200-level literature course	6
Computer Information Systems 101	3
Psychology 201	3
Sociology 203	3
Electives*	27
Total Credits Required	60

*May be selected from Business Law 201, Economics 201, 202, Health Care 101, 102, 103, 104, 201, 202, 203, 204, Computer Information Systems 218, 301, 302, Business 101, 250.

Minor in Health Administration

This minor provides students with the opportunity to investigate the area of health administration in a systematic, in-depth manner. Such a minor is useful for both liberal arts majors and management majors who are interested in applying their skills to this specific professional area, while expanding their sphere of expertise and increasing their future marketability.

Health Administration Minor Course Sequence

	Credits
Health Care 101-102	6
Health Care 103*	3
Health Care 104	3
One Course—choose from:	
Health Care 105**; 201; 202; 203; 204; 302; 304/ Religious Studies 315; Health Care 306 or 307	3
	15

*Students who have taken Business 101 may substitute Health Care 105, 201, 202, 203, or 204.

**Students who have taken Human Resources 304 may not select this course.

Minor in Health Science

A minor in health science is both useful and appropriate for a variety of students. Because the health field is such a rapidly growing and diverse industry, the talents of many individuals with backgrounds in areas such as English, economics, sociology, psychology, and management, combined with knowledge in health science are utilized in numerous situations.

Knowledge of concepts, theories, and application of skills in health science is particularly vital for physical education, education and pre-med majors.

Health Science Minor Course Sequence	Credits
Health Care 101; 102	6
Health Science 102	3
Health Science 206	3
Health Science 207	3
Health Science 302	3
And, one course chosen from the following:	
Health Science 204; 301*; 403; 406*; or 419	3
	<hr/> 21

*Prerequisite Psychology 201

**Prerequisite Mathematics 301

Courses in Health Care (HC)

HC 101-102 INTRODUCTION TO AMERICAN HEALTH SERVICE DELIVERY I, II (formerly HC 407, HS 208 and HS 501) 6

An introduction to the pluralistic health system of 20th century America: institutions, manpower, consumers, financing and government. This two semester foundation course will survey topics covered in higher-level courses, as well as describe the broader environment in which individual services are grounded. Topics include public, private, and voluntary services; the impact of laws and regulations at the local, state, and federal levels; the public health hierarchy; the influences of fiscal intermediaries on health care. *HC 101 is offered every Fall, HC 102 every Spring. HC 101 is prerequisite to HC 102. (E)*

Note: To take HC 101, students must be tested in reading and English prior to the first week of classes (see page 52). To take further HC courses, a student must receive C grades or better in HC 101-102.

HC 103 ORGANIZATION AND MANAGEMENT OF HEALTH INSTITUTIONS (formerly HC 401) 3

Introduction to basic organization with emphasis on acute care hospitals and their departmental structure. The managerial functions and supervisory skills for the middle manager; comparison of managerial styles. *Prerequisites: HC 101-102. Offered every Fall. (E)*

HC 104 LEGAL ISSUES IN HEALTH CARE (formerly HC 403) 3

An overview of legal issues confronting health care personnel. Topics include contracts, informed consent, patient rights, record keeping, liability for negligence and malpractice, as well as other ethical topics. *Prerequisites: HC 101-102. Offered every Fall. (E)*

HC 105 PERSONNEL MANAGEMENT IN THE HEALTH FIELD (formerly HC 404) 3

Introduction to the effective management of human resources, or people at work. Topics covered include recruitment, training and supervision, discipline, evaluation, and termination. The course applies personnel theories and techniques to the health field. *Prerequisites: COM 203, HC 103. Offered every Spring. (E)*

HC 201 HEALTH PLANNING AND RESEARCH 3

The application of statistical methods and techniques to the planning and delivery of health services. History of health planning; its impact on financing, manpower and institutions. Research methods illustrated by case study. Topics include population projection, needs assessment, forecasting. *Prerequisites: HC 101-102, MAT 301. Offered in Fall 1986, Fall 1988. (E)*

HC 202 EVALUATION AND QUALITY ASSURANCE IN HEALTH CARE 3

Introduction to the efforts to assure quality in health services, professionals, and institutions: peer review, utilization review, medical audit, credentialing and continuing education, accreditation, DRG's. Accountability within professions vs. external controls. Evaluation models as applied to health programs and services. *Prerequisites: HC 101-102, MAT 301. Offered in Spring 1987, Spring 1989. (E)*

HC 203 FINANCIAL MANAGEMENT FOR THE HEALTH FIELD

(formerly HC 436-438)

3

Survey of the principles of accounting theory with emphasis on their application to the health field. Managerial accounting as it relates to planning, budgeting, staffing, and rate setting. Designed for the middle manager. *Prerequisite: HC 103. Offered every Fall. (E)*

HC 204 INFORMATION AND DATA MANAGEMENT IN HEALTH INSTITUTIONS

3

Information and data management has become essential on all levels of the health system from patient monitoring and records to business transactions and need projections. Computer technology and other sophisticated systems are applied in all health care settings. This course surveys the use of reporting tools in health care, and introduces students to practical application and specialized software. *Prerequisites: HC 101-102 and CIS 101. Offered Spring of odd-numbered years. (E)*

HC 301 INTRODUCTION TO GERONTOLOGY (formerly HC 435)

3

An overview of issues concerning the aging population and process: stereotypes, retirement issues, physical and psychological changes, legal and financial needs, family supports. Traditional facilities as well as innovative concepts and programs are introduced. *Offered every Fall.(E)*

HC 302 LONG-TERM CARE MANAGEMENT (formerly HC 310)

3

This course focuses on the principles, skills, and knowledge involved in organizing and managing a long-term care facility. Special attention is given to the needs of the aged in various levels of care, financing mechanisms, federal, state and local regulations, and criteria/standards which must be met to secure licensure in New York State as a nursing home administrator. *Prerequisites: HC 103 and HC 301. Offered Spring of even-numbered years. (E)*

HC 303 ALTERNATE CARE FOR THE AGED (formerly HC 434)

3

Current policy and legislation which pertain to the aged will be discussed. Structure, content, and adequacy of programs and services which comprise the continuum of care for the noninstitutionalized elderly will be examined. Future direction, goals, and strategies for the development of the continuum of care will be explored. *Prerequisites: HC 103 and HC 301. Offered in Spring of odd-numbered years. (E)*

HC 304 or REL 315 HEALING AND WHOLENESS (formerly HC 215)

3

An interdisciplinary course which explores the interface of healing and wholeness from the perspectives of religion and health care systems. It includes a religious overview of healing from the traditions of the shaman to contemporary faith healers; an exploration of health care organization from ancient roots through modern medicine; alternative medicines and holistic therapies including psychic healing and biofeedback; and ways to self-healing through dream journals and meditation. *Offered every Fall. (E)*

HC 305 or PSY 225 COPING WITH STRESS (formerly HC 225)

3

This interdisciplinary course will explore theories, research and techniques related to the impact and management of stress. There will be heavy emphasis upon the application of stress reduction techniques through class exercises in progressive muscle relaxation, autogenic and imagery training, systematic desensitization, assertiveness training, time management, and problem solving. *Offered every Spring. (D,E)*

HC 306 WOMEN AND MANAGEMENT IN THE HEALTH FIELD (formerly HC 450)

3

A study of the traditional management of health care reveals that while women comprise the majority of patients and workers, male administrators and physicians have dominated planning and delivery of services. Women's emergence as administrators, as well as particular problems women face in predominantly male fields are studied. Empowerment of women as managers and facilitators is the focus of class discussion. *Prerequisite: HC 103 or BUS 101. Offered in Fall of odd-numbered years. (E)*

HC 307 MENTAL HEALTH: CONCEPTS AND ADMINISTRATION (formerly HC 411)

3

A study of basic principles of mental health, as well as an overview of maladjustment. Programs, treatment modalities, and facilities designed to maintain or restore mental health, and long-term custodial institutions will be discussed. *Prerequisites: PSY 201 and HC 103. Offered in Fall of even-numbered years. (E)*

HC 500, 501 INDEPENDENT STUDY I, II 3,3
Independent investigation into selected topics in health care management under the direction of a department faculty member. With the approval of the chairman only. *Prerequisite: At least 15 credits in Health Care or Health Science with a B average. Offered every semester. (D,E)*

HC 600, 601 FIELD PLACEMENT IN THE HEALTH FIELD I, II 3,3
Observation and supervised experience in selected health care settings; participation in administrative meetings and training sessions. Includes on-campus seminar to discuss problems and progress. May be taken for two semesters. *Prerequisite: At least 15 credits in Health Care or Health Science. Offered every semester.*

HC 701 SEMINAR IN HEALTH MANAGEMENT ISSUES 3
Senior seminar dealing with current management issues in the health field. In depth study of selected problems and problem-solving techniques. *Prerequisites: At least 15 credits in Health Care. Offered every Spring. (E)*

Courses in Health Science (HS)

HS 100A HEALTH ISSUES 2
This course will provide an overview of select current issues in the area of health. Data necessary for making informed decisions will be presented. Personal and societal attitudes, beliefs, and values implicit in the decision-making process will be discussed as they relate to health behavior and, consequently, health outcomes. *Offered every semester. (D,E)*

HS 100B or PE 100A EXERCISE, FITNESS, AND WEIGHT CONTROL 2
An interdisciplinary (Health Science/Physical Education) approach to the relationship of exercise to health, including weight control, stress reduction, and cardiovascular fitness. The course will include classroom work as well as participation in fitness assessment and activities. *Required of all students for graduation (see page 35). This course is offered on a graded basis. Offered every semester. (D,E)*

HS 102 COMMUNITY HEALTH 3
Introductory course in community health issues including the impact of the urban environment and social problems on health. An overview of community agencies will acquaint the student with available resources. Topics include: models for developing community health services, educational programs and crisis intervention; overcoming barriers to access; fundraising for community services; community impact on health services. *Prerequisites or corequisites: HC 101-102. Offered every Fall. (D,E)*

HS 204 ENVIRONMENTAL AND OCCUPATIONAL HEALTH 3
Environmental factors including population dynamics, air, water and noise pollution, and the growth of technology impact on human health in the community as well as in the workplace. Topics include ecology issues, environmental and workplace hazards, health standards and regulations. *Prerequisites: HC 101-102. Offered every Spring. (D,E)*

HS 206 SAFETY AND FIRST AID 3
Survey of home, school and community programs in safety and first aid. Identification of types of accident hazards, control of causative conditions, and responsibilities of community agencies and individuals for safe living. Procedures for temporary treatment in cases of accident or sudden illness. Successful completion of this course leads to the American Red Cross Certificate in standard first aid and personal safety. *Offered every Spring. (D,E)*

HS 207 NUTRITION 3
A foundation study of human nutrition including its importance to optimum physical and emotional health. The nutrients, fundamental principles of normal nutrition, body requirements of various food elements, diet patterns for varying age groups and specific conditions are studied. The social and cultural influences on food selection are considered. *Offered every Spring. (D,E)*

- HS 301 or PSY 301 HEALTH COUNSELING (for non-psychology majors) 3
This team-taught, interdisciplinary course focuses on both issues and techniques of health counseling. It investigates ways in which a health professional can detect needs of clients and work cooperatively to foster better health. It explores the helping relationship's impact on health behavior. *Prerequisites: HC 101-102. PSY 201. Offered in Fall 1986, Fall 1988. (D,E)*
- HS 302 CONSUMER HEALTH 3
Consumer problems are viewed in terms of economic, sociological, psychological and biological consequences to the individual and the community; consumer attitudes and behavior regarding needs, desires, and response to advertising, incorrect labeling, health insurance, life insurance, medicare, over-the-counter drugs, cosmetics, health fads and quackery, consumer protection agencies, evaluation of products and other topics of interest to the consumer. *Offered every Fall. (D,E)*
- HS 403 WOMEN'S HEALTH ISSUES 3
Accurate information about women's health needs will enable them to become more active participants in their own health care. Issues include: physician's attitudes toward women, knowing one's own body, contraception, pregnancy, rape, family violence, hysterectomy and mastectomy, mental health issues, and patients' rights in the health system. *Offered every Spring. (D,E)*
- HS 406 EPIDEMIOLOGY (formerly HS 503) 3
An introductory study of the factors influencing the nature and cause of communicable diseases and chronic conditions in human populations. The study of principles, practices, theories and methods related to the control and prevention of disease prepare the student for practical application of statistics. Topics include: the natural history of diseases in various population groups, environmental and biological factors influencing the emergence of disease, and the investigation of a community health problem. *Prerequisites: HC 101-102, MAT 301. Offered every Fall. (D,E)*
- HS 407 or SPEC ED 202 HEALTH EDUCATION FOR THE EXCEPTIONAL CHILD (formerly HS 505) 3
Daily living problems of the mentally retarded explored as to their self-realization and personal awareness; emphasis on the health responsibility of the individual as well as of the teacher, parent and community. *Offered every Spring. (D,E)*
- HS 419 or REL 419 DEATH, LOSS AND GRIEF 3
An interdisciplinary course that investigates the processes of death, loss and grief while focusing upon the manner in which patterns of dealing with death are interwoven with patterns of living. The family, religion, medicine, economy, law and community are considered. Specific issues addressed include the moral and legal aspects of euthanasia and the right to die, the hospital, hospice and home as alternative sites for dying, definitions of life and death, religious and cultural burial customs, and the bereavement process. The implications of these issues will be explored for health care practitioners and other individuals in the helping professions. *Offered every Spring. (E)*
- HS 504 INTERNSHIP IN HEALTH SCIENCE 6
Observation and supervised experience in a community health setting, giving practical application to previously studied theories. On-campus seminars allow students to discuss problems encountered and progress made in the field. May be taken for two semesters. *Prerequisite: At least 15 credits in Health Care or Health Science. Offered every semester. (D)*
- HS 600, 601 INDEPENDENT STUDY IN HEALTH SCIENCE 3-15
Independent investigation into a selected health science topic under the direction of a department faculty member. With the approval of the chairman only. *Prerequisite: At least 15 credits in Health Care or Health Science with a B average. Offered every semester. (D,E)*
- HS 701 SEMINAR IN HEALTH SCIENCE 3
An in-depth study of major health issues of current interest. Using a seminar format, the content will change each semester depending on public attitude and opinions, local and international health concerns, and medical innovations. *Prerequisite: At least 15 credits in Health Care or Health Science. Offered every Fall. (D,E)*

AVIATION ADMINISTRATION AND BUSINESS STUDIES

Chairman: Emmett N. O'Hare

Instructors: Mehl, O'Hare; **Adjuncts:** Recio, Tracey

The department offers majors in aviation administration and aviation business studies.

Major in Aviation Administration

Professionals in the field of aviation administration manage airports, oversee airline operations, control air traffic, market aircraft, supervise space programs and conduct flight training.

The aviation administration curriculum includes the necessary technical and managerial skills for the aviation field while insuring that the student receives a broad-based liberal arts background.

Opportunities for qualified aviation managers in all parts of the industry exist world-wide. The aviation administration major provides the knowledge and skills required to function in entry and mid-level management positions with airlines, airports, manufacturers, consultants or fixed-base operators.

Major Course Sequences in Aviation Administration	Credits
Core Curriculum including Mathematics 109; 110 (see page 30)	42
Accounting 101; 102	6
Aviation 101; 102; 310; 320; 330; 420; 430; 440	24
Business Law 201; 202	6
Economics 201; 202	6
Liberal Arts Electives	6
Business 101; Marketing 201; Computer Information Systems 101	9
Mathematics 301	3
Political Science 404	3
Psychology 313	3
Specialty Track Electives*	18
Health Science 100A, Health Science 100B/Physical Education 100A or Physical Education 101(B-H)	2
Total Credits Required	128

*Specialty tracks provide students with the opportunity to gain more detailed knowledge in a particular area of aviation administration or to study a complementary field in order to augment understanding of aviation administration. The department chairman must approve the specialty track and the grouping of courses that constitute the track for each individual student.

The following specialty tracks are available:

- air traffic control
- airport management
- aviation operations
- flight operations
- aviation maintenance
- electronic data processing
- accounting and finance
- economics
- management

Major In Aviation Business Studies

The aviation business studies program furnishes the graduate with the knowledge and skills necessary to advance into management positions within the industry. The program is designed primarily for students who fall within one of the following categories:

- 1) holders of an FAA certificate or license.
- 2) persons with current or previous employment in the aviation industry.
- 3) transfer students from other colleges with aviation or related majors.
- 4) graduates of technical aviation programs.
- 5) graduates of two-year college aviation-related programs.
- 6) continuing education students who desire a change in career.

Students who are not in any of these categories may be admitted to the aviation business studies program with the approval of the department chairman.

Major Course Sequence In Aviation Business Studies	Credits
Core Curriculum (see page 31 for special core).....	21
Liberal Arts Electives	33
Major requirements:	
a) Aviation 310; 320; 330; 420; 430; 440	18
b) Aviation Electives.....	15
c) Business 101; Marketing 201; Computer Information Systems 101; Business Law 201.....	12
d) Political Science 404; Psychology 313; Math 301	9
Other Electives	18
Health Science 100A, Health Science 100B/Physical Education 100 or Physical Education 100(B-H)	2
Total Credits Required.....	128

Courses in Aviation (AV)

The following courses may be offered either on the main campus or at the off-campus site at JFK Airport.

AV 101 INTRODUCTION TO AIR TRANSPORTATION (formerly AV 201) 3
The history of aviation focusing on the events which led to the development of today's air transportation system. An analysis of aviation's impact on economic and sociological affairs, both nationally and internationally. A survey of the components of the aviation business community including air carriers, manufacturers, private aircraft operators, government agencies, and trade associations. *Offered every Fall semester. (D,E)*

AV 102 AVIATION OPERATIONS (formerly AV 202) 3
Describes the conduct of professional flight operations including those of air carriers, corporations, F.B.O.'s, and the military. Introduces aircraft types, air routes, personnel, information systems, regulations, and safety. *Offered every Spring semester. (D)*

AV 203 AVIATION METEOROLOGY 3
Emphasis on interpretation of meteorological phenomena which affect aircraft flight; basic concepts of aviation meteorology; temperature, pressure, moisture, stability, clouds, air masses, fronts, thunderstorms, icing, fog, analysis and use of weather data for flight planning and safe flying; interpretation of weather maps, reports and forecasts. *Offered every Fall semester. (D)*

AV 204 FLIGHT SERVICE 4

Emphasis on flight planning, weather briefing techniques and procedures, use of Navaid monitors and radio direction-finding equipment, processing notices to airmen, flight following and flight plane handling, in-flight service, enroute flight advisory service, airport advisory service, customs and immigration service. Two classroom hours—two laboratory. *Offered Spring of even years. (D)*

AV 210 ASTRONAUTICS 3

Introduces spacecraft systems from propulsion to electronic and life support. Provides history of space exploits with emphasis on discoveries and lessons learned from each space mission. NASA documents used to insure current information. *Offered in Fall semester of odd-numbered years. (D)*

AV 213, 214 AERONAUTICS I & II 6

Physical principles of operations and design of airfoil and aircraft systems. Aircraft performance and impact of weather on performance. Navigation, radio navigational aids and air traffic procedures combined with federal air regulations. *Offered in Fall of even-numbered years and Spring of odd-numbered years. (D)*

AV 220 AVIATION REGULATORY AGENCIES 3

This course offers a detailed analysis of the regulatory agencies involved in the field of aviation. The historical background, current status, and future outlook of each governmental body will be studied. The Civil Aeronautics Board, Federal Aviation Administration, National Transportation Safety Board, and other agencies will be covered. A comparison between national and international organizations will be made. *Offered every Fall. (D)*

AV 310 AVIATION MARKETING AND ECONOMICS 3

An examination of the marketing theory and practices of the major components of the air transportation industry; air carriers, aircraft manufacturers, F.B.O.'s, and aircraft components suppliers. Topics include market structure, strategy, advertising and research. *Offered every Fall. (D,E)*

AV 320 AIRPORT AND AIRWAY FACILITIES 3

National and international air navigation facilities, their history, structure and administration. Airport operations and development including design, equipment, management, funding and community relations. *Offered every Fall. (D,E)*

AV 330 AVIATION PERSONNEL PRACTICES (formerly AV 410) 3

A study of human resources management in the aviation industry. Includes the role of labor unions, current labor relations practices, labor's relationship to industry's economy, hiring practices, management development, government regulations and programs. *Offered every Spring. (D,E)*

AV 340 AVIATION COMMUNICATIONS PRACTICUM (formerly AV 430) 3

Provides a working knowledge of the means by which communications are accomplished within the aviation industry including written correspondence, telephone systems, teletype, two-way radio, and computer information systems. Students gain practice in typical communications exchanges by writing business correspondence, preparing computer documents, and role-playing conversations for various communications systems. *Prerequisites: ENG 102; COM 203. Offered every Spring. (D,E)*

AV 350 AIR TRAFFIC CONTROL 3

History, present system and future operation of the domestic and international air traffic control system. Emphasis on interaction of the three domestic ATC options—enroute, terminal and flight service. Course evaluates the system operation and its impact on the air transportation system. Course will involve visits to air traffic control facilities and lab experience in traffic control and handling. *Prerequisite: Permission of chairman. Offered every Spring. (D,E)*

AV 355 or CJ 212 AVIATION SECURITY (formerly AV 451) 3

Analysis of security and protection within the aviation industry. Course discusses existing and future security programs and systems and equipment. Industry and corporate protection areas evaluated include: building control, industrial espionage, theft and pilferage. Airline passenger screening and protection, aircraft and fixed-base operator security programs are prepared and reviewed. Terrorist and bomb threats, building evacuation, and search procedures are reviewed. Legislation concerning aviation security is covered from both a historical and present requirement viewpoint. *Offered in Fall of even-numbered years. (D,E)*

- AV 365 AIR CARGO MANAGEMENT** 3
Intensive study of the management practices and problems involved in the air cargo industry. Background, services, facilities, and competition are discussed. Course includes IATA rate and tariff problems and an overview of Dangerous Goods Regulations. Field trips to air cargo and air freight forwarder facilities reinforce the course content. *Offered in Spring of odd-numbered years. (D,E)*
- AV 410 AVIATION SAFETY** 3
This course examines key areas of air and ground operations that contribute to accidents in the air transportation system. Basic elements of human psychology are integrated with the regulatory framework of the aviation system to explore the causes and issues that stem from actual air carrier accidents. The course also involves safety analysis within aviation organizations to determine hazards and potential problems, and to select preventive measures. Safety program preparation, implementation, and evaluation within the industry are also discussed. *Offered in Spring of even-numbered years. (D,E)*
- AV 420 AVIATION LAW AND BUSINESS POLICY** 3
An examination of governmental regulatory functions which impact the aviation industry. Includes manufacturing and operating regulations, contracts, torts, insurance and security. Legal and ethical considerations of business policy are addressed. *Prerequisites: BL 201. Offered every Fall. (D,E)*
- AV 430 AIRPORT MANAGEMENT** 3
An analysis of the role of the airport manager and his involvement with day-to-day and long-term management and operations of an airport. Course includes planning, operations, role of government agencies, community involvement, environmental issues, and human relations management. Site visits to several airports and guest lecturers enhance the presentation. *Prerequisite: AV 320. Offered in Fall of odd-numbered years. (D,E)*
- AV 440 CURRENT TRENDS IN AVIATION** 3
Analysis of selected contemporary issues and trends facing aviation management. Students investigate problems and analyze the underlying causes. The seminar format places emphasis on the student's written and oral presentation of information. *Prerequisites: Aviation major with senior status required. Offered every Spring. (D,E)*
- AV 450, 451 SPECIAL TOPICS IN AVIATION** 6
Lectures, seminars, laboratories, independent studies, or a combination of these on selected topics in general aviation and aviation management. *Offered every semester. (D,E)*
- AV 510 THESIS/SEMINAR ON AVIATION** 3
Students explore topics of interest and of significance to contemporary aviation community. Research, analysis, group discussion and formal presentation of conclusions are required. May be repeated for up to 9 credits. *Prerequisites: Senior standing; permission of chairman. Offered every semester. (D)*
- AV 600 FAA COOPERATIVE EDUCATION PROGRAM** 3
The Federal Aviation Air Traffic Control Training Internship. The program consists of 4 three-credit terms during which the student is employed by the FAA at an air traffic facility as a trainee. The student is evaluated and graded by the FAA facility manager and by the chairman of the Aviation Department. *Prerequisites: Approval of department chairman and acceptance into program by FAA. Offered every semester. (D)*
- AV 610 AIRLINE INTERNSHIPS AND COOPERATIVE EDUCATION PROGRAMS** 3
Cooperative education and internship training programs are set up with various aviation industry organizations. The student is placed in a variety of training positions within the company and evaluated on his performance. The overall grade for the program is compiled from the various individual grades received in each of the areas of training received. *Prerequisites: Approval of department chairman and airline. Offered every semester. (D)*

BIOLOGY

Chairman: Mary Rose DiGaudio

Professor Emeritus: Taschdjian; Associate Professor: Corrigan; Assistant Professors: DiGaudio, Klinger; Adjuncts: Conklin, Dines, Ernst, Minkowitz, Messina, Nobel, Raimondi.

The Biology Department offers majors in biology, bio-medical science and medical technology. In conjunction with the State University of New York Health Science Center at Brooklyn, programs leading to B.S. degrees in the fields of nursing, occupational therapy and radiologic science and technology; medical sonography track, are also offered.

Major in Biology

The major in biology prepares the student for admission to graduate and professional schools (medicine, dentistry, veterinary medicine, podiatry, osteopathy and optometry).

Major Course Sequence in Biology

Credits

Core Curriculum:

Mathematics 202; 203 are required and satisfy the natural science or mathematics requirements of the core (see page 30).....	43
Biology 103-104; 303; 310; 503 and 200/300/400/500 level electives	33
Chemistry 101-102; 301; 302; 304	22
Physics 101-102	8
Foreign Languages*	6 or 12
Electives*	8 or 14
Health Science 100A (Health Science 100B/ Physical Education 100A) (Physical Education 100A/ Health Science 100B) (Physical Education 100B-H)	<u>2</u>
Total Credits Required.....	128

*If one year of a language is taken, electives increase to 14 or, decrease to 8 if two years of a language are taken. It is recommended that some of these electives be used for Mathematics 301 and Science 201. They may, however, be used to reinforce knowledge in any scholastic area of choice.

Major in Bio-Medical Science (Podiatric Medicine)

In a cooperative effort with the New York College of Podiatric Medicine the department has an accelerated bio-medical science program which enables highly qualified students to complete a science-studies curriculum in two years and then make application to the New York College of Podiatric Medicine. Upon completion of the program, the student is awarded a B.S. in Biology from St. Francis College and a D.P.M. (Doctor of Podiatric Medicine) from the New York College of Podiatric Medicine. Normally this curriculum would be completed in eight rather than in six years.

Major Course Sequence In Bio-Medical Science

Credits

Core Curriculum:

Mathematics 202; 203 are required and satisfy the natural science or Mathematics requirement of the core (see page 30)	43
Biology 103-104; and 202 or 301 or 310 or 402 or Science 201	16
Chemistry 101-102; 301; 302; 304	22
Physics 101-102	8
Electives	2
Health Science 100A, Health Science 100B/ Physical Education 100A or Physical Education 100B-H	2
Cooperative Hospital Training; New York College of Podiatric Medicine .	35
Total Credits Required	128

Major in Medical Technology

The program in medical technology prepares the student for acceptance into one of the clinical facilities with which we have affiliation: Maimonides Medical Center or Methodist Hospital. Upon completion of clinical training, the student receives a B.S. in Medical Technology from St. Francis College, a certificate of program completion from the respective School of Medical Technology attended, is awarded a Board of Health Permit as a Laboratory Technologist and is eligible to sit for certification examinations.

Credits

Core Curriculum:

Mathematics 202; 203 are required and satisfy the natural science or mathematics requirement of the core (see page 30)	43
Biology 103-104; 301; 405; 408	18
Chemistry 101-102; 301; 302; 304	22
Physics 101-102	8
Electives*	3-4
Health Science 100A, Health Science 100B/ Physical Education 100A, or Physical Education 100B-H	2
Cooperative Hospital Training	32
Total Credits Required	128-129

*Strongly recommended: Science 201 or Chemistry 201.

Professional Programs

Through an affiliation agreement with the State University of New York Health Science Center at Brooklyn, the Biology Department offers professional education in the fields of nursing, occupational therapy, and radiologic science and technology; medical sonography track. After completing two years of academic study at St. Francis College, the student commences clinical training at the Health Science Center. The baccalaureate degree is awarded by the S.U.N.Y. Health Science Center at Brooklyn. Minimal requirements for admission to these programs are a 3.0 index on a 4.0 scale and no D grades.

Program in Nursing Course Sequence		Credits
Biology 003-004; 301		12
Chemistry 101 and 102 or 301	8(9)	
Health Science 207		3
English 103; 200-level literature course		6
Psychology 201 and one of the following: 203, 204, 307, 312, 314, 329 or 409		6
Sociology 203 and one of the following: 301, 305, 309 or 402		6
Humanities Electives*		12
General Electives**		7
Total Credits Required.....	60(61)	

*May be selected from: Communications; Economics; English; Fine Arts; Foreign Language; History; Philosophy; Political Science; Religion and/or Sociology.

**It is recommended that general electives be chosen from the area of physical science: Chemistry 302; Physics 101-102.

Program in Occupational Therapy Course Sequence		Credits
Biology 103-104; 202; 402		16
Chemistry 101		4
Mathematics 104; 301		
English 103; 200-level literature course		6
Psychology 201; 203; 409		9
Sociology 203		3
Humanities Electives*		16
Total Credits Required.....	60	

*May be selected from: Communications; Economics; English; Fine Arts; Foreign Language; History; Philosophy; Psychology; Religion and/or Sociology.

Program in Radiologic Science and Technology: Medical Sonography Track Course Sequence

	Credits
Biology 103-104	8
Chemistry 101	4
Mathematics 104; 301	6
English 103; 200-level literature course	6
Psychology 201; 312	6
Physics 101	4
Electives*	26
Total Credits Required.....	60

*Twenty elective credits to be selected from: Biology 201; 202; 206; 402; Physics 102; Chemistry 102. Computer Information Systems 101; Health Science 302. Six elective credits must be chosen from the following: Communications, Economics, English, Fine Arts, Foreign Languages, History, Philosophy, Psychology, Religion and Sociology.

Minor in Biology

The minor in biology is not intended as preparatory for graduate study but it will reinforce the student's biological science background.

Minor Course Sequence

Credits

Biology 103-104	8
Electives*	11-12
Total Credits Required.....	19-20

*Selected from Biology 201; 202; 203; 204; 206; 301; 302; 303; 403; 405; 408.

Courses in Biology (BIO)

BIO 003-004 ANATOMY AND PHYSIOLOGY 8

An analysis of the relationship between structure and function. Laboratory experiments and dissections are designed to achieve this objective. This course is designed to fulfill program requirements for the nursing program and the physical education major. *Two lectures, one recitation and three lab hours per week. Offered every year. (D)*

BIO 005-006 PRINCIPLES OF ANATOMY AND PHYSIOLOGY FOR THE SPECIAL EDUCATOR 6

An analysis of the anatomy and physiology of man designed for the teacher of special students with emphasis on the pathology of the neuromuscular system. This course is designed for the student majoring in special education. *Three lecture hours per week. Offered every year. (D)*

BIO 101 INTRODUCTION TO BIOLOGY I 3

This course introduces the student to the architecture, metabolism and reproduction of plant and animal cells. Basic concepts in genetics, development, evolution and ecology are discussed. A survey of the major plant and animal phyla is made. This course is designed for all non-science majors. *Three lecture hours per week. Offered every Fall. (D)*

BIO 102 INTRODUCTION TO BIOLOGY II 3

This course introduces the student to the organization and function of the human body from cells to systems. Included are selected topics in inheritance, human genetics and immunity. This course is designed for all non-science majors and fulfills one of the science prerequisites in the Elementary School Teacher Training Curriculum. *Three lecture hours per week. Offered every Spring. (D)*

BIO 103-104 GENERAL BIOLOGY I, II 8

This course is designed to examine basic principles in cellular and molecular biology, cellular energetics, genetics, development, ecology and evolution. The organization of plants and animals from cells to integrated systems is discussed and a comparison made between plant and animal phyla. Experiments and dissections are designed to accomplish these objectives. *Two lectures, one recitation and three lab hours per week. Offered every year. (D)*

BIO 106 PRINCIPLES OF ANATOMY AND PHYSIOLOGY FOR THE HEALTH CARE FACILITY SUPERVISOR 3

The functional anatomy and physiology of the parental, normal adult and aging model of the human being is explained. Discussion of relevancy of material for informed decision-making and efficient operation of the health care facility is included. This course is designed for the Health Services Administration major. *Three lecture hours per week. Offered every year. (D)*

BIO 108 BIOLOGICAL RESEARCH TECHNIQUES 3

This laboratory-oriented course consists of a botanical techniques section, a bacteriological techniques section, and a radiation biology section. *Offered every year.*

- BIO 201 EMBRYOLOGY** 4
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. *Prerequisites:* BIO 103-104. *Two lectures, one recitation, and three lab hours per week. Offered Fall of even-numbered years. (D)*
- BIO 202 COMPARATIVE ANATOMY** 4
A comparative lecture and laboratory study of the macroscopic anatomy of typical representatives of the classes of vertebrates. *Prerequisites:* BIO 103-104. *Two lectures, one recitation, and three lab hours per week. Offered every Fall. (D)*
- BIO 203 INVERTEBRATE ZOOLOGY** 4
Major invertebrate phyla with emphasis on taxonomy, structure, physiology, and ecology; field trips to selected local areas for the collection and study of representative invertebrate forms. Laboratory dissection of representative types. *Prerequisites:* BIO 103-104. *Two lectures, one recitation, and three lab hours per week. Offered Fall of odd-numbered years. (D)*
- BIO 204 ECOLOGY** 4
An introduction to ecological principles and their application to the environment; environmental problems; numerous field trips to representative systems. *Prerequisites:* BIO 101 and 102 or 103-104. *Two lectures, one recitation, and three lab hours per week. Offered every summer. (D)*
- BIO 206 HISTOLOGY** 4
A study of the microscopic anatomy of normal animal tissues and organs. The laboratory sections include methods of preparing histological specimens and observation of prepared slides. *Prerequisites:* BIO 103-104. *Two lectures, one recitation, and three lab hours per week. Offered Spring of even-numbered years. (D)*
- BIO 301 MICROBIOLOGY** 4
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. *Prerequisites:* BIO 103-104. *Two lectures, one recitation, and three lab hours per week. Offered Spring of even-numbered years. (D)*
- BIO 302 BOTANY** 4
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. *Prerequisites:* BIO 103-104. *Two lectures, one recitation, and three lab hours per week. Offered Spring of odd-numbered years. (D)*
- BIO 303 GENETICS** 4
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. *Prerequisites:* BIO 103-104. *Two lectures, one recitation, and three lab hours per week. Offered every Spring. (D)*
- BIO 304 BIOLOGICAL TECHNIQUES (Instrumentation)** 4
The theory and practical application of various analytical procedures and the solution of biological problems by instrumentation. A study of the use of centrifuges, pH meters, analytical balances, dialysis techniques, countercurrent distribution application, chromatographic techniques: paper, column, thin layer and gas liquid and spectroscopy (UV-VIS and IR). *Prerequisites:* Departmental approval and BIO 103-104. *Two lectures, one recitation, and three lab hours per week. Offered Fall of even-numbered years. Limited enrollment. (D)*
- BIO 310 CELL BIOLOGY** 4
An introduction to the form and function of cells; a study of the origins of life; cell prototypes and prokaryote; the eukaryotic cell (plant and animal) and its organelles; bioenergetics; the central dogma; and vital activities of various cell types. *Prerequisites:* BIO 103-104 and CHE 101-102. *Two lectures, one recitation, and three lab hours per week. Offered every Fall. (D)*

BIO 402 VERTEBRATE PHYSIOLOGY

4

The basic principles involved in the physiology of vertebrate systems; the physiochemical aspects and homeostatic mechanisms of the functional systems. *Prerequisites:* BIO 103-104. *Two lectures, one recitation, and three lab hours per week. Offered every Spring. (D)*

BIO 403 ENDOCRINOLOGY

4

A survey of the glands of internal secretion; each of the endocrine glands will be considered according to structure, development, synthesis of hormones, regulation of function, action of hormones and the interrelationship with other components of the regulatory system. *Prerequisites:* BIO 103-104. *Three lecture hours per week. Offered Spring of even-numbered years. (D)*

BIO 404 RADIATION BIOLOGY

4

The nature of ionizing radiation and its effects on living matter. Cell death, somatic and genetic effects, effect on the embryo, chronic low-dosage exposure and radiation medicine. Detection of ionizing radiation. Uses of ionizing radiation in medicine and the life sciences. *Prerequisites:* Departmental approval and BIO 103-104; CHE 101-102; 301, 302; PHY 101-102. *Two lectures, one recitation, and three lab hours per week. Offered Spring of odd-numbered years. Limited enrollment. (D)*

BIO 405 IMMUNOLOGY (formerly BIO 406)

3

Erythropoiesis, hemostasis, and immunohematology are discussed. How the immune response is established is analyzed. Different forms of immunity; immunoglobulins; antigen; immunodeficiency; autoimmunity; hypersensitivity; antigen-antibody reactions and serological tests are covered. Classroom demonstrations are included. *Prerequisites:* BIO 103-104. *Three lecture hours per week. Offered Fall of even-numbered years. (D)*

BIO 408 MEDICAL MICROBIOLOGY

3

This course covers the parasitic protozoa, helminths, and arthropoda. Superficial, systemic and opportunistic mycoses together with the actinomycetes are described. Included is a general discussion of rickettsiae, chlamydiae, and viruses. Classroom demonstrations are included. *Prerequisites:* BIO 103-104. *Three lecture hours per week. Offered Spring of odd-numbered years. (D)*

BIO 409 NEUROBIOLOGY

3

The basic organization and function of the vertebrate nervous system are covered. Discussed in detail are the spinal cord, brain stem, limbic system, cerebellum and cerebrum as well as central sensory systems for vision, audition, and equilibrium. Dissections are incorporated to demonstrate critical anatomy. *Prerequisites:* BIO 103-104. *Three lecture hours per week. Offered Fall of even-numbered years.*

BIO 500 INDEPENDENT STUDY

1,2,3

Independent study (laboratory or library) under the direction of a faculty member. *Prerequisites:* Departmental approval. *Offered every semester. Limited to senior students. (D)*

BIO 501 BIOLOGICAL RESEARCH

3

Independent laboratory research under faculty guidance. A completed thesis is required. *Prerequisites:* Departmental approval. *Offered every semester. Limited to senior students. (D)*

BIO 502 BIOLOGICAL RESEARCH

3

Independent laboratory research under faculty guidance. A completed thesis is required. *Prerequisites:* Departmental approval. *Offered every semester. Limited to senior students. (D)*

BIO 503 BIOLOGY SEMINAR

4

Discussion of topics reflecting research and current problems in the biological sciences in a seminar format. Specific areas of discussion vary from semester to semester. Topics are announced prior to termination of the Fall semester. A written paper is required. *Prerequisites:* Limited to upper-level seniors. *Offered every Spring. (D)*

The following courses are offered at Methodist Hospital and satisfy the clinical training requirements for the B.S. degree in Medical Technology (MHB).

MHB 400 CLINICAL BIOCHEMISTRY 8

Introduction to major concepts of basic metabolic pathways and biochemical control mechanisms, including organic and physiological aspects of clinical laboratory procedures with emphasis on analytical and quantitative chemistry as applied to clinical methods. Techniques include absorption spectrophotometry, flame photometry, atomic absorption spectrophotometry, and electrophoresis. Hands-on experience is given in the use of the Astra-8, RA 1000, and SMA 12-60.

MHB 420 HEMATOLOGY 4

Origin and interrelationship of blood cells, their structure in normal and abnormal states and their normal maturation. Disease of both the erythrocyte and leukocyte series are discussed; laboratory diagnosis of these diseases. Routine and special procedures are learned during the students' stay in the laboratory. Instruction in the use of the Technicon 6000 and Coulter S-Plus is given.

MHB 430 COAGULATION 2

Theoretical aspects of blood coagulation in normal and disease states with current laboratory methods employed and practical experience within the lab.

MHB 440 IMMUNOHEMATOLOGY 4

Methods in blood banking with emphasis on genetics and transfusion therapy, including extensive laboratory techniques.

MHB 450 IMMUNOLOGY/SEROLOGY 4

Principles of immunology and serology with emphasis on antibody antigen reaction, disease states and practical application in current laboratory techniques including radioimmunoassays, immunodiffusion, and fluorescence microscopy techniques.

MHB 460 BACTERIOLOGY 4

Identification and classification of all major bacteria of clinical importance. The practical aspects are studied in the lab including isolation techniques, biochemical reactions, and antibiotic sensitivity methods.

MHB 470 MYCOLOGY 2

A study of classification, identification of life cycles and morphologic, physiological, and biochemical aspects of fungi of medical importance; a study of infections they may form.

MHB 480 PARASITOLOGY 2

A study of the life cycle, morphology, transmission potency, pathology and treatment of diseases caused by protozoans, and helminths, along with prevention and distribution of these organisms. All aspects of practical lab work and identification methods discussed with emphasis on immunology and recognition of parasites found in stool, blood, and tissues.

MHB 490 URINE COMPONENTS 2

A study of the physiology of the kidney with emphasis on the composition of urine both chemically and morphologically in disease and normal states. Practical lab work involves knowledge of macroscopic, and chemical analysis of urine. Urinalysis is considered by most physicians as the single most significant lab test.

The following courses are offered at Maimonides Medical Center and satisfy the clinical training for the B.S. degree in Medical Technology (MMC).

MMC 400 CLINICAL BIOCHEMISTRY 5

Introduction to basic major metabolic pathways with discussion of both normal and pathological conditions affecting these pathways. Emphasis is placed on quantitative analytical chemical methods with particular attention paid to clinical methodologies.

- MMC 410 LABORATORY AUTOMATION AND INSTRUMENTATION** 3
The student is introduced to the current state-of-the-art instrumentation in all major areas. Both theoretical and practical aspects of all instruments are taught as the student rotates through each area. Instruction includes the SMA-II, Beckman Astra-8, Blood Gas Analyzers, electrophoresis, immunoelectrophoresis, laser nephelometry, Coulter S-Plus, Coulter S-Plus Four, Diff-4 Counter, Bactec and Beckman 4000 and Nuclear of Chicago Gamma Counters.
- MMC 420 HEMATOLOGY** 4
Origin of structure of both normal and abnormal cells are discussed, as well as the laboratory diagnosis of hematological disorders. Both routine procedures, such as sedimentation rates, as well as the more special procedures of hemoglobin electrophoresis and ANA are also presented. Instrumentation taught includes both cell counters and differential analyzers.
- MMC 430 COAGULATION** 2
Practical and theoretical aspects of blood coagulation are covered, with emphasis placed on the cascade process of coagulation in both normal and disease states. Automation includes the Coagamate 2000 and the Dual Channel Coagulizer.
- MMC 445 ENDOCRINOLOGY** 2
Introduction to basic principles of radioimmunoassay and competitive protein binding are taught, with particular emphasis being placed on the special techniques necessary to do analyses at very low concentrations of metabolites (nano- and picogram) carried out in this area. Tests covered include thyroid function determinations and therapeutic drug monitoring.
- MMC 450 IMMUNOLOGY/SEROLOGY** 4
Basic principles of immunology and serology with particular emphasis on the antigen-antibody reaction are taught. Practical applications include instruction in current laboratory techniques such as RPR's, ASO titers, heterophiles, laser nephelometry and immunodiffusion.
- MMC 460 BACTERIOLOGY** 4
Theoretical aspects of the classification and identification of all bacteria of clinical importance are emphasized. The practical aspects of culturing and sub-culturing, as well as biochemical reactions and antibiotic sensitivity methods are taught. Instruction is given on the Bactec, an instrument for the analysis of blood cultures.
- MMC 470 MYCOBACTERIOLOGY (TB) AND MYCOLOGY** 2
Stains for acid-fast bacilli and chemical testing to identify all mycobacteria and TB are taught. India ink and KOH preparations for direct fungal elements are also taught and positive classification and identification of the fungi is carried out by the Uni-Yeast-Tek system.
- MMC 480 PARASITOLOGY** 2
An outline of the life cycles, pathology and treatment of diseases caused by parasites significant in human illnesses is covered. Practical aspects of the laboratory identification of medically significant parasites found in blood, stool and feces are taught.
- MMC 490 URINALYSIS** 2
The physiology of the kidney, with particular emphasis on the formation and composition of urine is taught. Practical laboratory work involves the dipstick method for identification of certain abnormal metabolites and microscopic analysis for cells and other substances found in the urinary sediment. Direct chemical analyses for other metabolites is also taught.
- MMC 500 LABORATORY COMPUTER** 2
Instruction is given on the theoretical aspects of computer hardware and software. Practical applications include use of the CRT's for entering patient laboratory requests and results, as well as an introduction to running both background and foreground functions on the laboratory computer, such as statistical programs and quality control analysis.

CHEMISTRY AND PHYSICS

Chairman: John M. Burke

Professors: Burke, Quigley, Schneider; **Adjunct:** Hayes

The chemistry and physics program has three principal objectives: (1) to provide the necessary background in chemistry for students in programs such as pre-medicine, pre-dentistry, bio-medical science, medical technology, nursing, occupational therapy, radiologic science, and biology; (2) to provide the necessary background in chemistry for students in teacher training programs and (3) to provide non-science majors with the opportunity to acquire knowledge of our natural and technological environment as explained through chemical principles.

Minor in Chemistry

The minor in chemistry provides a systematic approach to the attainment of a strong background in the area.

Minor Course Sequence in Chemistry	Credits
Chemistry 101; 102.....	8
Chemistry 301; 302	10
Chemistry 304.....	4
Total Credits Required.....	22

Courses in Chemistry (CHE)

CHE 003-004 CHEMISTRY AND LIFE 8
Introduction to basic principles of chemistry; emphasis on application of these principles to living systems and their impact on present-day living. *For students not intending to major in science. Two lecture hours, one conference, and three lab hours per week. Offered in 1986-87 and every other year. (D)*

CHE 101-102 GENERAL CHEMISTRY 8
Emphasis on quantitative aspects of chemistry at a more specialized level than in Chemistry 003-004. *For science majors. Two lectures, one conference, and three lab hours per week. Offered every year. (D)*

CHE 201 ANALYTICAL CHEMISTRY 4
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. *Prerequisite: CHE 102. Two lectures, one conference, and three lab hours per week. Offered in Fall 1986. (D)*

CHE 301, 302 ORGANIC CHEMISTRY 10
Aromatic and aliphatic compounds; reaction mechanisms based on electronic theory; preparation of representative compounds and quantitative analysis. *Prerequisite: CHE 102. Three lectures, one conference, and four lab hours per week. Offered every year. (D)*

CHE 303 INORGANIC CHEMISTRY 3
The study of bonding, structure, and reactions of inorganic compounds based on modern physical chemical concepts; coordination compounds and organometallic compounds. *Prerequisite: Department approval. Three lecture hours per week. Offered in Fall 1986.*

CHE 304 BIOCHEMISTRY 4
Physio-chemical approach; amino acids, proteins, carbohydrates, lipids, enzymes, intermediate metabolisms; modern techniques for isolation, identification, and determination of biochemical significance. *Prerequisite: CHE 301. Two lectures and four lab hours per week. Offered every Spring. (D)*

CHE 401-402 PHYSICAL CHEMISTRY 8
Atomic, molecular, and crystal structure; thermodynamics; solution properties; chemical kinetics; electrochemistry. *Prerequisites: Department approval. Three lectures and four lab hours per week. Offered in 1986-87 and every other year. (D)*

CHE 403 ADVANCED PHYSICAL CHEMISTRY 3
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. *Prerequisite: Department approval. Three lecture hours per week. Offered when needed. (D)*

CHE 404 INSTRUMENTAL METHODS OF ANALYSIS 4
Theory and laboratory work in spectroscopy, absorption, and emission; electro-analytical chemistry and chromatography as they apply to analytical chemistry. *Prerequisite: Department approval. Two lectures and five lab hours per week. Offered in Spring 1986. (E)*

CHE 405 ADVANCED ORGANIC CHEMISTRY 3
Physical organic chemistry; emphasis on structure and reaction mechanisms; free radical chemistry. *Prerequisite: Department approval. Three lecture hours per week. Offered when needed. (D)*

CHE 501, 502 CHEMICAL RESEARCH 2
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. *Prerequisite: Departmental approval. Offered every year. (D)*

Course in Physics (PHY)

PHY 101-102 GENERAL PHYSICS 8
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. *Prerequisite or corequisite: MAT 202. Two lectures, two recitations, and two lab hours per week. Offered every year. (D)*

Courses in Science (SCI)

SCI 201 FORTRAN 4
The functions and capabilities of a digital computer and the FORTRAN programming language. *Offered every Spring. (D)*

SCI 301, 302 GENERAL EARTH SCIENCE 6
A study of the solar system; basic concepts of climate; study of the structure and composition of the earth. *Two lectures and two hours of laboratory and demonstration each week. Offered every year. (D)*

SCI 303 GENERAL EARTH SCIENCE FOR TEACHERS 3
A study of the solar system; basic concepts of climate; study of the structure and composition of the earth. Laboratory experiments and demonstrations exemplify techniques suitable for elementary science instruction. This course is for elementary and special education teacher training students. *Offered every Fall. (D)*

SCI 501 OCEANOGRAPHY 3
A study of the sea from biological, chemical, geological, and physical viewpoints; ocean sediments and their origin; composition of sea water, currents, tides, beaches, waves, economic potential of oceans; explorations as an energy source. *Offered every Fall. (E)*

SCI 601 ENVIRONMENTAL SCIENCE 3
The ecology of natural systems; resources and energy; formation and consumption of fossil fuels, nuclear energy, and the environment; pollution; the problems associated with air and water pollution, solid waste, noise, legal and economic verifications of governmental policy towards pollution. *Offered every Spring. (E)*

COMMUNICATIONS

Chairman: Edward Setrakian

Professors: Setrakian, Vigliano; **Adjuncts:** Gioseffi, Kellstrom, Munroe, Rogoff.

The program aims to contribute significantly to a sound liberal arts education, offering a range of courses in the communication fields of advertising, film and broadcasting, and speech and theatre. From these three areas of study, students prepare for careers in the creative and business aspects of advertising, public relations, television and film production, business communications and sale, and such theatre arts and crafts as producing, playwriting, directing and acting. The department curriculum also prepares students for graduate work in these communication disciplines. The department offers a major in communications with three possible areas of concentration: advertising, film and broadcasting, and speech and theatre.

Major in Communications with Concentration in Advertising Course Sequence

	Credits
Core Curriculum including English 373 (see page 30)	42
English 391; 392.....	6
Psychology 201	3
Sociology 309.....	3
Foreign Language, Mathematics 301, Sociology 406 or Computer Information Systems 101—two courses	6
Administration 201; 315, Business 101, Marketing 201; 202 and 307	18
Communications 205; 302; 303; 304; 305 or 306; 307; 308; 309; 401; 404; 410; 503	36
Electives	12
Health Science 100A, Health Science 100B/Physical Education 100A or Physical Education 100 (B-H)	2
Total Credits Required.....	128

Major in Communications with Concentration in Film and Broadcasting Course Sequence

	Credits
Core Curriculum including English 373 (see page 30)	42
English 372; 391; 392.....	9
Psychology 201	3
Sociology 309.....	3
Foreign Language, Mathematics 301, Sociology 406 or Computer Information Systems 101—two courses	6
Communications 205; 302; 303; 304; 305; 306; 308; 309; 401; 402; 404; 405; 409; 410	42
Electives	21
Health Science 100A, Health Science 100B/Physical Education 100A or Physical Education 100 (B-H)	2
Total Credits Required.....	128

Major in Communications with Concentration in Speech and Theater Course Sequence

Credits

Core Curriculum including English 373 (see page 30)	42
English 254; 372; 391; 392	12
Psychology 201	3
Sociology 309	3
Foreign Language, Mathematics 301, Sociology 406 or Computer Information Systems 101—two courses	6
Communications 205; 301; 302; 303; 304; 305 or 306; 308; 401; 404; 405; 407; 409; 410; 503; 505	45
Electives	15
Health Science 100A, Health Science 100B/Physical Education 100A or Physical Education 100 (B-H)	2
Total Credits Required	128

Courses in Communications (COM)

COM 203 FUNDAMENTALS OF SPEECH 3
An introduction to phonetics, basic diction, and the practice of extemporaneous speaking, organized according to purpose, such as speaking to persuade, to inform or to entertain. Students receive an analysis and correction of individual speech problems. *Offered every semester. (D,E)*

COM 205 VOICE AND DICTION 3
A study of speech production designed to improve voice and diction and specific speech problems such as proper breathing, voice production, tone, articulation and foreign accents. The International Phonetic Alphabet is studied and utilized in this course. Strongly recommended to correct foreign dialects. *Offered every semester. (D,E)*

COM 301 ORAL INTERPRETATION
Presentation and analysis of selections from prose, poetry and plays. The objective of the course is to broaden oral communication skills by teaching the student to comprehend and interpret these forms of literature for the purpose of effectively communicating them in oral presentations. *Prerequisite: COM 203. Offered every Fall. (D,E)*

COM 302 PERSUASION 3
A study of value, attitude, and behavior change in the communication process. This course will emphasize persuasive techniques, blending scientific theory about communication with the practical experience of those involved in persuasion (e.g., business law, teaching, healing profession, etc.) and the tradition of rhetoric and persuasion found in our Western heritage. The purpose of the course is to provide students with an understanding of the persuasive communicators in the real world. Uses and abuses of persuasive methods, tactics and strategies in business, law, advertising and mass media will also be examined and explored. *Prerequisite: COM 203. Offered in Fall of even-numbered years. (D,E)*

COM 303 INTERPERSONAL COMMUNICATION
Introduction to basic principles of interpersonal communication. The course presents both a theoretical perspective and a practical application of the concepts through student activities and exercises. Areas of investigation include communication theory, communication models, perception, language, communication breakdowns, non-verbal communication, self concept, social roles, listening and conflict management. *Offered every Spring. (D,E)*

COM 304 MASS COMMUNICATION 3
A survey of the electronic and print media in America, including radio, television, cable, commercial filmmaking, newspapers and magazines, examining their history, economic functions and social roles. Current political controversies regarding the media are examined, as is the impact of social and technological change upon the media. *Offered every Fall. (D,E)*

- COM 305 HISTORY OF FILM** 3
A survey of major film styles, directors and movements in international cinema from 1890 to the present. The basic techniques of filmmaking are explored, as are fundamental topics in film theory and criticism. *Offered every Fall. (D,E)*
- COM 306 STUDIES IN FILM** 3
A study of selected topics, filmmakers and film genres in cinema history, emphasizing the techniques employed which are specific to film and the contribution of film directors, writers and cinematographers. *Offered every Spring. (D,E)*
- COM 307 ADVERTISING** 3
A course investigating functions and techniques, including a study of copywriting, outdoor advertising, layout, typography, print and broadcast media, and market research. The course consists of lectures and field trips to commercial art studios, ad agencies, television ad departments, and to magazine and public relations firms. *Prerequisite: COM 304. Offered every Fall. (E)*
- COM 308 TELEVISION STUDIO PRODUCTION** 3
The study of radio and television directing and camera work, floor supervision, audio operation, and control room operation. Students produce several television segments such as news, commercials, and dramatic programs. *Prerequisite: COM 304. (Lab fee.) Offered every semester. (D)*
- COM 309 TOPICS IN MASS COMMUNICATION** 3
An advanced course which investigates selected problems and controversies in the contemporary mass media. Topics include censorship and legal issues, the artistic strategies of popular culture forms and new technologies and opportunities in the electronic media. *Prerequisite: COM 304. Offered Spring of even-numbered years. (D,E)*
- COM 401 BASIC FILM AND VIDEO PRODUCTION** 3
An introduction to Super 8 filmmaking and half-inch portable video production. Students produce several individual projects in both film and video, mastering the skills of scriptwriting, storyboarding, cinematography, editing and sound mixing. *Prerequisites: COM 305 or COM 306. (Lab fee.) Offered every semester. (D,E)*
- COM 402 ADVANCED FILM AND VIDEO PRODUCTION** 3
An advanced course in film and portable video production, emphasizing the application of more complex production and post-production techniques in both dramatic and documentary projects. *Prerequisite: COM 401. (Lab fee.) Offered every Spring. (D)*
- COM 403 FILM CRITICISM** 3
An advanced course in film analysis and writing, examining the relationship between film theory, criticism and production. Emphasis is placed on close analysis of specific films and examples of film literature. Students write several critical essays on films seen both inside and outside of class. *Prerequisites: COM 305 and 306. Offered Fall of even-numbered years. (D,E)*
- COM 404 ACTING I** 3
An introduction to the basic techniques and theories of acting. Students perform exercises in the fundamentals of voice, movement and concentration. Performance of contemporary dramatic scenes provides students with the opportunity to practice scene and character analysis. *Prerequisite: COM 203. Offered every Fall. (D,E)*
- COM 405 FILM, TELEVISION AND THEATER PRODUCTION** 3
A study of the production process. Similarities and differences of production methods are examined and analyzed. Although creative functions of production are explored, the course also emphasizes funding, administration, pre-production, and post-production aspects of film, television, and theater. The course is conducted through lectures, reading, oral reports and discussion. It is not in a production workshop format. *Offered Spring of even-numbered years. (D)*
- COM 407 ACTING II (formerly SPE 407)** 3
A study of various acting techniques employed in theater, radio, television, and film. Contemporary scenes are video-taped and played for discussion and analysis. Scenes from classic dramatic literature are also performed, directed and evaluated. Radio acting techniques are also examined. Conducted as a workshop. *Prerequisite: COM 404. Offered every Spring. (D,E)*

- COM 408 THEATER IN PERFORMANCE** 3
Performance style and techniques in modern theater. The class meets alternately at St. Francis College and a specified New York theatre or studio. At least five professional productions are seen. The productions represent a variety of performance styles from the conventional to the *avant garde*. In addition to tuition, theater ticket fees will vary with productions. All St. Francis meetings analyze the productions in light of modern trends. Depending upon availability, guest performers, writers and directors associated with the productions, are interviewed by the class. Grade is determined by written examination. *Offered Fall of odd-numbered years. (E)*
- COM 409 DIRECTING** 3
A study of directing in film, radio, television, and theater. Students direct documentaries, commercials, new features, and special film and television features. *Prerequisite: COM 308 and 401. Offered Fall of even-numbered years. (D)*
- COM 410 WRITING FOR PERFORMANCE** 3
An introductory survey of the writing techniques and skills for theater, film and television. Students study format, characterization, scene construction, dialogue, narrative, and basic structure of those media. The course includes analysis of plays, screenplays, documentaries, industrial and commercials. Student scripts are read and analyzed. *Prerequisites: ENG 103, 391, COM 304 or 306. Offered Spring of even-numbered years. (D,E)*
- COM 500 INDEPENDENT STUDY** 3
A research project concentrating in one area of communication. A written and an oral report is required at the end of the study. *Offered as students qualify. (D,E)*
- COM 501 DOCUMENTARY FILM AND VIDEO WORKSHOP** 3
An advanced course in the special problems and techniques of documentary film and video production, covering areas of direction, script writing, and pre-production and the specific production and post-production skills used in a documentary. Students in the course collaborate on several production products as well as analyze examples of documentary formats in film and television. *Prerequisites: COM 401 and 402. (Lab fee.) Offered Spring of odd-numbered years. (D)*
- COM 503 SMALL GROUP DISCUSSION** 3
An examination of the dynamics of small group communication theory and process in actual day-to-day small group experiences. The course focuses primarily on problem-solving groups using the case-study approach. Areas of exploration include leadership, participation, roles, norms, conflicts, cohesiveness, consensus, productivity, member satisfaction, group formats, problem-solving agenda systems and group discussion techniques. *Offered every Fall. (D,E)*
- COM 505 THEATER PRODUCTION WORKSHOP** 3
Although open to all students this is a theater production course designed for students in the theatre track of the communications major. Students produce, direct and perform in a series of scenes and/or plays that will evolve as a complete production. Although the entire production process is supervised and moderated by the course instructor, the students are responsible for the creative process. When available, professional actors, writers and directors participate in the workshop. The course meets once weekly. The completed production is open to the public in the last session. *Prerequisites: COM 404 and COM 407. Offered Fall of even-numbered years. (D)*
- COM 600 FIELD EXPERIENCE (Internship)** 1-15
A student with significant accomplishments in the department may be granted permission by the department chairman to engage in field experience. Assignments depend on the availability of suitable programs. The instructor assigned to consult in the study agrees to guide and evaluate the quality of work and research undertaken. The field experiences must relate to the area of communication in which the student has specialized in the department. The number of credits awarded is determined by the department chairman. The student must maintain a comprehensive daily log of work activities, and must attend a series of seminars during the field experience period. *Prerequisites: Permission of department chairman. Up to 15 credits may be earned. Offered as students qualify. (D)*

ECONOMICS

Chairman: Paddy Quick

Professor: Casey; **Associate Professor:** Quick; **Assistant Professor:** Krogdahl;
Adjuncts: Dayhim, Giangreco, Gladstone, Manzell.

Major in Economics

The department offers a unique course of study leading to a major in economics. The study of economics prepares students for careers in business, government, and education. While all economics majors enjoy the advantages of a liberal arts education, they have the opportunity to specialize in business subjects such as accounting and management, or in such subjects as foreign languages and mathematics, which equip them for jobs upon graduation.

Economics also provides an excellent preparation for graduate work, whether in the field of business, law, public administration, or economics, and the curriculum provides students with the flexibility to select appropriate electives for such work.

Major Course Sequence in Economics	Credits
Core Curriculum including Mathematics 109; 110 (see page 30)	42
Twelve credits in Accounting, Management, Foreign Languages, Mathematics, organized in the form of either two 6-credit sequences or one 12-credit sequence.....	12
History 101 and 102 or 401 and 402	6
Mathematics 301	3
Political Science 204	3
Economics 201; 202; 306; 400; 406; 411; and 300/400 level electives	33
Electives	27
Health Science 100A, Health Science 100B/Physical Education 100A or Physical Education 100 (B-H)	2
Total Credits Required.....	128

Minor in Economics

A minor in economics provides students with an introduction to the basic principles of the discipline and an opportunity to explore their application to contemporary issues. As such it can provide a valuable supplement to the educational experience of students in both the professional programs and liberal arts.

Minor Course Sequence in Economics	Credits
Economics 201; 202; 306	9
Four elective courses of which at least one must be at the 400 level.....	12
Total Credits Required.....	21

Economics-Business Options

Economics majors wishing to specialize further in business may select one of two programs: Finance or Marketing. Note that courses required for these options may also be used to fulfill the 12-credits in two 6-credit sequences in management required of economics majors. Thus, the finance option requires a minimum of 6 additional credits, and the marketing option requires a minimum of 9 additional credits.

Finance Option Course Sequence

Credits

Business 101	3
Accounting 101, 102	6
Finance 301.....	3
Finance 302	3
Finance 312.....	3
Total Credits Required.....	18

Marketing Option Course Sequence

Credits

Business 101	3
Marketing 201	3
Marketing 202	3
Marketing 307	3
Marketing 309	3
Marketing 407	3
Human Resources 210	3
Total Credits Required.....	21

Courses in Economics (ECO)

ECO 201 PRINCIPLES OF MACROECONOMICS 3
Macroeconomics; 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. *Offered in Fall 1986. (D,E)*

ECO 202 PRINCIPLES OF MICROECONOMICS 3
Microeconomics; markets, the price system, and the allocation of resources; competition, monopoly, monopolistic competition, and oligopoly; government and business; the distribution of income. *Offered in Spring 1987. (D,E)*

ECO 302 ECONOMIC DEVELOPMENT OF THE UNITED STATES 3
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 distribution of national income; the depression and New Deal; the United States in the international economy. *Offered in Spring 1987. (D)*

ECO 303 ECONOMIC ISSUES TODAY 3
An examination of significant contemporary economic problems; the application of economic understanding of current issues, domestic and worldwide; typical relevant issues such as consumerism, environmental adjustments, national economic priorities, the monopoly threat, the United States in the world economy, etc. *Offered in Spring 1987. (D,E)*

ECO 306 MONEY AND BANKING 3
Money and credit; commercial banking; central banking; monetary theory and monetary and fiscal policy; other banking and credit institutions. *Offered every semester. (D,E)*

ECO 307 ENVIRONMENTAL ECONOMICS 3
An examination of basic ecological principles and economic principles as they relate to the problems of the environment; an analysis of programs of business and government to ameliorate the environmental effects of production and waste disposal to improve the quality of life. *Offered in Fall 1986. (D)*

ECO 308 URBAN ECONOMICS 3

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. *Offered in Fall 1986. (D)*

ECO 309 LABOR ECONOMICS 3

An examination of labor concepts, markets and problems; manpower economics, human resources, and labor markets; the development of the union movement and its impact on society; modern labor legislation, the development of collective bargaining, and full employment concepts; unemployment, insecurity, and the operations of the labor market; government in labor problems; the theories of wages and unemployment. *Offered in Fall 1986. (D)*

ECO 312 GOVERNMENT FINANCE 3

Analysis of the role of government in the national economy; consideration is given to the growth of the public sector, the U.S. federal budget, the ordering of our national priorities among various public programs, the public debt and fiscal policy, the U.S. tax structure, personal and corporate income taxation, capital gains taxation and tax reform. *Offered in Spring 1987. (D)*

ECO 316 WORKSHOP IN PERSONAL FINANCE 3

A lecture-discussion course intended to familiarize the student with the many aspects of his/her personal finance situation; personal budgeting, investments, credit usage, mortgages, insurance protection, and related topics are covered. *Offered in Spring 1987. (E)*

ECO 317 CONTEMPORARY ECONOMIC SYSTEMS 3

An examination of major economic systems in the contemporary world; the system of capitalism and the American form; the command economy of the Soviet Union; the mixed economies of Western Europe and Japan; the market socialism of Yugoslavia; the role of economic planning in various systems; evaluation of the performances of economic systems. *Offered in Fall 1986. (D)*

ECO 318 ECONOMIC ISSUES AND THE AGED 3

Analysis of economic factors associated with the aged, implications for individuals, poverty, the economy, life cycle economics, retirement, income maintenance, and social security. *Offered in Fall 1986. (D)*

ECO 320 ECONOMICS OF INDUSTRY 3

Micro-economic analysis of such business practices as price fixing, price discrimination, exclusive and reciprocal buying, predatory pricing, resale price maintenance, product differentiation, and advertising, vertical integration and diversification, research and development. Examination of evidence regarding the prevalence and importance of such phenomena, and analysis of their effects on resource allocation and consumer welfare. Critical examination of economic arguments for and against anti-trust and other types of governmental regulation of business conduct. *Offered in Spring 1987. (D)*

ECO 400 SEMINAR IN ECONOMICS 3

Principles of research; bibliography; the application of statistical methods to a specific problem of individual research; recent developments in applied economics. *Prerequisite: ECO 201, 202. Offered in Spring 1987. (D)*

ECO 403 INTERNATIONAL ECONOMICS 3

Principles, practices, and problems of world trade; equilibrating the balance of payments through domestic and exchange rate adjustments; the effect of world trade on national income and output; international trade and domestic employment; regional economic integration: the International Monetary Fund and dollar depreciation; foreign direct investment and multi-national corporation; reasons for leaving the gold standard; new problems such as floating exchange rates. *Prerequisite: ECO 201 or 202. Offered in Fall 1986. (D)*

ECO 406 DEVELOPMENT OF ECONOMIC THOUGHT

3

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; monetarism. *Prerequisite: ECO 201, 202. Offered in Spring 1987. (D)*

ECO 411 CONCEPTS IN ECONOMIC ANALYSIS

3

An analysis of the most important concepts in the representation of the operation of both the aggregate economy and price theory; general economic concepts; concepts concerned with the macroeconomic framework behavior and policy; concepts involved with market types, value, distribution, employment, cost-benefit analysis, and economic inequality. *Prerequisite: ECO 201, 202. Offered in Fall 1986. (D)*

ECO 500 INDEPENDENT STUDIES

3

Individual research and study with the approval of the department of economics. *Offered every semester as students qualify. (D)*



EDUCATION

Chairman: Brother Vincent Healy

Professor: Healy; **Instructors:** DiBenedetto, Giardina, Hughes; **Adjuncts:** Casey, Gross, Johnson, Mahoney, McLaughlin, Moore.

The Department of Education offers courses required for teacher certification by New York State and the Board of Education of the City of New York. Students are prepared to meet the Certificate of Qualification requirements for New York State Provisional Certification in (a) Elementary Education (N-6) or (b) Secondary Education (7-12) with a major in accounting and business practice, biology, English, mathematics or social studies or (c) Physical Education (K-12), or (d) Special Education.

Students interested in teaching should consult with the chairman of the Department of Education during the freshman year in order to discuss professional and subject requirements. Prior to being accepted into the Teacher Training Program, students must submit the results of a speech test to the chairman of the Department of Education. Students entering the teaching training program may not be on probation, must maintain a 2.5 overall index, and a 3.00 index in their major subject field and professional education studies. Students are urged to observe the program requirements in their chosen field and are held responsible for choice and successful completion of the programs as outlined for them.

All programs for students in teacher education must be approved by the chairman of the Education Department. The chairman is the official advisor for the department. Further guidance may be obtained from the members of the Education Department. Students must take the minimum number of semester hours in professional education, as indicated in each particular program.

Students are eligible for license examinations of the Board of Education of the City of New York. This license is recognized by the New York State Department of Education as sufficient for eligibility to teach in all school districts of New York State, except Buffalo.

The Education Department recommends those students who successfully complete the approved program in Competency-Based Teacher Preparation for certification to teach in elementary or secondary schools of New York State. In making this recommendation, the Education Department requires a balance of preparation in three areas of study: (1) general-liberal education; (2) academic or subject areas; (3) professional studies in education consisting of theory and field-based experiences (observation, peer teaching, micro teaching, tutoring and supervised student teaching).

Students completing one of the Competency-Based Teacher Preparation Programs will be eligible to complete the fifth year requirement of permanent certification at another institution on a full or part-time basis.

A competent teacher is well trained in liberal arts, subject specialty and pedagogic behavior. The Competency-Based Program for teacher training students at St. Francis College is a threefold development of the individual person, as outlined below:

1. The Liberal Arts Foundation
Elementary and Secondary Programs:
 - a) Societal Background—Fine arts, history, English, speech, sociology, Spanish, and health studies
 - b) Scientific Background—Mathematics and science studies
 - c) Philosophic Background—Logic, theory of knowledge, and moral philosophy

2. Subject Specialty Foundation
 - a) Elementary Program:
English, mathematics and social studies
 - b) Secondary Program:
Accounting and business practice, biology, mathematics, English and social studies
 - c) Physical Education (K-12)
 - d) Special Education Program:
English, mathematics and social studies

3. Pedagogic Behavior
 - a) Theory
 - I. Elementary Program:
History and philosophy of education, curriculum, child psychology, special methods, public relations, and tests and measurements
 - II. Secondary Program:
History and philosophy of education, principles and problems of secondary education, special methods, educational psychology, and test and measurements
 - III. Physical Education:
History and philosophy of education, educational psychology, test and measurements, special methods
 - IV. Special Education Program:
History and philosophy of special education, psychology of the exceptional child, health for the special person, movement experience and games of low organization in special education, movement perspectives for exceptional children, diagnosis and treatment of reading disabilities for special education, special methods of teaching arts and crafts to special children, tests and measurements in special education
 - b) Field Experience
Observation, peer teaching, micro teaching, peer testing, micro testing, tutoring.
 - c) Internship
Student teaching

The courses in the Department of Education include subject theory and field-centered experience in observation, peer teaching/micro teaching, or tutoring to demonstrate competency attainment. A performance index of 3.25 is required to demonstrate competency attainment in the field-centered experiences.

Programs in Education

Certification in Elementary Education

B.A. in English or Social Studies, with Elementary School Teacher Training Program (N-6 NY State Provisional Certification)

B.S. in Mathematics with Elementary School Teacher Training Program (N-6 NY State Provisional Certification)

Certification in Secondary Education

B.A. in English or Social Studies with Secondary School Teacher Training Program (7-12 NY State Provisional Certification)

B.S. in Accounting and Business Practice, Biology and Mathematics with Secondary School Teacher Training Program (7-12 NY State Provisional Certification)

Certification in Physical Education (K-12)

B.S. in Physical Education Teacher Training Program (K-12 NY State Provisional Certification)

Certification in Special Education

B.A. in English or Social Studies with Special Education Teacher Training Program (N-6 NY State Provisional Certification)

B.S. in Mathematics with Special Education Teacher Training Program (N-6 NY State Provisional Certification)

Elementary School Teacher Training Curriculum

English Major Course Sequence	Credits
Core Curriculum including Mathematics 103; 104 (see page 30).....	42
Education 201; 202; 312; 402; 404; 411A; 431 or 411E; 411F; 411G; 411H; 411I; 411J; 411K; 434.....	39
English 199; 401J or 401K or 401M; 402A or 402B; 220 or 222 (formerly 122); 300/400 level electives.....	24
Psychology 203.....	3
Science 301 or 302 or 303 and BIO 102.....	6
Health Science 100A or Health Science 100B/Physical Education 100A or Physical Education 100 (B-H).....	2
Electives.....	12
Total Credits Required.....	128

Mathematics Major Course Sequence	Credits
Core Curriculum including Physics 101-102 (see page 30).....	44
Education 201; 202; 312; 402; 404; 411A; 411E or 431; 411F; 411G; 411H; 411I; 411J; 411K; 434.....	39
Mathematics 202; 203; 301; 304; 305; 401; 415; 300/400 level electives...	32
Psychology 203.....	3
Science 301 or 302 or 303 and BIO 102.....	6
Health Science 100A or Health Science 100B/Physical Education 100A or Physical Education 100 (B-H).....	2
Electives.....	2
Total Credits Required.....	128

Social Studies Major Course Sequence	Credits
Core Curriculum including Mathematics 103; 104 (see page 30).....	42
Economics 201-202	6
Education 201; 202; 312; 402; 404; 411A; 411G; 411H; 411I; 411E or 431; 411F; 411J; 411K; 434	39
History 101; 201; 307 or 311; 401; 402; 303 or 406	18
Political Science 204; 300/400 level course	6
Psychology 203.....	3
Science 301 or 302 or 303 and BIO 102.....	6
Sociology 301	3
Health Science 100A or Health Science 100B/Physical Education 100A or Physical Education 100 (B-H)	2
Electives	3
Total Credits Required.....	126

Secondary School Teacher Training Curriculum

Accounting and Business Practice Major Course Sequence	Credits
Core Curriculum including Mathematics 109; 110 (see page 30)	42
Accounting 101; 102; 201; 202; 303; 405; and 300/400 level electives.....	21
Business Law 201; 202	6
Economics 201; 202; 306; 311	12
Education 201; 301; 302; 401J; 401K; 402; 404	23
History 401	3
Business 101	3
Computer Information Systems 101	3
Mathematics 301.....	3
Health Science 100A or Health Science 100B/Physical Education 100A or Physical Education 100 (B-H)	2
Electives	10
Total Credits Required.....	128

Biology Major Course Sequence	Credits
Core Curriculum including Mathematics 202; 203 (see page 30)	43
Chemistry 101-102.....	8
Education 201; 301; 302; 401H; 402; 404.....	21
Foreign Language.....	6
Physics 101-102	8
Science 301-302	6
Biology 103-104; 303; and 200/300/400 level electives	24
Health Science 100A or Health Science 100B/Physical Education 100A or Physical Education 100 (B-H)	2
Electives	10
Total Credits Required.....	128

English Major Course Sequence	Credits
Core Curriculum (see page 30)	42
Education 201; 301; 302; 401C; 401G; 402; 404	24
Foreign Language.....	12
History 401	3
Mathematics or Science*	6
Speech 301	3
English 199; 401J or 401K or 401M; 402A or 402B; 222 (formerly 122); and 300/400 level electives	30
Health Science 100A or Health Science 100B/Physical Education 100A or Physical Education 100 (B-H)	2
Electives	6
Total Credits Required.....	128

*If mathematics is used to satisfy the Core Curriculum requirement, then science must be selected or vice versa.

Mathematics Major Course Sequence	Credits
Core Curriculum including Biology 103-104 or Chemistry 101-102 (see page 30)	44
Education 201; 301; 302; 401E; 402; 404	21
Foreign Language.....	6
Physics 101-102	8
Mathematics 202; 203; 304; 305; 309; 401; 415; and 300/400 level electives.....	37
Science 201.....	4
Health Science 100A or Health Science 100B/Physical Education 100A or Physical Education 100 (B-H)	2
Electives	6
Total Credits Required.....	128

Social Studies Major Course Sequence	Credits
Core Curriculum (see page 30)	42
Economics 201; 202	6
Education 201; 301; 302; 401F; 402; 404	21
Foreign Language.....	12
History 101; 102; 305; 306; 307; 311; 401; 303 or 406	24
Mathematics or Science*	6
Political Science 204 and 300/400 level electives	6
Sociology 300/400 level electives	3
Health Science 100A or Health Science 100B/Physical Education 100A or Physical Education 100 (B-H)	2
Electives	6
Total Credits Required.....	128

*If mathematics is used to satisfy the Core Curriculum requirement, then science must be selected or vice versa.

Physical Education (K-12) Teacher Training Curriculum

Physical Education Major Course Sequence

	Credits
Core Curriculum including Biology 003-004 (see page 30)	44
Chemistry 003-004 or 101-102*	8
Health Science 101	3
Psychology 201; 203	6
Physical Education (four skills from I to X); 103; 105; 205; 208; 209; 211; 301; 302; 304; 305; 308; 402; 403; 450	38
Health Science 100A or Health Science 100B/Physical Education 100A or Physical Education 100 (B-H)	2
Electives	9
Total Credits Required.....	128

*Students planning to pursue work in physical therapy, physiology or exercise, or other science-related graduate programs are recommended to take Chemistry 101-102 (see the chairman).

Special Education Teacher Training Curriculum

English Major Course Sequence

	Credits
Core Curriculum including Science (Biology 005-006) (see page 30)	42
Education 411A; 411S; Psychology 203; Science 303	12
English 199, 222 or 220; 401J or 401K or 401M; 402A or 402B; 300/400 electives	30
Mathematics	6
Special Education 101; 201; 202; 301; 302; 401; 402; 403; 404	30
Health Science 100A or Health Science 100B/Physical Education 100A or Physical Education 100 (B-H)	2
Liberal arts electives	6
Total Credits Required.....	128

Mathematics Major Course Sequence

	Credits
Core Curriculum including Science (Biology 005-006) (see page 30)	42
Education 411A; 411S; Psychology 203; Science 303	12
Mathematics 202; 203; 301; 304; 305; 401; 415; 300/400 electives.....	31
Physics 101-102	8
Special Education 101; 201; 202; 301; 302; 401; 402; 403; 404	30
Health Science 100A or Health Science 100B/ Physical Education 100A or Physical Education 100 (B-H).....	2
Liberal arts electives	3
Total Credits Required.....	128

Social Studies Major Course Sequence	Credits
Core Curriculum including Science (Biology 005-006) (see page 30)	42
Education 411A; 411S; Psychology 203; Science 303	12
Mathematics	6
History 101; 102; 307 or 311; 401; 402; 406 or 303	18
Economics 201; 202	6
Political Science 204	3
Sociology 301	3
Special Education 101; 201; 202; 301; 302; 401; 402; 403; 404	30
Health Science 100A or Health Science 100B/Physical Education 100A or Physical Education 100 (B-H)	2
Liberal arts electives	6
Total Credits Required	128

Minors in Physical Education

Current legislative demands for physical education for the handicapped, the nation's concern to improve physical fitness levels of all individuals, and the need for athletic coaches in educational, as well as community settings, have created many job opportunities. St. Francis College has initiated curricula to prepare students to occupy these physical education related positions. Through course work and field experience in a selected area within physical education, students will be provided with the knowledge and skills required to function as professionals. Selecting one of the following minors in physical education may supplement studies in business, industry, the arts, or education.

1. Physical Education for the Handicapped Course Sequence	Credits
Prerequisite: Biology 003-004	8
Physical Education 208	3
Physical Education 302	3
Physical Education 308	3
Special Education 201	3
Physical Education 450	2
Total Credits Required	22

2. Exercise and Fitness Specialist Course Sequence	Credits
Prerequisites: Biology 003-004, Chemistry 003	12
Physical Education 208	3
Physical Education 305	3
Physical Education 450 and one course selection from: Physical Education 100A or Physical Education 100B	4
Total Credits Required	22

3. Athletic Coaching Course Sequence	Credits
Prerequisites: Biology 003-004, Chemistry 003	12
Physical Education 305	3
Physical Education 403	3
Physical Education 304	2
Physical Education 316	2
Total Credits Required	22

Courses In The Elementary Teacher Training Program (ED)

- ED 101 SEMINAR: PREPARATION OF LIFE EXPERIENCE PORTFOLIO** 1
Required of students preparing to apply for life experience credits. An explanation of the procedures and instruction in the preparation of the portfolio. *Prerequisite: Matriculation in a Bachelor's degree program. Offered every semester. (E)*
- ED 201 FOUNDATION OF EDUCATION: HISTORY AND PHILOSOPHY** 3
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. *On Campus: 30 hrs. Field-Centered Experience: Observation — 15 hrs. Offered every semester. (D)*
- ED 202 INTRODUCTION TO THE EDUCATION OF CHILDREN AND YOUTH** 3
A study of individual differences among children; educationally disadvantaged children, elementary and secondary classroom techniques; basic school problems. *On Campus: 30 hrs. Field-Centered Experience: Observation — 15 hrs. Offered every Fall. (D)*
- ED 312 FOUNDATIONS OF CURRICULUM IN ELEMENTARY EDUCATION** 3
Basic conceptual treatment of child growth and development; curriculum and methods as they apply to the elementary school and early education. *On Campus: 45 hrs. Field-Centered Experience: Peer Teaching. Offered every Spring. (D)*
- ED 402 TESTS AND MEASUREMENTS** 3
Designed for future teachers. Principles of basic statistics related to collecting, treating and interpreting data; the use of standardized tests (intelligence, aptitude, achievement, etc.) in a school situation; the construction and the improvement of classroom tests, and the use of test results by the administrator, teacher, and guidance counselor. *On campus: 45 hrs. Field-Centered Experience: Peer testing/Micro testing. Offered every semester. (D)*
- ED 404 OBSERVATION AND SUPERVISED PRACTICE TEACHING** 6
During senior year, students in the teacher training program will spend a minimum of one term of full time, daily supervised instructional experience in an approved secondary or elementary school. Students will complete a log of teaching experiences. Aside from the normal school experience, the student will be expected to attend individual and group conferences with the college supervisor and cooperating teacher. *Prerequisite: Approval of department chairman and completion of all other course work. On Campus: 14 hrs. Field-Centered Experience: Full-time teaching. Offered every semester. (D)*
- ED 411 SPECIAL METHODS IN ELEMENTARY SCHOOL TEACHING**
General Prerequisites (Except 411S) EDUC 201, 202, 312 and 402. Particular Prerequisites: (See Course Listings).
- 411A READING** 3
The basic principles of teaching reading; utilization of formal and informal diagnostic tools to appraise reading status; techniques of grouping for instruction; teaching specific reading skills; evaluating reading progress and appropriateness of reading programs; individualizing reading instruction. *On Campus: 30 hrs. Field-Centered Experience: Tutoring — 15 hrs. Offered every Fall. (D)*
- 411E INDIVIDUALIZED READING** 3
Each student will be required to collect, construct, and evaluate materials for use in a classroom situation, a small group situation and individual instruction. *Prerequisite: Education 411A. On Campus: 30 hrs. Field-Centered Experience: Tutoring — 15 hrs. Offered every Spring. (D)*

411F LANGUAGE ARTS

2

The principles, methods and materials employed in the teaching of listening and speaking skills, composition skills, and writing skills in the elementary school. *Prerequisite: ENG 103 and 220. On Campus: 20 hrs. Field-Centered Experience: Peer/Micro Teaching — 10 hrs. Offered every Fall. (D)*

411G MATHEMATICS

2

The principles and practices employed in teaching mathematics in elementary schools. *Prerequisite: MAT 103 and 104. On Campus: 20 hrs. Field-Centered Experience: Peer/Micro Teaching — 10 hrs. Offered every Spring. (D)*

411H LITERATURE

2

Children's literature and the techniques used in presenting it to children at different age levels; the use of audiovisual aids; illustrations of children's books. *Field-Centered Experience: Library Media Center, in a local community school district office — 10 hours. Offered every Fall. (D)*

411I SOCIAL STUDIES

2

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. *Prerequisite: HIS 201, and SOC 203. On Campus: 20 hrs. Field-Centered Experience: Peer/Micro Teaching — 10 hrs. Offered every Spring. (D)*

**411J SCIENCE**

2

Principles and techniques employed in teaching science in the elementary schools. *Prerequisite: SCI 303 and BIO 102. On Campus: 20 hrs. Field-Centered Experience: Peer/Micro Teaching — 10 hrs. Offered every Fall. (D)*

411K MUSIC AND ART

2

Principles and techniques employed in teaching music and art in the elementary schools. *Prerequisite: FA 401-402. On Campus: 30 hrs. Field-Centered Experience: Museum Trips. Offered every Spring. (D)*

411S GENERAL METHODS FOR THE ELEMENTARY SCHOOL CURRICULUM

3

Methods and problems in the elementary school and their relationship to basic principles; the principles and practices employed in teaching in the elementary school, including methods in language arts; literature, mathematics; science and social studies; consideration of such topics as classroom management, lesson plans, methods of teaching; evaluation, discipline, and visual aids. *Prerequisite: MAT 103-104, HIS 201, SOC 203, BIO 005-006. English core. On Campus: 45 hrs. Field-Centered Experience: Peer Teaching/Tutoring, 15 hrs. Offered every Fall for Special Education students only. (D)*

- ED431 DIAGNOSIS AND TREATMENT OF READING DISABILITIES 3
A study of formal and informal methods of diagnosis, special in-classroom procedures; analysis of the services rendered by clinics and other professional groups. *Prerequisite: ED 411A or 401G. On campus: 30 hrs. Field-Centered Experience: Tutoring-15 hrs. Offered every Spring. (D)*
- ED 434 SCHOOL AND COMMUNITY 3
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. *On Campus: 35 hrs. Field-Centered Experience: Community School Board Meetings — 10 hrs. Offered every Fall. (D)*
- ED503 or PSC 503 SOVIET POLITICS AND EDUCATION— 3
AN INTERDISCIPLINARY HONORS SEMINAR
An interdisciplinary approach to the relationship between Soviet politics and education. Topics will include environmental forces of Soviet politics, the relationship between Soviet ideology and the formal system of education, as compared to those of the United States of America, the role of the Communist Party in the Soviet system, and the role of education in Soviet society. *For students in the College's Honors Program only. Offered in Fall 1986. (D)*

Courses In The Secondary School Teacher Training Program (ED)

- ED 201 FOUNDATIONS OF EDUCATION: HISTORY AND PHILOSOPHY 3
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. *On Campus: 30 hrs. Field-Centered Experience: Observation: 15 hrs. Offered every semester. (D)*
- ED 301 METHODS, PROBLEMS, AND PRINCIPLES 3
IN SECONDARY EDUCATION
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. *On Campus: 45 hrs. Field-Centered Experience: Peer Teaching. Offered every Fall. (D)*
- ED 302 EDUCATIONAL PSYCHOLOGY 3
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. *On Campus: 45 hrs. Field-Centered Experience: Tutoring — 15 hrs. Offered every Spring. (D)*
- ED 401 SPECIAL METHODS IN SECONDARY SCHOOL TEACHING 3
Prerequisites: ED 301 and 302. On Campus: 30 hrs. Field-Centered Experience: Peer/Micro Teaching — 15 hrs. (D)
- 401C ENGLISH 3
Teaching various forms of writing, literature, and spelling at the secondary level; the general aims and purpose of these forms; audio-visual aids, projects, library materials and bibliographical references for the adolescent; the impact of mass media of communication on the secondary school curriculum. *Offered every Spring. (D)*
- 401D MODERN LANGUAGES 3
Aims, methods, and objectives of present-day modern language teaching in high schools and junior high schools; practical exercises; visits to local schools. *Offered every Fall. (D)*

401E MATHEMATICS

3

The teaching of mathematics in grades 7 through 12; procedures, techniques, and materials; opportunities for student presentations and discussion of strengths and weaknesses. *Offered every Fall. (D)*

401F SOCIAL STUDIES

3

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, disadvantaged and the average student; the syllabi and aims in the various subject areas; model lessons. *Offered every Fall. (D)*

401G READING

3

Special methods, aims and objectives in teaching reading on the secondary level; remedial and developmental techniques required for teachers on this level; use of developmental reading laboratory and audio-visual aids, individualized reading instruction. *Offered every Spring. (D)*

401H SCIENCE

3

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. *Offered every Spring. (D)*

401I RELIGION

3

Classroom management; general methods, positive approach to God; methods of teaching Sacred Scripture; adolescent psychology; group guidance; techniques of oral presentation. *Offered as students qualify. (D)*

401J ACCOUNTING

3

The teaching of accounting by modern methods in accordance with present-day concepts in business education; general principles and techniques of teaching vocational business subjects, skill development and the correct methods and techniques that should be used in accounting procedures. *Prerequisite: Accounting 101-102. Offered every Spring. (D)*

401K OFFICE PRACTICE

2

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 of 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. *Offered every Spring. (D)*

ED 402 TESTS & MEASUREMENTS

3

Designed for future teachers. Course work includes: principles of basic statistics related to collecting, treating, and interpreting data; the use of standardized tests (intelligence, aptitude, achievement, etc.) in a school situation; the construction and the improvement of classroom tests, and the use of test results by the administrator, teacher, and guidance counselor. *On campus: 45 hrs. Field-Centered Experience: Peer Testing/Micro Testing. Offered every semester. (D)*

ED 404 OBSERVATION AND SUPERVISED PRACTICE TEACHING

6

During senior year students in the teacher training program will spend a minimum of one term of full-time, daily supervised instructional experience in an approved secondary school. Students will complete a log of teaching experiences. Aside from the normal school experience, the student will be expected to attend individual and group conferences with the college supervisor and cooperating teacher. *Prerequisite: Approval of department chairman and completion of all other course work. On campus: 15 hrs. Field-Centered Experience: Full-time teaching. Offered every semester. (D)*

ED 500 INDEPENDENT STUDY 3
Independent study, field work, and readings in an area of specialization in education. Conferences, reports, and term paper. *Prerequisite: Senior class standing; 3.0 major index; 2.8 overall index; departmental approval. Offered every semester. (D)*

ED 501B SPECIAL METHODS OF TEACHING 3
PHYSICAL EDUCATION IN SCHOOLS
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. *Prerequisite: Nine credits in education. Offered every Fall. (D)*

ED 503 or PSC 503 SOVIET POLITICS AND EDUCATION— 3
AN INTERDISCIPLINARY HONORS SEMINAR
An interdisciplinary approach to the relationship between Soviet politics and education. Topics will include environmental forces of Soviet politics, the relationship between Soviet ideology and the formal system of education, as compared to those of the United States of America, the role of the Communist Party in the Soviet system, and the role of education in Soviet society. *For students in the College's Honors Program only. Offered in Fall 1986. (D)*

Courses In The Physical Education Teacher Training Program (PE)

PE I SKILLS ACTIVITIES 2
Theory, instruction, and practice in the fundamentals of team sports and games; techniques in soccer and volleyball including coaching techniques. *Four hours. Offered in Spring of 1987. (D)*

PE II SKILLS ACTIVITIES 2
Theory, instruction, and practice in the fundamentals of team sports and games; techniques in basketball, softball and baseball including coaching methods. *Four hours. Offered in Fall of 1986. (D)*

PE III SKILLS ACTIVITIES 2
Theory and instruction in individual and dual sports techniques in badminton, paddleball, racquetball and tennis including coaching methods. *Four hours. Offered in Fall of 1986. (D)*

PE VI SKILLS ACTIVITIES 2
Theory, instruction, and practice in the fundamentals of team sports and games; techniques in field hockey and lacrosse. *Four hours. Offered in Fall of 1987. (D)*

PE VII SKILLS ACTIVITIES 2
Theory, instruction, and practice in the fundamentals of team sports and games; techniques in football and rugby. *Four hours. Offered in Fall of 1989. (D)*

PE VIII SKILLS ACTIVITIES 2
Theory, instruction, and practice in the fundamentals of individual and dual sports; techniques in track, field and golf. *Four hours. Offered in Fall of 1987. (D)*

PE IX SKILLS ACTIVITIES 2
Theory, instruction, and practice in fitness activities; techniques in aerobic training, weight training and exercise program development. *Four hours. Offered in Spring of 1988. (D)*

PE X ADVANCED SKILLS

2

Theory, instruction, and practice in officiating at team sports and individual and dual sports; techniques for indoor and outdoor sports; preparation towards local, state and national official ratings. *Four hours. Offered in Spring of 1990. (D)*

PE 100 PHYSICAL ACTIVITIES AND SPORTS

2

The following courses meet the two-credit physical education/health requirement, required of all students for graduation. These courses are offered on a grade basis.

PE 100A or HS 100B EXERCISE, FITNESS, AND WEIGHT CONTROL

An interdisciplinary (Health Science and Physical Education) approach to the relationship of exercise to health, including weight control, stress reduction, and cardiovascular fitness. The course will include classroom work as well as participation in fitness assessment and activities. *Offered every semester. (D,E)*

PE 100B AEROBIC EXERCISE

Instruction and participation in a variety of aerobic fitness activities. Development of personalized aerobic fitness programs. *Offered Spring of 1987. (D)*

PE 100C RACQUET SPORTS

Instruction in skills, strategies and rules of paddleball, tennis, and badminton. *Offered every Spring. (D)*

PE 100D TEAM SPORTS: FOOTBALL/HOCKEY

Instruction in skills, strategies and rules of touch/flag football and floor hockey. *Offered every Fall. (D)*

PE 100E TEAM SPORTS: SOCCER/VOLLEYBALL

Instruction in skills, strategies, and rules of soccer and volleyball. *Offered every Spring. (D)*

PE 100F BEGINNING SWIMMING

Basic instruction in swimming for non-swimmers. *Offered every Fall. (D)*

PE 100G ADVANCED LIFESAVING COURSE

Students will work toward American Red Cross Advanced Lifesaving Certificate. *Prerequisite: Intermediate swimming ability. Offered as students qualify. (D)*

PE 100H WATER SAFETY INSTRUCTOR COURSE

Students will work toward American Red Cross Water Safety Instructor Certificate. *Prerequisite: Advanced swimming ability. Offered as students qualify. (D)*

PE 103 ELEMENTARY AQUATICS

1

Fundamentals and development of forms and style in stroke mechanics. Students must demonstrate basic swimming proficiency. *Physical education majors who hold current WSI Certification are exempt. Two hours. Offered in Fall 1987. (D)*

PE 105 FOLK, SQUARE AND SOCIAL DANCE

1

Instruction and practice in the basic steps and techniques of folk, square, and social dance. *Two hours. Offered in Fall 1986. (D)*

PE 106 MODERN DANCE

1

An introduction to the fundamental techniques of modern dance. *Two hours. Offered in Spring 1987. (D)*

- PE 205 ELEMENTARY GYMNASTICS** 1
Tumbling and apparatus development of basic skills; floor and mat stunts. *Two hours. Offered in Fall 1987. (D)*
- PE 208 KINESIOLOGY** 3
An overview of the skeletal, muscular and nervous systems in producing purposeful human movement. Topics include movement analysis, techniques with emphasis on noncinematographical analysis. *Prerequisites: BIO 003-004. Three hours. Offered in Fall 1986. (D)*
- PE 209 BIOMECHANICS** 2
The application of kinesiological concepts to the mechanical analysis of movement and motor skills. Topics include force, velocity, momentum, angular motion and cinematographic analysis. *Prerequisite: PE 208. Offered in Spring 1987. Two hours. (D)*
- PE 211 MOVEMENT EDUCATION AND PHYSICAL EDUCATION
IN ELEMENTARY SCHOOLS** 2
Techniques and methods in conducting elementary games; theory and practice in rhythmic activities and movement education applicable to different age levels. *Prerequisite: Any skills activities or departmental approval. Four hours. Offered in Spring of 1988. Not open to Special Ed. Students. (D)*
- PE 301 HISTORY AND PRINCIPLES OF PHYSICAL EDUCATION** 2
Orientation to the history and principles of physical education; current trends and problems in physical education analyzed and evaluated. *Two hours. Offered in Spring 1988. (D)*
- PE 302 ADAPTED PHYSICAL EDUCATION** 3
Development of exercise programs and of modified athletic activities to meet the specific needs of the handicapped. Practical experiences are included. *Prerequisite: PE 208. Three hours. Offered in Spring of 1987. Not open to Special Ed. Students. (D)*
- PE 304 ORGANIZATION AND ADMINISTRATION OF
PHYSICAL EDUCATION** 2
Emphasis on organization 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, athletics and intramurals. *Prerequisite: Any skills, activities or departmental approval. Two hours. Offered in Fall 1986. (D)*
- PE 305 PHYSIOLOGY OF EXERCISE** 3
An overview of the physiological effects of exercise on the human body. Topics include systematic response to the demands of exercise, testing and training procedures, and laboratory assessment of physiological function and status. *Prerequisites: BIO 004 or 104, CHE 003. Three hours. Offered in Spring 1987. (D)*
- PE 308 MOTOR LEARNING** 3
An introduction to the concepts, principles, and theories of movement and motor learning. *Three hours. Offered in Fall 1986. (D)*
- PE 309 or SPEC EDUC 301 MOVEMENT EXPERIENCE AND
GAMES OF LOW ORGANIZATION
IN SPECIAL EDUCATION** 3
Techniques and methods in conducting games of low organization; theory and practice in rhythmic activities and movement education for the exceptional child. *Field centered experience; peer teaching. On campus; 45 hours. Offered Spring 1988. Not open to PE students. (D)*

- PE 310 or SPEC EDUC 302 MOVEMENT PERSPECTIVES FOR SPECIAL CHILDREN 3
 Knowledge and application, with specific reference to the special child, of professional and theoretical literature focusing on selected concepts from motor learning, kinesiology and psychology. *Three hours. Not open to physical education majors. Offered as students qualify. (D)*
- PE 316 PSYCHOLOGY OF SPORT 2
 An introduction to the psychological concepts of athletes; the social psychology of sport and effective coaching techniques of athletic skills. Orientation of personality tests employed in the field; the effects of behavior on athletic performance. *Offered in Spring 1988. (D)*
- PE 402 EVALUATION OF PHYSICAL EDUCATION 2
 Methods and procedures used in the construction, administration, and interpretation of standardized testing in physical education; introduction to elementary statistical methods. *Prerequisite: ED 402 and any skills activity. Two hours. Offered in Fall 1987. (D)*
- PE 403 CARE AND PREVENTION OF ATHLETIC INJURIES 3
 Study of the most common accidents and injuries in physical education; rehabilitation equipment; massage and training room procedures; current trends in sports medicine; first aid leading to American Red Cross Certification in standard first aid and personal safety. *Prerequisite or Corequisite: PE 208 or departmental approval. Three hours. Offered in Fall 1987. (D)*
- PE 450 FIELD EXPERIENCE I 2
 Observation and supervised experience in an area of student's expressed professional interest. *Prerequisite: Junior/senior class standing; departmental approval. Six hours. Offered every semester. (D)*
- PE 500 INDEPENDENT STUDY 2
 Independent study and readings in an area of specialization in the discipline of physical education. Conferences, report or term paper. *Prerequisite: Senior class standing; 3.0 major index; 2.8 overall index; departmental approval. Offered every semester. (D)*

Courses In The Special Education Teacher Training Program (SPEC EDUC)

- SPEC EDUC 101 FOUNDATIONS OF SPECIAL EDUCATION (History and Philosophy) 3
 A survey of the historical development of the care of the special person from early man to the present. Emphasis is on the humanistic, metaphysical, epistemological, ethical, teleological and etiological principles necessary and supportive to an understanding of the special person. *On campus: 30 hours. Field-centered experience: Observation — 14 hours. Offered every semester. (D)*
- SPEC EDUC 201 or PSY 333 PSYCHOLOGY OF THE EXCEPTIONAL CHILD 3
 This course considers the physical, intellectual, emotional and social characteristics of the atypical child. It emphasizes the discrepancies in growth and development, learning disabilities, the behavioral and societal problems of the gifted and handicapped, and the implications for education and remediation. *On campus: 30 hours. Field-centered experience: Observation — 15 hours. Offered as needed. (D)*

- SPEC EDUC 202 or HS 407 HEALTH EDUCATION FOR THE
EXCEPTIONAL CHILD (formerly HS 505) 3
An exploration of the daily living problems of the special person with respect to self-realization and personal awareness. Emphasis deals with the health responsibilities of the individual as well as the community, parent and the teacher. *On campus: 30 hours. Field centered experience: Classroom Aide — 15 hours. Offered every Spring semester as students qualify. (D)*
- SPEC EDUC 301 or PE 309 MOVEMENT EXPERIENCE AND
GAMES OF LOW ORGANIZATION
IN SPECIAL EDUCATION 3
Techniques and methods in conducting games of low organization; theory and practice in rhythmic activities and movement education for the exceptional child. *Field-centered experience: Peer Teaching. On campus: 45 hours. Offered Spring of 1987. (D)*
- SPEC EDUC 302 or PE 310 MOVEMENT PERSPECTIVES
FOR SPECIAL CHILDREN 3
Knowledge and application, with specific references to the special child, of professional and theoretical literature focusing on selected concepts from motor learning, kinesiology and psychology. *Prerequisite: Two years in Special Education Program. On campus: 30 hours. Field-centered experience: Hospital Tutor — 15 hours. Prerequisite: Biology 005-006. Offered as students qualify. Not open to PE students. (D)*
- SPEC EDUC 401 DIAGNOSIS AND TREATMENT OF
READING DISABILITIES IN SPECIAL EDUCATION 3
A study of the etiology of reading difficulties, and the formal and informal methods of diagnosing reading problems; special in-classroom procedures; analysis of the service rendered by clinics and other professional groups. *Prerequisite: ED 411A. On campus: 30 hours. Field-centered experience: Tutoring — 15 hours. Offered every Spring. (D)*
- SPEC EDUC 402 SPECIAL METHODS IN ARTS AND CRAFTS
FOR THE SPECIAL CHILD 3
A study of the various types of arts and crafts projects appropriate to the needs and abilities of the special child. The course stresses the development of unit and lesson plans appropriate for different handicapping conditions. *Prerequisite: SPEC EDUC 101. On campus: 30 hours. Field-centered experience: Tutoring — 10 hours. Offered every Fall. (D)*
- SPEC EDUC 403 TESTS AND MEASUREMENTS FOR SPECIAL EDUCATION 3
Designed for future teachers of special education classes. Course work includes: an introduction to the principles of education and psychological testing; basic statistics related to collecting, treating, analyzing, and interpreting data; the use of standardized tests (achievement, aptitude, intelligence, etc.) in a school situation; and the methods and instruments for diagnosing and evaluating strengths and weaknesses of exceptional individuals. *Field-centered experience: Peer/Microtesting. On campus: 45 hours. Offered every Spring. (D)*
- SPEC EDUC 404 OBSERVATION AND
SUPERVISED PRACTICE TEACHING 6
During the senior year, students in the Teacher Training Program will spend a minimum of one term of full-time, daily supervised practice teaching in an approved school. Students will complete a log of the teaching experiences. Students must be approved by the Chairman of the Education Department. Aside from the normal school experience, the student will be expected to attend individual and group conferences with the college supervisor and cooperating teacher. *Prerequisite: Approval of department chairman and completion of all other course work. On campus: 15 hours. Field-centered experience: Full-time teaching. Offered every semester. (D)*

ENGLISH

Chairman: George E. Bush

Professors: Bush, Fox; **Associate Professor:** Caricato; **Assistant Professor:** Gill;
Adjuncts: Marino, McKay, Mescall, Mulvey, M., Mulvey, T.

Courses in English offer students a wide exposure to literature and culture as well as to the thinking of great creative minds from antiquity to the present.

Major in English

Graduates with a major in English may elect to pursue graduate studies or to enter careers in teaching, journalism, business, science or any profession which requires a well-rounded liberally educated person. Since the student majoring in English may take 57 elective credits, he or she may combine this major with career oriented courses in business and other areas.

Major Course Sequence in English	Credits
Core Curriculum including English 251 (see page 30).....	42
English 252; 253; 254; 261 and 262.....	15
English 371, 372, 373 or 374.....	3
English 381, 382, 383, 384, 391 or 392.....	3
Two courses from English 450A, 450B, 450C or 450D.....	6
Health Science 100A, or Health Science 100B/Physical Education 100A or Physical Education 100B (B-H).....	2
Electives	57
Total Credits Required.....	128

Those students who plan to pursue graduate studies in English are advised to take three additional credits in English electives and twelve credits in French.

Minor in English

An English minor enables students with other majors to gain the insights and understanding that a systematic exposure to literature provides. The writing and critical thinking skills developed in English classes can be profitably applied in any professional area or field.

Minor Course Sequence in English	Credits
English 103	3
English 251; 252; 253 and 254.....	12
One course chosen from other literature groups:	
English 261-62, 371-74 or 381-84	3
Total Credits Required.....	18

Courses In English

ENGLISH 101 FUNDAMENTALS OF ENGLISH 3
 Fundamental skills are stressed and practiced to correct deficiencies in written expression. Models of contemporary prose in English are read, analyzed and discussed as the basis of the students' own paragraphs and themes. *(Not applicable to the core or to the English major or minor.) Offered every semester. (D,E)*

- ENGLISH 103 WRITING FOR COLLEGE AND CAREER 3
All types of expository prose: description, narration, comparison and contrast, definition and argumentation, are incorporated in written themes. Methods of research, the business presentation and the critical apparatus expected of college students and entrants into the profession and the work force are covered. (*Required of all students except those in advanced placement.*) Offered every semester. (D,E)
- ENGLISH 251 ENGLISH SURVEY I 3
Anglo-Saxon and medieval English literature. Major authors and works from the beginnings through the end of the fifteenth century. Special attention is given to the historical development of Anglo-Saxon into modern English. *Prerequisite: ENG 103. Offered Fall of 1986. (D,E)*
- ENGLISH 252 ENGLISH SURVEY II 3
The renaissance and neo-classicism. Major authors and works from the sixteenth through the eighteenth century. *Prerequisite: ENG 103. Offered Spring of 1987. (D,E)*
- ENGLISH 253 ENGLISH SURVEY III 3
Romanticism and modernism. Major authors from the beginning of the nineteenth century to the present. *Prerequisite: ENG 103. Offered Fall of 1987. (D,E)*
- ENGLISH 254 SHAKESPEARE 3
A representative selection from Shakespeare's major works; histories, comedies, tragedies, non-dramatic poetry. *Prerequisite: ENG 103. Offered Spring of 1988. (D,E)*
- ENGLISH 261 SURVEY OF AMERICAN LITERATURE I 3
Major writers in poetry and prose from Colonial America to the Civil War. *Prerequisite: ENG 103. Offered Fall of 1986. (D,E)*
- ENGLISH 262 SURVEY OF AMERICAN LITERATURE II 3
Major writers in poetry and prose from post-Civil War to the present. *Prerequisite: ENG 103. Offered Spring of 1987. (D,E)*
- ENGLISH 371 ENGLISH DRAMA 3
Major dramas and theatrical landmarks from the miracle, mystery and morality plays of the medieval period to the present. *Prerequisite: ENG 103. Offered Fall of 1986. (D,E)*
- ENGLISH 372 AMERICAN DRAMA 3
Major dramas and theatrical landmarks from the eighteenth century to the present. *Prerequisite: ENG 103. Offered Spring of 1987. (D,E)*
- ENGLISH 373 CONTINENTAL DRAMA 3
The drama from the fifth century B.C. to the present. *Prerequisite: ENG 103. Offered Fall of 1987. (D,E)*
- ENGLISH 374 IRISH/COMMONWEALTH DRAMA 3
An examination of the many plays written in English-speaking countries other than Great Britain and the United States. *Prerequisites: ENG 103. Offered Spring of 1988. (D,E)*
- ENGLISH 381 CULTURAL HISTORIES 3
An examination of the ideas and movements that shaped and formed the civilization of the Western World as reflected in those works which have achieved the status of literature. *Prerequisite: ENG 103. Offered Fall of 1986. (D,E)*
- ENGLISH 382 FAMOUS BIOGRAPHIES AS LITERATURE 3
A study of the lives of famous men and women of various national backgrounds from ancient times to the present. These biographies are examined for their literary value as well as for their relevance to history, philosophy, theology, communication skills and the fine arts. *Prerequisite: ENG 103. Offered Spring 1987. (D,E)*
- ENGLISH 383 GREAT VOYAGE LITERATURE 3
Selected reading from the literature of travel—factual and imaginative, literal and symbolic—from Homer to the present. *Prerequisite: ENG 103. Offered Fall of 1987. (D,E)*

ENGLISH 384 MASTERWORKS OF JOURNALISM 3
Reading and analysis of great journalistic writing from the eighteenth century of Addison and Steele to the present of Walter Lippmann, Arthur Krock and Red Smith. Discussion focuses on how the writers covered the significant events of their times and sometimes overcame obstacles such as censorship and political pressure to present their masterworks. *Prerequisite: ENG 103. Offered Spring of 1988. (D,E)*

ENGLISH 391 CRITICAL WRITING AND ANALYSIS 3
Instruction and practice in critical writing, centered on literature and the liberal arts: contemporary theater, painting, sculpture and ballet criticism. *Prerequisite: ENG 103. Offered Spring of 1987. (D,E)*

ENGLISH 392 TECHNICAL WRITING 3
An intensive writing course which covers the formats, style and approaches to technical writing in industry, and the translation of technical language into ordinary language for the layman. *Prerequisite: ENG 103. Offered Spring of 1987. (D,E)*

ENGLISH 450A SEMINAR: MEDIEVAL-RENAISSANCE LITERATURE 3
An intensive study of three major writers of the English-speaking world during these time periods, whose works are linked by a common theme. Continental and non-literary materials may be included. *Prerequisite: ENG 103. Offered Fall of 1986. (D,E)*

ENGLISH 450B SEMINAR: NEO-CLASSICAL-ROMANTIC LITERATURE 3
An examination of English, American and continental authors (3-5 representative writers) from these periods who have some common theme or motif in their literary output. Socio-logical and political situations in England, America and on the Continent may be included. *Prerequisite: ENG 103. Offered Spring of 1987. (D,E)*

ENGLISH 450C SEMINAR: VICTORIAN-EDWARDIAN LITERATURE 3
A study of three major Victorian-Edwardian authors of comedies of manners and other interesting genres. Attention is given to changes in lifestyles as a result of the industrial revolution and the rise of big business. *Prerequisite: ENG 103. Offered Fall of 1987. (D,E)*

ENGLISH 450D SEMINAR: MODERN LITERATURE 3
An examination of three modern writers from 1900 to the present who deal with one or more similar aspects of contemporary life. *Prerequisite: ENG 103. Offered Spring of 1988. (D,E)*

ENGLISH 500 INDEPENDENT STUDY 3-15
The project must be a continuation of work already done in a previous course, or combine life experience with a literary/linguistic theme. A prospectus, including an extensive annotated bibliography, must be submitted (2 copies) at the time of application. *Limited to English majors with senior status and a 3.00 index.*



FOREIGN LANGUAGES AND FINE ARTS

Chairman: Francis J. Greene

Professor Emeritus: Fiorenza; Professors: Garcia, Greene; Associate Professor: Orti; Assistant Professor: Juszczuk; Adjuncts: Estrin, Forsberg, Hawkins, Nicolaou.

Courses in foreign languages and the fine arts provide an important part of the liberal arts background that defines an educated person. They offer unique vantage points from which to view and understand our civilization and those of other times and places.

Basic language skills are highly desirable in a wide range of areas including the business world, the transportation and travel industries, social work, all fields of teaching and counseling, social service agencies and all the humanities. A foundation in foreign languages also prepares the student for the language requirements of most graduate school degree programs and increases the students' chances for admission and for scholarships, fellowships and assistantships to superior graduate programs.

Minor in Foreign Languages

A minor in foreign languages (either French or Spanish) gives the student a set of foreign language skills (speaking, understanding, reading and writing), which will serve as an excellent supplement to the student's general education and also increase the student's academic credibility when he or she applies for positions in a chosen career.

Minor Course Sequence in French	Credits
French 101-102	6
French 103-104	6
French 201	3
Total Credits Required	15

Or, for students receiving advanced placement in French:	Credits
French 103-104	6
French 201-202	6
French 303	3
Total Credits Required	15

Minor Course Sequence in Spanish	Credits
Spanish 101-102	6
Spanish 103-104	6
Spanish 201	3
Total Credits Required	15

Or, for students receiving advanced placement in Spanish:	Credits
Spanish 103-104	6
Spanish 201-202	6
Spanish 308	3
Total Credits Required	15

Courses In Fine Arts (FA)

FA 401 MUSIC OF THE WESTERN WORLD

3

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. *Offered every semester. (D,E)*

FA 402 ORIENTATION IN ART

3

A simple approach to the understanding of the plastic arts on a conceptual basis, including within its scope historical and aesthetic materials. *Offered every semester. (D,E)*

FA 404 MODERN ART

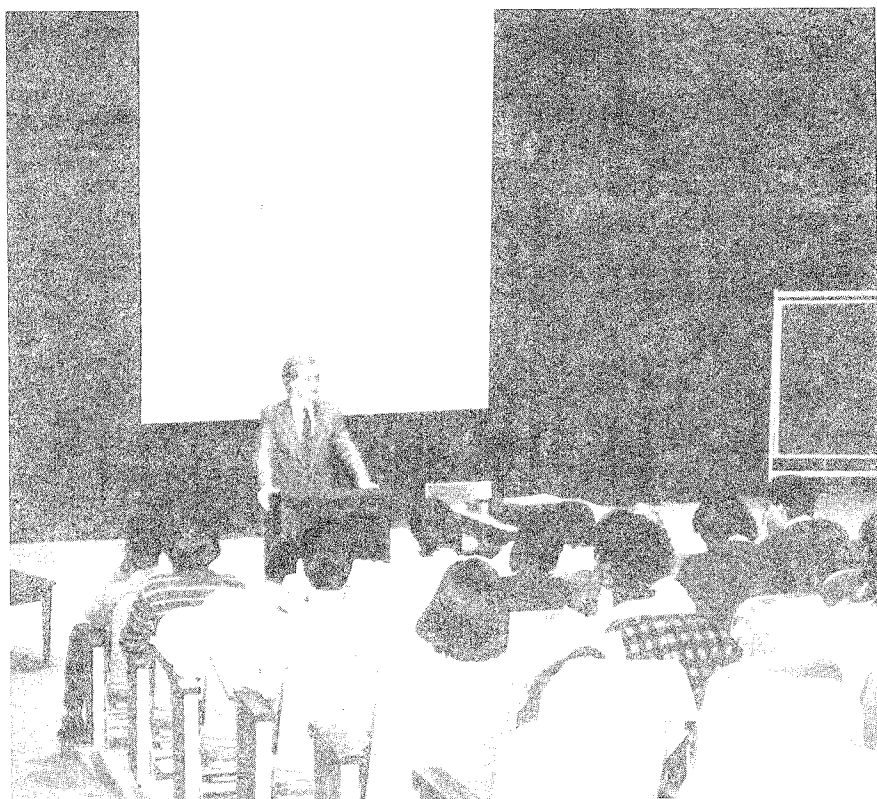
3

A study of the many factors leading to the art traditions of the last one hundred years—from impressionism to the present. *Prerequisite: FA 402. Not offered in 1986-1987. (D)*

FA 405 THE EVOLUTION OF GRAND OPERA IN WESTERN MUSICAL TRADITION

3

An inquiry into the forces which gave rise to this musical art form, its nature, and development to modern times. *Prerequisite: FA 401. Not offered in 1986-1987. (D)*



- FA 406 ANCIENT EGYPTIAN ART 3
A study of Ancient Egyptian architecture, sculpture, painting, and crafts from the first through the twenty-second dynasties. Factors contributing to the art of the Old, Middle and New Kingdoms will be analyzed, including Ancient Egyptian geography, history, culture, literature, and mythology. Slide lectures, classroom discussions, readings and museum visits will be included. *Prerequisites: FA 402. Not offered in 1986-1987. (D)*
- FA 410 WOMEN IN THE ARTS AND SCIENCES (Honors Seminar) 3
The liberal arts curriculum familiarizes students with fundamental human concerns. In many disciplines, however, women's contributions (in both traditional and non-traditional forms) have historically been overlooked and underrepresented. This honors seminar will enrich the liberal arts curriculum by exploring women in literature, arts, sciences, and philosophy. Guest lecturers, visits to museums and theater, as well as student presentations, form the basis for this course. *For students in the College Honors Program only. Offered in Fall of 1986.*

Courses In Foreign Languages French—(FRE), Spanish—(SPA)

- FRE 101-102 SPA 101-102 ELEMENTARY LEVEL 6
The attainment of audio-lingual skills. For students who have not previously studied the language selected or who have studied it for one or two years in high school. *Offered every year. (D)*
- FRE 103-104 SPA 103-104 INTERMEDIATE LEVEL 6
The control of elementary audio-lingual skills and their further development; emphasis on developing reading skills. *Prerequisite: 102 or three years of language in high school conversation and reading, or a placement test in the first hour if student so requests of the chairman. Offered every year. (D)*
- FRE 201-202 MASTERPIECES OF FRENCH LITERATURE 6
Reading and discussion of major works from the medieval period to the 20th century; composition. These works are read in modern versions of the original language. *Prerequisite: FRE 104. Offered every year. (D)*
- FRE 301 SEVENTEENTH-CENTURY FRENCH LITERATURE 3
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. *Prerequisite: FRE 202. Not offered in 1986-1987. (D)*
- FRE 302 ADVANCED FRENCH PHONETICS 3
A systematic study of articulation and intonation intended for teachers. *Prerequisite: FRE 202. Not offered in 1986-1987. (D)*
- FRE 303 ADVANCED FRENCH CONVERSATION 3
A course designed to develop the technique and vocabulary of discussion as a supplement to expression in the areas of experience. *Prerequisite: FRE 202. Not offered in 1986-1987. (D)*
- FRE 304 NINETEENTH-CENTURY FRENCH LITERATURE 3
A study of the principal authors and literary movements of this period, exclusive of the poets. *Prerequisites: FRE 202. Not offered in 1986-1987. (D)*
- FRE 401 CONTEMPORARY FRENCH DRAMA 3
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. *Prerequisite: FRE 402. Not offered in 1986-1987. (D)*

- FRE 402 FRENCH LYRIC POETRY IN THE NINETEENTH CENTURY 3
A study and appreciation of the development of French poetry from Lamartine to Verlaine. This course is for French majors only. *Prerequisite: FRE 202. Offered Fall of 1986. (D)*
- FRE 403 TWENTIETH-CENTURY FRENCH LITERATURE 3
A study of the development of French literature from 1900 to the present. *Prerequisite: FRE 202. Not offered in 1986-1987. (D)*
- FRE 404 ADVANCED FRENCH PROSE COMPOSITION 3
A study of the stylistic structure of sentences and paragraphs; review of grammar when necessary. *Prerequisite: FRE 202. Not offered in 1986-1987. (D)*
- FRE 405 FRENCH CIVILIZATION AND CULTURE 3
A study of the characteristics of French culture based upon anthropological and sociological studies; humanistic and scientific contributions to civilization; readings and reports. *Offered Spring of 1987. (D)*
- FRE 408 EIGHTEENTH-CENTURY FRENCH LITERATURE 3
A study of the literature of the eighteenth century as a reflection of the historical, social, and cultural development of France. *Prerequisite: FRE 202. Not offered in 1986-1987.*
- FRE 410 STUDIES IN FRENCH 3
A course conducted entirely in English and dealing with an aspect of French literature or civilization. Specific topic to be announced each semester. *Open to all students, no prerequisites. Liberal Arts credit; does not fulfill a language requirement.*
- FRE 410A THE THEME OF LOVE IN FRENCH LITERATURE 3
(Middle Ages to 1800)
- FRE 410B THE THEME OF LOVE IN FRENCH LITERATURE (1800-1972) 3
Not offered in 1986-1987. (D)
- SPA 115, 116 BASIC CONVERSATIONAL SPANISH I AND II 6
Courses designed to promote the attainment of audio-lingual skills in the Spanish language, specifically speaking and understanding the language used in daily communications within the city service agencies. *Offered every year. (E)*
- SPA 119, 120 SPANISH FOR BUSINESS 6
A course intended to promote speaking, understanding, and reading skills in the Spanish language used in daily communications within the business world. Also an exploration of the cultural practices, customs, and traditions of the Latin American business and social world. A comparison will be made with the same practices in the United States. This course does not fulfill a language requirement. *Not offered in 1986-1987. (D)*
- SPA 129, 130 SPANISH FOR MEDICAL PERSONNEL I, II 6
A course intended to promote speaking and understanding skills in the Spanish language used in daily communication within the medical field. The Hispanic cultural world will be presented in relation to the medical profession. Practical experience will be gained through classroom exercises. *Not offered in 1986-1987. (E)*
- SPA 201, 202 MASTERPIECES OF SPANISH LITERATURE 6
Reading and discussion of major works of the contemporary era chosen, in the first semester, from Spanish Literature, and, in the second semester, from Latin American literature. *Offered in 1986-1987. (D)*
- SPA 302 CONTEMPORARY SPANISH LITERATURE FROM 1898 TO PRESENT 3
A study of the outstanding authors of the twentieth century and their works. *Prerequisites: SPA 202. Not offered in 1986-1987. (D)*
- SPA 305, 306 HISTORY OF SPANISH-AMERICAN LITERATURE 3
TO MODERNISIMO I, II
Selections from principal Spanish-American writers from the sixteenth century to the present. *Prerequisite: SPA 104. Not offered in 1986-1987. (D)*

- SPA 308 ADVANCED SPANISH CONVERSATION 3
A course to develop the technique and vocabulary of discussion as a supplement to expression in the areas of expertise. *Prerequisite: SPA 202. Not offered in 1986-1987. (D)*
- SPA 310 ADVANCED PROSE COMPOSITION 3
A study of the stylistic structure of sentences and paragraphs, review of grammar when necessary. *Prerequisite: SPA 202. Not offered in 1986-1987. (D)*
- SPA 401 SPANISH DRAMA OF THE GOLDEN AGE 3
A study of the chief dramatists of the period. *Prerequisite: SPA 202. Offered in Spring of 1987. (D)*
- SPA 402 SPANISH CIVILIZATION AND CULTURE 3
A study of the characteristics of Spanish culture based upon anthropological and sociological studies; humanistic and scientific contributions to civilization; readings and reports. *Prerequisites: SPA 202. Offered in Fall of 1986. (D)*
- SPA 405 ADVANCED SPANISH PHONETICS 3
A systematic study of articulation and intonation intended for teachers; peninsular Spanish; the development of divergent pronunciation patterns of Latin-American Spanish. *Not offered in 1986-1987. (D)*
- SPA 406 THE NOVEL AND POETRY OF THE GOLDEN AGE 3
A study of the principal poets of the age; birth and development of the pastoral and picaresque novels; readings and discussions; reports. *Prerequisite: SPA 202. Not offered in 1986-1987. (D)*
- SPA 407 CERVANTES 3
An analysis of Cervantes' works and their importance in the literature of the Siglo de Oro; readings and discussions; reports. *Prerequisite: SPA 202. Not offered in 1986-1987.*
- SPA 410 READING AND WRITING SKILLS FOR BILINGUAL STUDENTS 3
This course is intended for students who are already fluent in Spanish and wish to improve their reading and writing skills. *Not offered in 1986-1987. (D)*
- SPA 411 SPANISH LITERATURE OF THE EIGHTEENTH AND NINETEENTH CENTURIES 3
Most important works from the Enlightenment to the Post-Romantic Period. *Prerequisite: SPA 202. Not offered in 1986-1987. (D)*
- SPA 412 CONTEMPORARY SPANISH-AMERICAN LITERATURE AFTER WORLD WAR II 3
Contemporary novels, poetry and essays; the Nobel Prizes; Gabriela Mistral, Miguel Angel Asturias, and Pablo Neruda; the works of Borges, Garcia-Marquez, Carpentier, and others; women poets in the Spanish-American countries. *Prerequisites: SPA 202 or SPA 305-306. Not offered in 1986-1987. (D)*
- SPA 413 HISPANIC CARIBBEAN CULTURES AND LITERATURE 3
A study of the characteristics of the culture and literature of the three largest Hispanic ethnic groups of Metropolitan New York: Puerto Ricans, Cubans and Dominicans; and their literary and humanistic contributions to the present United States; comparisons with Mexican-American Literature. *Prerequisite: SPA 202 or by the permission of the chairman. Offered in Fall of 1986. (D)*
- SPA 415 HISTORY OF PUERTO RICAN LITERATURE 3
A survey course covering significant authors and works of the different literary movements of Puerto Rico from colonial times to the present. *Prerequisite: SPA 202 or by the permission of the chairman. Offered in Spring of 1987. (D)*

HISTORY, POLITICAL SCIENCE AND SOCIAL STUDIES

Chairman: Arthur J. Hughes

Professor Emeritus: Cuddy; Professors: Hughes, Sorrentino; Adjuncts: Belonzi, Calcagno, Gannon, Nolan, Romano, Rosenfeld, Sennick, Williams.

The study of history, political science and social studies inculcates or improves skills such as research, descriptive and analytical writing and critical reading. The department's course offerings provide an awareness of historical, political and social perspectives, and understanding of chronology and a capacity to study causations. The department offers majors in history, political science and social studies.

Major in History

The history major prepares students to enter careers at all levels of education, law, religion, business and government service. Graduates who received their B.A. in history have pursued higher degrees with great frequency.

Major Course Sequence in History	Credits
Core Curriculum (see page 30)	42
Communication 300/400 level electives.....	3
Economics 201; 202	6
Any combination of Foreign Language; Mathematics 301; Sociology 406; Computer Information Systems 101; 201; 202; Science 201	12
Mathematics or Science*	6
Political Science 204 or Sociology 404.....	3
History 202 or 301; 312 or 403 or 404; 400; 401; 402 300/400 level electives	30
Electives	24
Health Science 100A, Health Science 100B/Physical Education 100A or Physical Education 100 (B-H)	2
Total Credits Required.....	128

*If mathematics is used to satisfy the Core Curriculum requirement, then science must be selected or vice versa.

Major in Political Science

The political science major provides the opportunity to study various areas of public policy, including foreign policy, urban policy, transportation policy and public administration, one of the major subdivisions of the discipline.

While law schools do not require a specific major, political science is a natural pre-law major because of its emphasis on the study of law and institutions. The department offers courses in law, the courts, constitutional law, and various other areas that are directly related to the legal system.

Major Course Sequence in Political Science	Credits
Core Curriculum (see page 30)	42
Communication 300/400 level electives.....	3
Economics 201; 202	6
Any combination of Foreign Language; Mathematics 301; Sociology 406; Computer Information Systems 101; 201; 202; Science 201	12
History 101; 102; 303; 402; 407	15
Mathematics or Science*	6
Political Science 202; 204; 301; 400; 300/400 level electives.....	24
Electives	18
Health Science 100A, Health Science 100B/Physical Education 100A or Physical Education 100 (B-H)	2
Total Credits Required.....	128

*If mathematics is used to satisfy the Core Curriculum requirement, then science must be selected or vice versa.

Major in Social Studies

A major in social studies gives the student the opportunity to study a variety of subjects in the social sciences and to synthesize the material of these subjects in a meaningful way through a cohesive perspective.

Major Course Sequence in Social Studies	Credits
Core Curriculum (see page 30)	42
Communication 300/400 level electives.....	3
Economics 201; 202	6
History 101; 102; 300/400 level electives.....	12
Political Science 204; 304	6
Sociology 301	3
Social Studies 400 and electives*	21
Electives	33
Health Science 100A, Health Science 100B/Physical Education 100A or Physical Education 100 (B-H)	2
Total Credits Required.....	128

*Economics, history, political science and sociology courses may be selected with the approval of the advisor.

Minor in History and Political Science

These minors provide students with the opportunity to acquire a systematic overview of either history or political science.

History Minor Course Sequence	Credits
History 101.....	3
History 102	3
History 201	3
Any 2 History courses	6
Total Credits Required.....	15

Political Science Minor Course Sequence	Credits
Political Science 202	3
Political Science 204	3
Any 3 Political Science courses	9
Total Credits Required	15

Courses in History (HIS)

HIS 101 SURVEY OF WESTERN CIVILIZATION (To 1500)	3
A survey of the principal historical events, forces, and movements from the Dawn of Man to the Reformation; ancient, medieval, and early modern developments in this period. <i>Offered in Fall of 1986. (D)</i>	
HIS 102 SURVEY OF WESTERN CIVILIZATION (Since 1500)	3
A survey of modern times, beginning with the Renaissance and Reformation; the rise of national states; the Enlightenment; the Age of Revolutions; and the nineteenth and twentieth centuries. <i>Offered in Spring of 1987. (D,E)</i>	
HIS 201 HISTORY OF THE UNITED STATES: 1896 TO PRESENT	3
The major economic, social, intellectual, and political movements of the twentieth century in the United States. <i>Offered every semester. (D,E)</i>	
HIS 202 ANCIENT HISTORY	3
A study of ancient history from the origin of man to the fall of Rome; contributions made by the ancient world to modern civilization. <i>Offered in Spring of 1987. (D)</i>	
HIS 301 MEDIEVAL HISTORY	3
A survey of the history of the Middle Ages; feudalism, universities, monarchy, the Church, the Hundred Years' War. <i>Offered in Fall of 1986. (D)</i>	
HIS 303 or PSC 312 THE WORLD IN THE TWENTIETH CENTURY	3
A study of the evolution of the nation-state system in the twentieth century. Concepts such as imperialism, nationalism, fascism, communism, neocolonialism, power politics and containment are studied in the actual time environment in which they developed. <i>Offered in Fall of 1986. (D)</i>	
HIS 305 LATIN AMERICAN HISTORY I	3
A survey of Latin American history from pre-conquest days through the independence movement; relationship of the period to present-day Latin America. <i>Not offered in 1986-1987. (D)</i>	
HIS 306 LATIN AMERICAN HISTORY II	3
A survey of contemporary Latin America; church-state relationships, land, labor, trade and culture. <i>Not offered in 1986-1987. (D)</i>	
HIS 307 AMERICAN MINORITIES	3
A survey of the peoples of the North American continents, with particular emphasis upon the United States. <i>Offered in Spring of 1987. (D)</i>	
HIS 308 or P SC 310 ASSASSINATION POLITICS	3
An examination of the use of violence as a form of political behavior. Study of the origins of terror groups. Analysis of current trends and problems. <i>Not offered in 1986-1987. (D)</i>	
HIS 311 A HISTORY OF THE BLACK AMERICAN	3
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. <i>Not offered in 1986-1987. (D)</i>	
HIS 312 RENAISSANCE AND REFORMATION	3
Intellectual and religious movements during the transition from the middle ages to modern times. <i>Not offered in 1986-1987. (D)</i>	

- HIS 314 NATIONS OF THE MODERN WORLD 3
The nations of the world in modern times, offered in eight parts. Each nation is a separate course designated by letter as follows: a) France; b) Latin America—Argentina, Brazil, Mexico; c) China; d) Russia; e) Italy; f) England; g) Germany; h) Ireland. *Ireland will be offered in Spring of 1987. (D)*
- HIS 400 HISTORICAL SEMINAR 3
A thesis seminar. Emphasis placed on research and historical criticism. Divided into two separate seminars: Local History and Problems of the Western Hemisphere. *Offered every Fall. (D)*
- HIS 401 HISTORY OF THE UNITED STATES:
THE AGE OF DISCOVERY—1789 3
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." *Offered in Fall of 1986. (D)*
- HIS 402 HISTORY OF THE UNITED STATES: 1789-1896 3
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. *Offered in Spring 1987. (D)*
- HIS 403 MODERN EUROPEAN HISTORY: 1600-1763 3
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. *Offered in Fall 1986. (D)*
- HIS 404 MODERN EUROPEAN HISTORY: 1763-1900 3
A study of the cause and effects of the French Revolution; the era of Metternich; emphasis on the Franco-Prussian War; the growth of nationalism, socialism, and democracy. *Offered in Spring of 1987. (D)*
- HIS 406 or P SC 311 CURRENT PROBLEMS 3
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. *Offered in Spring 1987. (D)*
- HIS 407 SURVEY OF UNITED STATES FOREIGN RELATIONS 3
A survey of American diplomacy from 1775 to present; "Manifest Destiny," the Civil War, the United States as a world power, and the United States after two world wars. *Offered in Fall of 1986. (D)*
- HIS 409 or P SC 409 THE AMERICAN PRESIDENTS 3
A study of the historical evolution of the Presidency from the eighteenth century to the present, emphasizing both the institution and the characters of the men who held the office. *Offered in Spring 1987. (D)*
- HIS 410 THE AMERICAN CITY 3
The historical evolution of the city from the foundation of Jamestown to the present day; the major trends in urban development; the importance of the city in American history, and the problems confronting urban America today. *Not offered in 1986-1987. (D)*
- HIS 412 or P SC 407 UNITED STATES CONGRESS 3
This course examines the evolution of Congress, the principles on which it is based, its methods of operation, its struggles, and its place in America's future. *Offered in Fall 1986. (D)*

Courses in Political Science (P SC)

- P SC 202 INTRODUCTION TO POLITICAL SCIENCE—
SCOPE AND METHOD** 3
This survey of the major contemporary trends in political science research enables the student to understand and work with a variety of analytical tools. *Offered in Fall of 1986 and Spring of 1987. (D)*
- P SC 204 AMERICAN NATIONAL GOVERNMENT** 3
The constitutional basis, structure and operations underlying political processes (elections, interest representation, political parties); special attention is given to their role in the economy and social welfare of the nation and in defense and foreign policy making. *Offered every semester. (D,E)*
- P SC 301 COMPARATIVE GOVERNMENT** 3
A study of the basic political ideas and institutions of the major foreign powers; the evolution of the principles, methods, and problems of European and American governments. *Offered in Spring 1987. (D)*
- P SC 302 GOVERNMENT AND POLITICS OF AFRICA AND ASIA** 3
Regional approach on alternating basis between the two continents; stress on characteristics of the "third-world" nations; one-party government, military dictatorship, socio-economic underdevelopment, inter-group conflict, geographic impediment. *Not offered in 1986-1987. (D)*
- P SC 303 AMERICAN POLITICAL PARTIES** 3
The origins and nature of the two-party system; party organization on the federal, state and local levels; party politics and governmental institutions; the nomination and electoral processes through party; voters and special-interests. *Offered in Fall 1986. (D)*
- P SC 304 STATE AND LOCAL GOVERNMENT** 3
Historical background and constitution-making; structures and operations of both levels with an emphasis on the politics of public administration and services; federalism; federal-state-local intergovernmental relations. *Offered every semester. (D,E)*
- P SC 305 POLITICS AND ADMINISTRATION IN LATIN AMERICA** 3
Contemporary government systems of representative nations of the Caribbean, Central and South American regions. The course combines a standard approach (governmental structures and operations) with special emphasis on particularly applicable topics (elite-mass relationship, political instability, economic development, inter-hemispheric politics). *Offered in 1986-1987. (D)*
- P SC 306 METROPOLITAN GOVERNMENT AND POLITICS** 3
Definition of the metropolitan region; traditional urban and suburban forms of government; the politics of reorganization; metropolitan forms of government; regional socio-economic problems and public policies. *Offered every semester. (D)*
- P SC 307 GOVERNMENT AND POLITICS OF THE SOVIET UNION
AND COMMUNIST CHINA** 3
The role of ideology, the patterns of political leadership and decision-making, the characteristics of control mechanisms and economic planning, and other aspects of the authoritarian state. Special concentration: Sino-Soviet ideological and geopolitical conflict. *Offered in Spring of 1987. (D)*
- P SC 309 PUBLIC ADMINISTRATION** 3
A study of administration in terms of theory and practice. It will closely examine the interrelationships of Public Administration with the political, governmental, and private environments. In addition, it will survey decision-making, financial administration, personnel administration, administrative organization, legislative and judicial administration, and administrative responsibility. *Offered in Fall of 1986. (D)*
- P SC 310 or HIS 308 ASSASSINATION POLITICS** 3
An examination of the use of violence as a form of political behavior. Study of the origins of terror groups. Analysis of current trends and problems. *Not offered in 1986-1987. (D)*

- P SC 311 or HIS 406 CURRENT PROBLEMS 3
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. *Offered in Spring 1987. (D)*
- P SC 312 or HIS 303 THE WORLD IN THE TWENTIETH CENTURY 3
A study of the evolution of the nation-state system in the twentieth century. Concepts such as imperialism, nationalism, Fascism, Communism, neo-colonialism, power politics and Containment are studied in the actual time environment in which they developed. *Offered every semester. (D)*
- P SC 400 POLITICAL SCIENCE SEMINAR 3
Each seminar is devoted to a particular theme within which the student selects a senior thesis topic. Seminar meetings are divided between instruction on thesis writing and discussions of assigned reading material on the seminar theme. *Offered in Fall 1986. (D)*
- P SC 402 AMERICAN CONSTITUTIONAL LAW 3
The shaping of constitutional law through interpretation of the federal constitution and views on American political theory by the United States Supreme Court; landmark cases dealing with governmental powers in the areas of national economy and security, and with civil liberties and rights and criminal procedure. *Offered in Spring 1987. (D)*
- P SC 404 GOVERNMENT AND BUSINESS: 1865-PRESENT 3
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 of government control; decisions of the courts; state police powers. *Offered every semester. (D,E)*
- P SC 405 INTRODUCTION TO LAW AND THE AMERICAN JUDICIAL PROCESS 3
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. *Offered in Fall 1986. (D)*
- P SC 406 INTERNATIONAL RELATIONS 3
Post World War II international politics viewed through concepts (sovereignty, national interest, power) and the instruments for the conduct of foreign policy (diplomacy, war, global economics, world organization, and international law). *Offered in 1986-1987. (D,E)*
- P SC 407 or HIS 412 UNITED STATES CONGRESS 3
This course examines the evolution of Congress, the principles on which it is based, its methods of operation, its struggles, and its place in America's future. *Offered in Fall 1986. (D)*
- P SC 409 or HIS 409 THE AMERICAN PRESIDENTS 3
A study of the historical evolution of the Presidency from the eighteenth century to the present, emphasizing both the institution and the characters of the men who held office. *Offered in Spring 1987. (D)*
- P SC 503 or ED 503 SOVIET POLITICS AND EDUCATION—
AN INTERDISCIPLINARY HONORS SEMINAR 3
An interdisciplinary approach to the relationship between Soviet politics and education. Topics will include environmental forces of Soviet politics, the relationship between Soviet ideology and the formal system of education, as compared to those of the United States of America, the role of the Communist Party in the Soviet system, and the role of education in Soviet society. *For students in the College's Honors Program only. Offered in Fall 1986. (D)*

Course in Social Studies (SS)

- SS 400 SOCIAL STUDIES SEMINAR 3
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. *Offered in Fall of 1986. (D)*

MANAGEMENT

Chairman: Seymour Barcun

Professor Emeritus: Gonnoud; Professors: Barcun, Willing; Associate Professors: Goldberg, Petrucelli; Assistant Professor: Dubinsky; Instructors: Ehrensall, Gomori, Willamowsky; Adjuncts: Chase, Goodman, Harricharan, Honig, Kirrane, Matteo, McCabe, McNamee, Morda, Mormando, Schatz, Sullivan, Tamparo

The department offers a major in management and programs leading to the A.A.S. in Business Administration and the A.S. in Electronic Data Processing. It also offers five Certificate Programs in specific areas of management.

Major in Management

This program provides a broad background for students seeking an entry-level position in the field of business administration or admission to graduate studies. By judicious use of free electives students have the opportunity to develop one or two areas of specialization including: finance, marketing, administration, international business or personnel management (human resources development). Students need not specialize. They may choose to emphasize a broad business background, a broad liberal arts background or simply use their free electives to explore new areas of interest.

Major Course Sequence in Management

Credits

Core Curriculum with Mathematics 109 and 110 as the "Natural Science or Mathematics" selection (see page 30)	42
Accounting 101, 102	6
Business Law 201, 202	6
Economics 201, 202, 306	9
History, Political Science, Economics or Psychology	6
Management Department Courses:	33
Administration 201	3
Business 101, 490	6
Computer Information Systems 101	3
Finance 301, and either 302 or 312	6
Human Resources 210, 304	6
Marketing 201, 202	6
Quantitative Analysis 308	3
Mathematics 301	3
Political Science 404	3
Electives	18
Health Science 100A, Health Science 100B/ Physical Education 100A or Physical Education 100 (B-H)	2
Total Credits Required	128

Concentrations in Specialty Areas

A student may elect to concentrate in marketing, finance, human resources or electronic data processing in addition to his/her major in management. This would require the student to select courses from the following groups in addition to the required groups in management. There is a sufficient number of free electives in the program to allow for this.

Marketing Concentration Course Sequence	Credits
Marketing 201, 202.....	6
Marketing 307	3
Marketing 309	3
Marketing 316.....	3
Marketing 330	3
Marketing 407	3
Total Credits Required.....	21

Finance Concentration Course Sequence	Credits
Finance 301, 302.....	6
Finance 312.....	3
Finance 412.....	3
Finance 420	3
Finance 422	3
Total Credits Required.....	18

Human Resources Management Concentration Course Sequence	Credits
Human Resources 210	3
Human Resources 304	3
Human Resources 315.....	3
Human Resources 409	3
Human Resources 461.....	3
Administration 304.....	3
Total Credits Required.....	18

Electronic Data Processing Concentration Course Sequence	Credits
Computer Information Systems 101, 302	3
Computer Information Systems 201, 202.....	6
Computer Information Systems 301, 302.....	6
Computer Information Systems 401.....	3
Computer Information Systems 460	3
Total Credits Required.....	21

A.A.S. in Business Administration

This degree program permits adults with work experience or others who do not expect to be able to complete a B.S. degree program to gain a broad understanding of the business environment in which they are employed or expect to be employed. The program also provides an introduction to the Liberal Arts.

A.A.S. in Business Administration Course Sequence	Credits
Core Curriculum including Mathematics 109, 301 (see page 31)	30
Accounting 101, 102	6
Business Law 201, 202	6
Economics 201, 202	6
Management Department Courses:	15
Administration 201	3
Business 101	3
Computer Information Systems 101	3
Finance 301	3
Marketing 201	3
Total Credits Required	63

A.S. in Electronic Data Processing

Many adults are finding that the ubiquitous computer is causing fundamental changes in their workplace environment. Some discover a need or desire to understand the capabilities and limitations of the computer. Others find that their career paths make it necessary to interact with the computer. This program is designed to develop a basic understanding of computer concepts and enhance a student's effectiveness in a workplace utilizing computers.

Many traditional students pursuing a B.S. degree program find it practical to seek this degree simultaneously, thereby broadening their understanding of this area of high technology while enhancing their job skills.

A.S. Degree in Electronic Data Processing Course Sequence	Credits
Core Curriculum including Mathematics 109, 301 (see page 31)	30
Accounting 101, 102	6
Economics 201	3
Management Department Courses:	24
Computer Information Systems 101, 201, 202, 301	12
and two of the following: CIS 302, 340, 401, 460	6
Business 101	3
Marketing 201	3
Total Credits Required	63

Advanced Business Certificate Programs

To qualify for an Advanced Business Certificate, a minimum of fifteen (15) of the required credits (excluding transfer and experiential credit) must be taken in residence at St. Francis College. Non-matriculated status and possession of a high school diploma or its equivalent are required for entry into the program. St. Francis students matriculated in degree programs may not pursue these certificates. A minimum grade of "C" is required in each course. The possession of basic skills in mathematics is required of all certificate program students, with algebra required for the finance options.

Advanced Business Certificate in Electronic Data Processing

This certificate program is especially designed to introduce the student to broad concepts of business and computer usage in business. Students also learn a programming language commonly used in many business environments.

Advanced Business Certificate in Electronics Data Processing Course Sequence		Credits
Accounting 150.....	3	
Business 101	3	
Computer Information Systems 101	3	
Computer Information Systems 201, 202.....	6	
Computer Information Systems 301.....	3	
Total Credits Required.....	18	

Advanced Business Certificate in Finance

This certificate program is designed to give students the fundamental skills and basic understanding needed to function effectively in banking, real estate, securities, investment, brokerage houses, and other financial services institutions.

Advanced Business Certificate in Finance Course Sequence		Credits
Accounting 150.....	3	
Business 101	3	
Business 250	3	
Computer Information Systems 101	3	
Finance 301.....	3	
Finance 302	3	
Finance 312.....	3	
Total Credits Required.....	21	

Advanced Business Certificate in General Business

This program is designed for anyone wishing to understand the general business environment. It provides a strong foundation for later specialization.

Advanced Business Certificate in General Business Course Sequence		Credits
Accounting 150.....	3	
Business 101	3	
Business 250	3	
Computer Information Systems 101	3	
Economics 201.....	3	
Marketing 201.....	3	
Total Credits Required.....	18	

Advanced Business Certificate in Human Resources

This certificate program is designed to give students the basic skills needed to function in the area of personnel management.

Advanced Business Certificate in Human Resources Course Sequence		Credits
Accounting 150.....	3	
Business 101	3	
Business 250	3	
Computer Information Systems 101	3	
Human Resources 210.....	3	
Human Resources 304	3	
Total Credits Required.....	18	

Advanced Business Certificate in Marketing

Marketing activities employ more people than any other area of business. This certificate program is designed to give students an understanding of the marketing functions (sales, sales management, advertising), and their relation to other business activities. It is for anyone interested in pursuing or learning more about careers in the marketing area.

Advanced Business Certificate in Marketing

Course Sequence	Credits
Accounting 150.....	3
Business 101	3
Business 250	3
Computer Information Systems 101	3
Marketing 201.....	3
Marketing 202	3
Total Credits Required.....	18

(Note: See Accounting section for information on the Advanced Business Certificate in Corporate Accounting.)

Courses in Administration (ADM)

ADM 201 MANAGEMENT THEORY AND PRACTICE

(formerly MGT 301)

3

This course analyzes the functions of planning, organizing, directing, controlling and communicating as exercised by managers of all enterprises. Students develop an understanding of the levels of management and their implications for the management function. Consideration is given to the conceptual, technical and human relations skills needed for effective management. *Prerequisite: BUS 101. Offered every semester. (D,E)*

ADM 304 BUSINESS AND SOCIETY (formerly MGT 514)

3

The objectives of this course are threefold: first, to identify some of the major problems of the business firm in society and to stimulate full, informed, and thoughtful discussion concerning their possible solutions; second, to provide some sense of continuity of the relationships of business and society in the past, the present, and the foreseeable future; third, to provide an interdisciplinary view of the major areas of consideration; cultural, philosophical, eco-sociological, and political. *Open to juniors and seniors. Offered in Spring 1988. (D)*

ADM 315 PUBLIC RELATIONS (formerly MGT 415)

3

This course provides a thorough grounding in the fundamentals of public relations. It combines techniques and strategy with practical examples of public relations case studies. Application of the public relations process to traditional publics is highlighted. *Prerequisites: ADM 201, MKT 201. Offered in Fall 1987. (D,E)*

ADM 405 MANAGEMENT OF A SMALL BUSINESS (formerly MGT 405)

3

Designed to introduce upper-division students to the principles and problems of managing a small business firm; the objectives, policies, facilities, finances, structure, and personnel required for operating the small business. *Open only to juniors and seniors. Offered in Spring 1988. (D)*

ADM 410, 411 SMALL BUSINESS CONSULTING I AND II

(formerly MGT 500, 501)

6

A practical case course with "hands-on" experience in the field by consulting with the owners of small businesses in the metropolitan area. The student analyzes the problems of the firm, suggests solutions, and assists the operators of the business in implementing the solutions. *Open only to management and accounting juniors and seniors. Offered in Fall of 1987 and Spring of 1988. (D)*

Courses in Business (BUS)

- BUS 101 ORGANIZATION AND MANAGEMENT (formerly MGT 201)** 3
This course introduces the major areas of concern to business and not-for-profit enterprises today. The business environment, economic issues and the rising importance of ethical conduct are discussed. The roles of marketing, finance and management theory are introduced. The roles of such diverse components within the firm as human resources, the law, accounting and computers are considered. *Offered every semester. (D,E)*
- BUS 250 BUSINESS COMMUNICATION (formerly MGT 427)** 3
The key modes of managerial communication: interpersonal, personal and organizational; a study of interviewing, personnel evaluation, meeting participation, memo writing, and the making of business presentations; the communication structure of companies analyzed for areas of communication breakdown. *Offered every semester. (D,E)*
- BUS 490 BUSINESS POLICIES (formerly MGT 400)** 3
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 of integrated approach to analysis, with the student assuming the role of corporate executive in leading group decision-making. *Open only to graduating seniors. Offered every semester. (D,E)*
- BUS 498 INDEPENDENT STUDY (formerly MGT 510)** 3
Individual research and study with the approval of the department of management. *Permission of instructor required. Offered every semester. (D,E)*

Courses in Computer Information Systems (CIS)

- CIS 101 INTRODUCTION TO COMPUTERS (formerly MGT 217)** 3
An introductory course designed to provide computer literacy and foundation for further study of computer information systems. A brief history of computers is presented. Students learn what a computer is, what it can do and how it is used in business. They are provided with an understanding of all major computer device functions, as well as performance and interaction capabilities. Students also learn to utilize "computer packages" for word processing, spread sheet analysis and computer graphics. *Offered every semester. (D,E)*
- CIS 201 COBOL (formerly MGT 230)** 3
This course provides programming techniques, knowledge and skill in COBOL language. Topics include: data representation, structure, storage and processing; sequential file processing using disc storage; use of procedural verbs including input-output handling, arithmetic manipulation and decision making; editing and validation of data. Actual hands-on-machine processing will be used to strengthen these techniques. Four problems will be presented for students to flowchart, code, keypunch and execute. Prerequisite: CIS 101. *Offered every semester. (D,E)*
- CIS 202 ADVANCED COBOL (formerly MGT 235)** 3
This course is a continuation of CIS 201 and provides advanced programming techniques in COBOL including: table handling, random disc files, sorting, compound decisions, control breaks, and debugging methods. Actual hands-on-machine processing. Four or five problems will be given to students to flowchart, code, keypunch and execute. Prerequisite: CIS 201. *Offered every semester (D,E)*
- CIS 301 SYSTEMS ANALYSIS I (formerly MGT 250)** 3
A study of the fundamentals of systems analysis and how it is applied to the development of information systems for operations in the business environment. Major topics include: methods of systems investigation, feasibility study, input-output design, system documentation, communication, implementation of new systems, controls and security. Typical applications are examined. Prerequisite: CIS 201. *Offered every Fall. (D,E)*



CIS 302 SYSTEMS ANALYSIS II (formerly MGT 255) 3

This course is a partial continuation of CIS 301 in that additional topics are discussed including hardware selection and software development. This course is also designed to allow the students to apply their knowledge and understanding of systems analysis and computer programming to an actual computer application. Students design and implement a complete system of programs using the tools developed in previous courses. Computer facilities on campus will be available for students' use. Prerequisite: CIS 301. Offered every Spring. (D,E)

CIS 340 R.P.G. PROGRAMMING (formerly MGT 240) 3

This course studies the R.P.G. (Report Program Generator) programming language and its application to business problems. R.P.G. was designed for programming applications involving the output of printed reports. The programming language is problem-oriented and programs are developed through the use of specialized R.P.G. worksheets. The student will use the computer facilities on campus and the R.P.G. worksheets to design, implement and document computer programs using the R.P.G. language. Prerequisite: CIS 101. Offered every Fall. (D,E)

CIS 401 ASSEMBLY LANGUAGE PROGRAMMING (formerly MGT 245) 3

A survey of fundamental assembly language concepts. Students will write and test assembly language programs designed to teach addressing, binary and decimal arithmetic, bit and byte manipulation, logic, macros, linkage and applications of higher-level language constructs. Prerequisite: CIS 201. Offered every Fall. (D,E)

CIS 460 DATA BASE MANAGEMENT (formerly MGT 260) 3

An introduction to the design, structure and applications of data base systems. Deals with modern industry problems associated with management of information; includes creating, updating and sharing data among corporate users. Anticipates corporate needs and provides understanding of the relationship between computers and corporate decision making processes. The course will consider concepts such as logical and physical data base organization, data security and data base life cycle. Open only to senior management majors having a computer concentration. *Permission of instructor required.* Offered every Spring. (D,E)

Courses in Finance (FIN)

FIN 301 CORPORATE FINANCE (formerly MGT 303) 3
 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. *Prerequisite: ACC 101 or 150. Offered every semester. (D,E)*

FIN 302 MANAGERIAL FINANCE (formerly MGT 403) 3
 Focuses on the efficient management of the financial resources of the firm. Consideration is given to the time value of money, the statistical analysis of risk, and the use of financial ratios. Explores financial statement analysis, financial planning, working capital management, short- and long-term financing and optimal capital structure. Lease vs. purchase and dividend policies are studied. *Prerequisite: FIN 301. Offered every semester. (D,E)*

FIN 312 SECURITY ANALYSIS (formerly MGT 408) 3
 Quantitative and qualitative methods of analyzing industrial securities, with emphasis on common stock; principles underlying the selection and management of both individual and institutional portfolios; market timing and technical strategies. *Prerequisite: FIN 301. Offered in Spring of 1987. (D,E)*

FIN 412 PORTFOLIO MANAGEMENT (formerly MGT 412) 3
 The construction and analysis of both individual and institutional investment portfolios; portfolio objectives, strategies and constraints; economic and non-economic variables impacting portfolios; performance measurement. *Prerequisite: FIN 301. Offered every Spring. (D,E)*

FIN 420 INTERNATIONAL FINANCE (formerly MGT 420) 3
 Factors related to decision making in the area of finance by multinational corporations. Topics include: foreign exchange markets, Eurocurrency markets, foreign exchange risk management, governmental regulations and the multinational corporation. Cases and problems will be presented. *Prerequisite: FIN 302 or 312. Offered in Spring of 1987. (D,E)*

FIN 422 FINANCIAL INSTITUTIONS MANAGEMENT
 (formerly MGT 422) 3
 Analysis of the structure of corporations providing financial services. Course examines institutions such as commercial banks, security brokers and life insurance companies. Management problems unique to such firms are considered and performances are evaluated. Areas considered include: management of assets and liabilities, control of financial operations, impact of government regulations. *Prerequisite: FIN 302 or 312. Offered in Fall of 1986. (D,E)*

Courses in Human Resources (HR)

HR 210 BEHAVIORAL SCIENCE (formerly MGT 310) 3
 The fundamental concepts of psychology, sociology, cultural anthropology, and management for gaining a better understanding of the predictability and awareness of human behavior in organizational environments; individual and group reactions, motivation, perception, leadership roles, personality dynamics and stem culture differentiation. *Prerequisite: BUS 101. Offered every semester. (D,E)*

HR 304 PERSONNEL MANAGEMENT (formerly MGT 404) 3
 A study of current personnel administration in various types of organizations; recruitment, testing, placement, motivation, and training of individuals; 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). *Open only to juniors and seniors. Offered every semester. (D,E)*

HR 409 INDUSTRIAL RELATIONS AND COLLECTIVE BARGAINING
 (formerly MGT 409) 3
 The various factors including legislation involved in the negotiation of a contract between employers and employees; the aspects of the administration and interpretation of the contract analyzed through actual contracts and cases involving portions of the contract, appropriate legislation, and administrative rulings. *Prerequisite: ADM 201. Offered in Fall of 1986. (D,E)*

HR 461 HUMAN RESOURCE LABORATORY (formerly MGT 461) 3
An applied seminar for students to work with various behavioral techniques such as attitude studies, resources planning, performance appraisals, succession planning, focus group approaches, career development, et al. The student will construct instruments for the implementation of these important areas. *Prerequisites: HR 210 and 304. Offered in Spring of 1987. (D,E)*

Courses in Marketing (MKT)

MKT 201 BASIC MARKETING (formerly MGT 202) 3
An introductory course in the role of marketing within firms both domestically and internationally oriented. The marketing function is analyzed from the development of products or services through their distributive channels, promotion and pricing. Students study brands, their life cycles, their advertising and sales promotion, and the methods used to obtain market research. *Prerequisite: BUS 101. Offered every semester. (D,E)*

MKT 202 ADVANCED MARKETING MANAGEMENT (formerly MGT 302) 3
An in-depth study using the case method of markets, market planning, and marketing decisions. Students learn to evaluate products in relation to consumer demand, market segments, competitive positioning, alternate distributive channels, and relative price lining. Managerial aspects of the marketing function are stressed. *Prerequisite: MKT 201. Offered every semester. (D,E)*

MKT 307 ADVERTISING AND SALES PROMOTION (formerly MGT 307) 3
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 functions achieving success in them. *Prerequisite: ADM 201 and MKT 201. Offered in Spring of 1987. (D,E)*

MKT 309 THE SALES FUNCTION (formerly MGT 309) 3
The role of the sales function in the total marketing program; salesmanship and selling methods; problems and methods of recruiting, selecting, training, building sales quotas, or sales programs; contribution of the behavioral sciences to typical sales situations. *Prerequisite: MKT 202. Offered every Fall. (D,E)*

MKT 316 MERCHANDISING (formerly MGT 306) 3
The study of contemporary and futuristic merchandising problems, methods and policies with emphasis on the impact that economic, sociological, and physiological factors have on merchandising today and the future. *Prerequisite: MKT 202. Offered every Fall. (D,E)*

MKT 330 INTERNATIONAL MARKETING (formerly MGT 430) 3
This course presents the theory and practices of modern marketing techniques as they apply to U.S. corporations doing business in foreign countries. Topics covered include: socio-economic and legal-political factors and their use in marketing decision making. *Prerequisite: MKT 202. Offered in Fall of 1986. (D,E)*

MKT 407 MARKETING RESEARCH (formerly MGT 407) 3
An interdisciplinary 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. *Prerequisite: MKT 202. Offered every Spring. (D,E)*

Courses in Quantitative Analysis (QA)

QA 308 QUANTITATIVE METHODS IN BUSINESS (formerly MGT 308) 3
The employment of mathematical and statistical tools in the solution of business decision problems; techniques of linear programming, inventory theory, queuing theory, decision theory, and computer simulation. (Replaces Economic and Business Statistics.) *Prerequisites: MAT 110 or MAT 202 and 301. Offered every semester. (D,E)*

MATHEMATICS

Chairman: Rosalind Guaraldo

Professor: Guaraldo; Associate Professor: Lazzara; Assistant Professor: Tremmel; Adjuncts: Forster, Gilde, Greenan, Jacklitch, Obiang, Paukler, Russo.

Major in Mathematics

The department offers a major in mathematics. The program provides a sound foundation for study at the graduate level in mathematics and/or computer science. In addition, many of the offerings are essential for careers in industrial and actuarial mathematics.

Major Course Sequence in Mathematics	Credits
Core Curriculum including 8 credits in Physics (see page 30)	44
Foreign Language*	6
Mathematics 202; 203; 304; 401; 403; 404; 409; 412; 415; 300/400 level electives (excluding Mathematics 301)	40
Science 201.....	4
Electives	32
Health Science 100A, Health Science 100B/ Physical Education 100A or Physical Education 100 (B-H)	2
Total Credits Required.....	128

*Two courses in the same language.

Minor in Mathematics

The purpose of the mathematics minor is to provide the student with an introduction to some of the topics of higher mathematics. This minor would be especially useful to those students who intend to pursue graduate programs in the sciences, economics, and various areas of business, since a knowledge of some higher mathematics is necessary for successful study in these fields.

Minor Course Sequence in Mathematics	Credits
Mathematics 202, 203, and 304.....	10
Two three-credit courses to be chosen from among the following: Mathematics 305, 309, 401, 403, 406, 408, 409, 412, and 415.....	6
Total Credits Required.....	16

Courses in Mathematics (MAT)

Students wishing to major in biology, chemistry, mathematics, or mathematics teaching (secondary school) must take a placement test. The test results will determine whether the student must take MAT 070 prior to taking MAT 202.

Students wishing to major in accounting, economics or management must take a placement test also. The results of this test will determine whether the student must take MAT 050 prior to taking MAT 109.

MAT 050 ALGEBRA FOR MANAGERIAL SCIENCE 0
A remedial course for accounting, management, and economics majors designed to develop and/or strengthen basic topics in algebra that a student should master before taking a first course in business mathematics. *Prerequisite: Placement by examination. Three lecture and two recitation hours per week. Offered every semester. (D,E)*

- MAT 070 ALGEBRA AND TRIGONOMETRY FOR SCIENCE MAJORS** 0
A remedial course for biology, chemistry, and mathematics majors designed to develop and/or strengthen those topics in algebra and trigonometry that a student should master before taking a first course in calculus. *Prerequisite: Placement by examination. Three lecture and two recitation hours per week. Offered every Spring. (D)*
- MAT 103 FOUNDATIONS OF MATHEMATICS I** 3
A general view of mathematics with an intuitive approach. A study of sets and logic, numbers, numeration and mathematical systems, the metric system, and an introduction to geometry. *Offered every Fall. (D)*
- MAT 104 FOUNDATIONS OF MATHEMATICS II** 3
An introduction to algebra, matrices and some applications, probability statistics, calculators and computers. *Offered every Spring. (D)*
- MAT 109 MATHEMATICS FOR MANAGERIAL SCIENCE I** 3
The main topics of this course are the study of matrices and their application. Examples include, the Leontief model and solution of systems in linear equations, inequalities in linear programming (graphical and algebraic approach), dual problems and economic interpretation. *Prerequisite: MAT 105 or MAT 050 or placement by examination. Offered every semester. (D,E)*
- MAT 110 MATHEMATICS FOR MANAGERIAL SCIENCE II** 3
This course introduces the basic concepts of functional relationships, the basic skills of differentiation and integration, maxima and minima problems, and several other applications of calculus, especially models in business and economics; exponential models and mathematics of finance. *Prerequisite: MAT 109. Offered every semester. (D,E)*
- MAT 202 CALCULUS I** 3
Emphasis given to calculus, including differentiation and integration of algebraic forms, areas, applications of the derivative, differentials, Rolle's theorem and the mean value theorem. *Prerequisite: MAT 107 or MAT 070 or placement by examination. Offered every Fall. (D)*
- MAT 203 CALCULUS II** 3
Applications of integration, logarithmic, exponential and trigonometric functions. Methods of integration by partial fractions, trigonometric substitution, conic sections, rotation of axes and the general second degree equation, polar coordinates. *Prerequisite: MAT 202. Offered every Spring. (D)*
- MAT 301 STATISTICS** 3
Organization, description and interpretation of data. Probability and probability distributions. Sampling distributions and estimation of population parameters. Testing hypothesis, linear regression and correlation analysis, index numbers. *Offered every semester. (D,E)*
- MAT 304 CALCULUS III** 3
Vectors and vector functions. Functions of several variables. Double and triple integrals with applications. Sequences and infinite series. *Prerequisite: MAT 203. Offered every Fall. (D)*
- MAT 305 THEORY OF EQUATIONS** 3
Complex numbers. Polynomials and algebraic equations. Solution of cubic and biquadratic equations. Cardan's and Ferrari's formulas. Ruler and compass constructions. Determinants and matrices. *Prerequisite: MAT 202. Offered in Fall of odd-numbered years. (D)*
- MAT 309 COLLEGE GEOMETRY** 3
This course contains some topics of higher Euclidean geometry and geometric constructions. Geometrical transformations and different kinds of geometries. Projective and hyperbolic geometries. *Offered in Spring of even-numbered years. (D)*
- MAT 401 DIFFERENTIAL EQUATIONS I** 3
Methods of solving ordinary differential equations with applications. Linear differential equations of first, second, and higher order applications. Systems of linear differential equations. *Prerequisite: MAT 203. Offered in Fall of even-numbered years. (D)*

- MAT 402 DIFFERENTIAL EQUATIONS II** 3
 Fourier series and Laplace transformations: applications. Series solutions of differential equations; Legendre's and Bessel's equations. Partial differential equations. *Prerequisite: MAT 401. Offered in Spring of odd-numbered years. (D)*
- MAT 403 ADVANCED CALCULUS I** 3
 Axiom of continuity, least upper bounds and greatest lower bounds; nested intervals; continuous functions; point sets, maxima and minima for functions of two or more variables; differentials and the condition of differentiability for functions of two variables; the method of Lagrange; implicit function theorems and general theorems of partial differential. *Prerequisite: MAT 304. Offered in Fall of odd-numbered years. (D)*
- MAT 404 ADVANCED CALCULUS II** 3
 Transformations and mappings; point set theory; uniform continuity and fundamental theorems of continuous functions; the theory of integration; infinite series and uniform convergence; power series; improper integrals and a study of the gamma functions. *Prerequisite: MAT 403. Offered in Spring of even-numbered years. (D)*
- MAT 406 THEORY OF NUMBERS** 3
 An introductory course dealing mainly with divisibility, number theorems, theory and congruences, quadratic residues, and Diophantine equations. *Prerequisite: MAT 202. Offered in Spring of odd-numbered years. (D)*
- MAT 408 NUMERICAL ANALYSIS** 3
 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. *Prerequisites: MAT 304 or 401 and SCI 201. Offered as needed. (D)*
- MAT 409 MODERN ALGEBRA** 3
 Sets and mappings; theory of groups, rings, and fields; isomorphism; the field of real numbers and the field of complete numbers. *Prerequisite: MAT 304. Offered in Spring of even-numbered years. (D)*
- MAT 410 FUNCTIONS OF A COMPLEX VARIABLE** 3
 Point set theory; algebra of complex numbers; complex analysis; Cauchy-Riemann partial differential equation; Cauchy-Goursat theorem; conformal maps. *Prerequisite: MAT 403. Offered as needed. (D)*
- MAT 411 REAL VARIABLES** 3
 The real numbers and the concepts of limit sequence, and series; functions of one real variable, continuity, derivative integrals. *Prerequisite: MAT 403. Offered as needed. (D)*
- MAT 412 LINEAR ALGEBRA** 3
 Vector spaces; basis; dimensions; systems of linear equation; matrices and determinants; scalar product; orthogonality and eigen-values. *Prerequisite: MAT 304. Offered in Fall of even-numbered years. (D)*
- MAT 414 TOPOLOGY** 3
 Set theory; definition of topology and topological space; homeomorphism and homeomorphic spaces; compactness and connectedness; separation axioms; metrics spaces and completion of a metric space. *Prerequisite: MAT 403. Offered as needed. (D)*
- MAT 415 MATHEMATICAL STATISTICS I (formerly MAT 307)** 3
 Discrete and continuous random variables and their probability distributions. Multivariate probability distributions. Functions of random variables. Limit theorems and estimation. This course is recommended for students interested in an actuarial career. *Prerequisite: MAT 304. Offered in Fall of odd-numbered years. (D)*
- MAT 416 MATHEMATICAL STATISTICS II (formerly MAT 308)** 3
 Methods of estimation and hypothesis testing. Linear models and estimation by least squares. The analysis of variance and enumerative data. *Prerequisite: MAT 415. Offered in Spring of even-numbered years. (D)*

PHILOSOPHY

Chairman: Francis Slade

Professor Emeritus: O'Brien; Professors: Galgan, Languilli; Associate Professors: Carpino, Slade; Adjuncts: Beachamp-Nobbs, Harrison, Leshen, Marino, Mitchell.

Nine credits in philosophy are part of the College's core curriculum. These required courses in philosophy constitute a program designed to develop an awareness of fundamental concepts in philosophy and of the foundations and implications of various types of discussion. The program's purpose is to provide students with the conceptual instruments and sources that make it possible for them to begin structuring their intellectual experience. Insofar as this is accomplished, the College will have succeeded in its primary aim as a liberal arts college: the formation of minds capable of responsible intellectual self-determination.

The core requirements in philosophy consist of the following courses taken in sequence: one 100-level course; one 200-level course and one 300- or 400-level course.

Minor in Philosophy

The minor in philosophy is intended for students who have the desire to increase their familiarity with, and command of, the issues and literature of philosophy. The required courses for the minor are scheduled so as to be available to all students whether attending classes primarily in the day or in the evening. The minor consists of twelve credits in philosophy in addition to the nine credits taken to satisfy the core requirement in philosophy. These twelve credits are to be distributed in the following manner:

Minor Course Sequence in Philosophy	Credits
Two courses chosen from Philosophy 431, 432, 441 or 442	6
Two courses chosen from Philosophy 309, 310, 313, 326, 327, 333, 340, 350, 403 or 404.....	6
Total Credits Required.....	12

Students desiring to pursue the minor program in philosophy are invited to consult with one of the members of the faculty of the Philosophy Department.

Courses in Philosophy (PHI)

PHI 101 BASIC PROBLEMS IN PHILOSOPHY 3
An examination at a strictly introductory level of the character of philosophical questioning. Instances chosen for treatment are from the several areas of philosophy such as ethics, epistemology, and metaphysics, and they are studied in the context of brief selections from the writings of philosophers between antiquity and the present. *Offered every semester. (D,E) Fall. (D) Spring.*

PHI 114 LOGIC (formerly PHI 314) 3
An introduction to philosophical inquiry through the study of the structure of validity in reasoning. The study includes: analysis of terms, propositions, arguments and their linguistic contexts; common fallacies; induction and the logical structure of scientific inquiry; the status of universals. *Offered every semester. (D,E) Spring. (D) Fall.*

- PHI 201 PHILOSOPHY OF MAN 3
An inquiry into human nature by means of the analysis of fundamental philosophical issues such as mind and body, death and immortality, perception and conception, reason and emotion, freedom and determinism, as they appear in the writings of philosophers from antiquity to the present. *Prerequisite: PHI 101 or PHI 114. Offered every semester. (D,E) Spring, (D) Fall.*
- PHI 203 THEORIES OF KNOWLEDGE 3
An inquiry into the nature of knowledge by means of an examination of such explanations of knowledge as empiricism, idealism, skepticism, pragmatism, and realism (in its various versions). Readings from philosophers between antiquity and the present. *Prerequisite: PHI 101 or PHI 114. Offered every semester. (D,E) Fall, (D) Spring.*
- PHI 309 MARXISM 3
Concepts, sources, backgrounds of Marxism; dialectical and historical materialism; Hegel and Feuerbach; problem of history; meaning of work; notion of superstructure; concept of revolution. *Prerequisites: PHI 101 or 114 and PHI 201 or 203. Offered in Fall 1987. (D)*
- PHI 310 AMERICAN PHILOSOPHY 3
Distinctive characteristics of American philosophic thought analyzed and discussed; attention to the thought of Edwards, Emerson, Royce, Santayana, Peirce, James, Mead, Dewey. *Prerequisites: PHI 101 or PHI 114 and PHI 201 or 203. Offered in Fall 1986. (D)*
- PHI 323 EXISTENTIALISM 3
An examination of a philosophical movement which conceives the fundamental problem of philosophy to be the question of the meaning of human existence. Readings will be done from the writings of such philosophers as Kierkegaard, Nietzsche, Heidegger, Jaspers, Marcel, and Sartre. *Prerequisites: PHI 101 or PHI 114 and PHI 201 or 203. Offered in Fall 1987. (D)*
- PHI 326 PHILOSOPHY OF SCIENCE 3
An examination of the epistemological and ontological requirements of natural science. This examination is carried out by means of a consideration of the idea of science in Greek philosophy, the emergence of modern natural science in the 17th century, logical positivism's account of natural science, and the recent criticisms of the logical positivist account. Readings from ancient, modern, and contemporary sources. *Prerequisites: PHI 101 or 114 and PHI 201 or 203. Offered in Fall 1986. (D)*
- PHI 327 METAPHYSICS 3
An inquiry into the problem of being and into the concepts in terms of which it has been elucidated; the possibility of this question. Reading from ancient, medieval, modern and contemporary philosophers. *Prerequisites: PHI 101 or 114, and PHI 202 or 203. Offered in Spring 1987. (D)*
- PHI 333 PHILOSOPHICAL THEOLOGY 3
An examination of the main themes in Western philosophical considerations of the existence and nature of God. Classical sources, Christian influences, modern treatments. *Prerequisites: PHI 101 or 114 and PHI 201 or 203. Offered in Spring 1988. (E)*
- PHI 340 SPECIAL PROBLEMS IN ETHICS 3
Examination of selected contemporary and traditional ethical problems, such as abortion, sex education, euthanasia, censorship, war and capital punishment; some study of the presuppositions, instruments, and procedures of ethical analysis will be involved. *Prerequisites: PHI 101 or 114 and PHI 201 or 203. Offered in Spring 1987. (E)*
- PHI 350 PHILOSOPHICAL ISSUES IN LANGUAGE AND LOGIC 3
An examination of some of the main philosophical questions concerning language and its uses as well as the relationship between language and logic. *Prerequisites: PHI 101 or 114 and PHI 201 or 203. Offered in Spring 1988. (D)*

PHI 403 MORAL PHILOSOPHY

3

An examination of the basic questions of moral philosophy and the positions taken up in response to them with particular attention to the question of the relationship between a given ethic and its corresponding conceptions of man and being. Readings from philosophers between antiquity and the present. *Prerequisites: PHI 101 or 114 and PHI 202 or 203. Offered every semester. (D,E) Fall; (D) Spring.*

PHI 404 POLITICAL PHILOSOPHY I

3

A study of the fundamental concepts and problems of political philosophy. Examination of such topics as: the city, regime, state and civil society, force, power, law, authority, right and freedom. Selected readings from major political philosophers. *Prerequisites: PHI 101 or 114 and PHI 201 or 203. Offered every semester. (D,E) Spring; (D) Fall.*

The courses listed below may be taken to satisfy the core curriculum requirement with permission of the Philosophy Department.

PHI 431 SEMINAR: GREEK PHILOSOPHY

3

Close examination and analysis of representative texts in ancient philosophy with particular emphasis on Plato and Aristotle. *Prerequisites: PHI 101 or 114 and PHI 201 or 203. Offered in Fall 1986. (E)*

PHI 432 SEMINAR: MEDIEVAL PHILOSOPHY

3

Close examination and analysis of representative texts of major figures from Christian, Arabic, and Jewish traditions; particular attention to the question of the relation between philosophical inquiry and religious belief. *Prerequisites: PHI 101 or 114 and PHI 201 or 203. Offered in Spring 1987. (D)*

PHI 441 SEMINAR: MODERN PHILOSOPHY

3

Close examination and analysis of representative texts of some of the major figures in modern European philosophy from Descartes to J. S. Mill. *Prerequisites: PHI 101 or 114 and PHI 201 or 203. Offered in Fall 1987. (E)*

PHI 442 SEMINAR: CONTEMPORARY PHILOSOPHY

3

Close examination and analysis of representative texts of one or more of the major figures in twentieth-century philosophy. *Prerequisites: PHI 101 or 114 and PHI 201 or 203. Offered in Spring 1988. (D)*

PSYCHOLOGY

Chairman: Uwe P. Gielen

Associate Professor: Gielen; Assistant Professors: Anolick, Mourer; Adjuncts: Cavallaro, Quinlan.

Major in Psychology

The department offers a major in psychology. The program combines methodological and theoretical courses with field work and the development of applied skills. In addition, opportunities are provided for individualized independent research. A major in psychology, when combined with a broad program of other courses, prepares the student for future careers in business, law, mental health and government. The program provides a solid foundation for future graduate studies at the M.A. or Ph.D. level in areas such as clinical, developmental, experimental, industrial and social psychology, as well as counseling.

Major Course Sequence in Psychology	Credits
Core Curriculum (see page 30)	42
Foreign Language.....	6
Mathematics or Science*	6
Psychology 201; 202; 203; 302; 401; 420	22
Psychology Electives (choose two from each group)	
205; 206; 207	7-8
307; 312; 409; 411	6
Psychology 470.....	3
Electives	33-34
Health Science 100A, Health Science 100B/ Physical Education 100A or Physical Education 100 (B-H)	2
Total Credits Required.....	128

*If mathematics is used to satisfy the Core Curriculum requirement, then science must be selected or vice versa.

Minor in Psychology

A minor in psychology is appropriate for any student interested in interpersonal behavior. Students majoring in business management (human resources), communication, criminal justice, health care and sociology will find a minor in psychology especially useful.

Minor Course Sequence in Psychology	Credits
Psychology 201, 203	6
Two courses chosen from Psychology 307, 312, 313 or 409	6
One course chosen from Psychology 225/Health Care 305, 314, 317 or 333/Education 201	3
Total Credits Required.....	15

Courses in Psychology (PSY)

PSY 201 GENERAL PSYCHOLOGY	3
General introduction to the basic concepts, methods and findings of contemporary psychology. <i>Offered every semester. (D,E)</i>	
PSY 202 STATISTICAL METHODS IN PSYCHOLOGY (formerly PSY 300)	4
The use of statistics in psychology; descriptive and inferential techniques, prediction and tests of significance. <i>Prerequisite: PSY 201. Offered in Fall of 1986. Should be taken by freshmen or sophomores concurrently with PSY 302. (D)</i>	
PSY 203 DEVELOPMENTAL PSYCHOLOGY I: CHILD PSYCHOLOGY (formerly PSY 403)	3
Human development from conception to early adolescence; examination of physical, cognitive, emotional and behavioral changes. <i>Offered every semester. (D,E)</i>	
PSY 204 DEVELOPMENTAL PSYCHOLOGY II: ADOLESCENCE AND MATURITY (formerly PSY 404)	3
A study of the life cycle from puberty through maturity. Special attention is given to the problems of adolescence, early adulthood and the changing needs of the mature adult. <i>Offered as needed.</i>	
PSY 205 PSYCHOLOGY OF LEARNING (formerly PSY 310)	3
Major theories of learning and significant research findings in the areas of learning, memory, motivation and behavior modification. <i>Prerequisite: PSY 201. Three lecture and two lab hours per week. Offered in Fall of 1986. (D)</i>	

- PSY 206 INFORMATION PROCESSING 4
Analysis of sensory and perceptual systems, information processing, thinking, states of awareness. *Prerequisites: PSY 201 and 202. Three lecture and two lab hours per week. Offered in Spring 1987. (D)*
- PSY 207 TEST AND MEASUREMENT (formerly PSY 309) 3
The theoretical framework, underlying principles and techniques of psychological tests; tests of aptitude, achievement, interest, and personality. *Prerequisites: PSY 201 and 202. Offered as needed. (D)*
- PSY 225 or HC 225 COPING WITH STRESS 3
Interdisciplinary course exploring theory, research, and techniques related to the management of stress. Stress reduction techniques and class exercises such as progressive relaxation, desensitization, assertiveness training, biofeedback will be emphasized. *Offered as needed. (D,E)*
- PSY 301 or HS 301 HEALTH COUNSELING (for non-Psychology majors) 3
This team-taught, interdisciplinary course focuses on both issues and techniques of health counseling. It investigates ways in which a health professional can detect needs of clients and work cooperatively to foster better health. It explores the helping relationship's impact on health behavior. *Prerequisites: HC 101-102, PSY 201. Offered in Fall 1986, Fall 1988. (D,E)*
- PSY 302 EXPERIMENTAL PSYCHOLOGY I (formerly PSY 220) 3
Research methodology emphasizing empiricism, scientific manipulation and functional relations. Scientific research as a decision-making process. *Prerequisite: PSY 201. Three lecture and two lab hours per week. Offered in Fall of 1986. Should be taken concurrently with PSY 202. Lab fee. (D)*
- PSY 307 THEORIES OF PERSONALITY (formerly PSY 406) 3
A comparison of major personality theories; methods for study and evaluation of personality. *Prerequisite: PSY 201. Offered in Spring of 1987. (D)*
- PSY 312 SOCIAL PSYCHOLOGY (formerly PSY 410) 3
Selected topics in person perception, socialization, development of attitudes and values, group processes, communication and intergroup behavior. *Prerequisite: PSY 201. Offered as needed. (D)*
- PSY 313 GROUP DYNAMICS (formerly PSY 413) 3
A practically-oriented introduction to group processes. Current views and research findings, techniques of working with groups; participation in training and skills groups; role playing; observation and analysis of the small group as a social system in a miniature society created by the students. *Offered as needed. (D,E)*
- PSY 314 HUMAN SEXUALITY 3
A social-psychological approach to the study of human sexual behavior. The emphasis will be placed upon the functional aspects of sexuality. All sexual behaviors (auto-erotic, bisexual, heterosexual, homosexual, and others) will be studied from a foundation of historical, anthropological, and moral perspectives. *Offered every semester. (D,E)*
- PSY 317 INDUSTRIAL AND ORGANIZATIONAL PSYCHOLOGY 3
Psychological theories, research, and applications with work behavior are discussed. Topics will include selection and evaluation of personnel, training and development, leadership; work motivation, psychological conditions of work, and consumer psychology. *Prerequisite: PSY 201. Offered as needed. (D)*
- PSY 329 PSYCHOLOGY OF WOMEN 3
A general survey of the role of women and current modes of psychological adjustment in the face of our changing social structure. *Offered as needed. (D)*
- PSY 330 or CJ 209 COUNSELING THE DRUG USER (formerly PSY 426) 3
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 presentations. *Offered as needed. (D,E)*

- PSY 333 or SPEC EDUC 201 THE PSYCHOLOGY OF THE
EXCEPTIONAL CHILD (formerly PSY 405) 3
Psychological, physiological, emotional and social characteristics of deviant, disturbed, handicapped, retarded and unusually gifted children will be considered. Procedures for evaluation and assisting development of exceptional children. *Offered as needed. (D)*
- PSY 352, 353
or REL 352, 353 IMAGES OF MAN IN WESTERN, PRIMITIVE, AND
EASTERN CULTURES: AN INTERDISCIPLINARY
HONORS SEMINAR I, II 3,6
Students in this seminar are exposed to conceptions of human nature as they have existed in primitive, Eastern and Western cultures. The seminar focuses both upon universal aspects of human experience and upon unique historical and cultural conceptions of human identity. These conceptions may be expressed in art, myths, literature, sacred books, philosophical treatises, etc. and are in various ways reflected in day-to-day living. The seminar is team-taught, stresses broad interdisciplinary perspectives and emphasizes original readings. Visits to plays, operas, movies and museums form an integral part of the seminar. *For students in College Honors Program only. Offered in 1986-1987. (D)*
- PSY 401 EXPERIMENTAL PSYCHOLOGY II (formerly PSY 305) 4
Research techniques applied in the laboratory and in the field. Students conduct and write up empirical research. *Prerequisites: PSY 201, 202, 302. Three lecture and two laboratory hours per week. Offered in Spring of 1987. Lab fee. (D)*
- PSY 408 PHYSIOLOGICAL PSYCHOLOGY 3
The interrelationship of the physiological structure and behavior of the organism; consideration of the structure and function of the nervous system; the neuro-physiological foundation of sensation, perception and emotion; comparative studies on neuro-physiological structure and response systems. *Prerequisites: PSY 201 and PSY 205 or PSY 206. Offered as needed. (D)*
- PSY 409 ABNORMAL PSYCHOLOGY 3
Analysis of the origin, behavioral and emotional patterns, social relevance and treatment of deviant human behavior. *Prerequisite: PSY 201. Offered in Fall 1986. (D)*
- PSY 411 HISTORY AND SYSTEMS OF PSYCHOLOGY 3
The history of psychology and its enduring problems, major figures and schools of thought. An advanced course designed to give an overall, long-term perspective. *Prerequisite: Four Psychology courses. Offered as needed. (D)*
- PSY 415 CLINICAL PSYCHOLOGY 3
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. *Prerequisites: PSY 201 and 409. Offered as needed. (D)*
- PSY 420 APPLIED PSYCHOLOGY 4
Supervised experience in selected clinical, social, educational or industrial settings; participation in institutional staff meetings and training sessions. Application of theoretical principles to practical experience. *Open to junior or senior psychology majors with permission of the instructor. Two lectures and six hours of supervised placement per week. Offered in Fall 1986. (D)*
- PSY 421, 422 FIELD EXPERIENCE IN PSYCHOLOGY 3,3
Observation and supervised experience in selected setting. *Prerequisite: PSY 420 and permission of the department chairman and instructor. (D)*
- PSY 455, 456 INDEPENDENT RESEARCH IN PSYCHOLOGY 3,3
Individual investigation into some topic of research in psychology under the direction of a faculty member of the department, with approval of department chairman only. *Prerequisite: PSY 401. (D)*
- PSY 470 SEMINAR IN PSYCHOLOGY 3
The course will cover a number of selected topics in psychology. Topics will be chosen to reflect both the interest of the students and current areas of concern in psychology. Students will be required to complete a major project in the area of their choice. *Permission of the instructor is required. Offered in Spring of 1987. (D)*

RELIGIOUS STUDIES

Chairman: Gerald A. Largo

Professor: Largo; Adjuncts: Connolly, VonGonten.

As a liberal arts college, St. Francis is committed to the task of providing its students with the opportunity for a multi-faceted and liberating reflection on human experience. In this context, the function of the Religious Studies Department includes the following: (1) to enable students to understand and appreciate the religious beliefs of all people within the context of their cultural and historical development; (2) to provide academic opportunities for students to come to maturity of thinking and living, individually and socially, as persons involved in a pluralistic society; and (3) to contribute a religious component to the academic attempt to integrate human thinking and experience.

The department implements this role in three ways: (1) through the Core Curriculum course required of all students; (2) through electives open to all students; and (3) through a minor in Religious Studies for those who desire a more concentrated program.

Minor in Religious Studies

A minor concentration consists of a group of courses amounting to at least 18 credits.

Minor Course Sequence in Religious Studies	Credits
Religion 101	3
Religion 202	3
Religion 203, 204, or 205	3
Nine elective credits in religious studies.....	9
Total Credits Required.....	18

Courses in Religious Studies (REL)

The Core Curriculum requirement in Religious Studies is satisfied by completing one of the following courses: REL 101; 202; 203; 204; 205; 212; 234.

Courses in Religious Studies will be offered in the four groups listed below. Students may take either REL 400 or REL 401 and any student may take these courses more than once. Students intending to register for REL 401 should obtain prior written permission from the chairman.

Group 1: (Fall, 1987) REL 101; 202; 205; 212; 315; 341; 352; 401.

Group 2: (Spring, 1988) REL 101; 204; 212; 312; 351; 353; 401; 419.

Group 3: (Fall, 1986) REL 101; 203; 204; 205; 315; 361; 401.

Group 4: (Spring, 1987) REL 101; 212; 234; 303; 305; 401; 419.

REL 101 SURVEY OF WORLD RELIGIONS (formerly REL 601) 3
An introductory study of the religious beliefs and practices in pre-literate societies, in the religions originating in India (Hinduism, Jainism, Buddhism, Sikhism), in China and Japan (Confucianism, Taoism, Shinto), and in the Middle East (Zoroastrianism, Judaism, Christianity, Islam). *Offered every semester. (D,E)*

- REL 202 CENTRAL THEMES OF THE OLD TESTAMENT 3
A study of representative selections from the historical, legal, wisdom and prophetic literature of the Old Testament. Literary and historical criticism will be used to determine basic elements of Hebrew faith and practice. The period from the Exodus to the Restoration under Ezra and Nehemiah will be emphasized. *Offered in Fall 1987. (D)*
- REL 203 CENTRAL THEMES OF THE NEW TESTAMENT 3
A study of representative selections from the different types of literature found in the New Testament. Literary and historical criticism will be used to determine basic elements of the faith and practice of the earliest Christians. The synoptic gospels, the Johannine literature, the letters of Paul, and the book of Acts will be emphasized. *Offered in Fall 1986. (D)*
- REL 204 CONTEMPORARY MORAL ISSUES (formerly REL 402) 3
The course studies the views of prominent thinkers on selected moral problems of our time that find support within the Christian community today; reflections on economic injustice, truth in government, medical-moral issues; student participation and discussion of additional moral questions. *Offered in Fall of 1986. (D)*
- REL 205 MORAL VALUES AND HEALTH ISSUES 3
A study of contemporary religious thought concerning moral issues which arise in the practice of the health professions. Bio-medical procedures, such as abortion, sterilization, organ transplants, and euthanasia, as well as the bioethical aspects of genetic experimentation, fetal engineering, extrauterine insemination, cloning, the allocation of scarce resources, and behavior modification are examined. *Offered in Fall, 1986. (E)*
- REL 212 THE CHRISTIAN TRADITION 3
A critical evaluation and analysis of selected themes of the Christian religion. Included will be a study of the major historical and doctrinal developments of Christianity and the Christian's place in the modern world. *Offered in Spring of 1987. (D)*
- REL 234 THE AMERICAN RELIGIOUS EXPERIENCE (formerly REL 634) 3
An inquiry into the mutual interaction of religion and American culture; the origin of distinctly American religious leaders and uniquely American religious expressions. *Offered in Spring 1987. (E)*
- REL 303 THE SEARCH FOR GOD 3
Belief in God studied in the context of modern atheism, secularism and the encounter with world religions; humankind's knowledge of God; God in the world. *Offered in Spring 1987. (D)*
- REL 304 MYTH, SYMBOL AND MODERN MAN 3
An investigation of myth, symbolism, and ritual activity as a celebration of life first in archaic societies, then in ancient Israel and early Christianity; application to the Passover Seder and the Christian Sacraments. *Not offered in 1986-1987. (D)*
- REL 305 MARRIAGE 3
A study of the biblical, historical, and contemporary views of marriage in the Judaic-Christian tradition with application to modern cultural and psychological dimensions of human relationships. Consideration also will be given to modern challenges to the viability of monogamy and permanent commitment, as well as to the meaning of divorce and annulments. *Offered in Spring 1987. (D)*
- REL 312 THE EXPERIENCE OF JESUS 3
An inquiry into the basic question: Who is Jesus Christ? It investigates how that question is raised and answered in the New Testament, especially the Gospels, in the early centuries, and in contemporary times. *Offered in Spring 1988. (D)*
- REL 315 or HC 304 HEALING AND WHOLENESS (formerly REL 215) 3
An interdisciplinary course which explores the interface of healing and wholeness from the perspectives of religion and health care systems. It includes a religious overview of healing from the traditions of the shaman to contemporary faith healers; an exploration of health care organization from ancient roots through modern medicine; alternative medicines and holistic therapies including psychic healing and biofeedback; and ways to self-healing through dreams, journals, and meditation. *Offered every Fall. (E)*

REL 341 THE SEARCH FOR IMMORTALITY 3
Using data from world religions and psychic research, the course examines the possibility, reality, or impossibility of survival of the human personality after death. Included are discussions of death and life, soul, consciousness, ego death, reincarnation, eternity, and immortality. *Offered in Fall of 1987. (D)*

REL 351 MYSTICISM IN THE WEST (formerly REL 651) 3
A study of the mystical experience in both its theory and practice as found in the lives and writings of selected central figures in the Western spiritual tradition, past and present. *Offered in Spring of 1988. (D)*

REL 352, 353
or PSY 352, 353 IMAGES OF MAN IN WESTERN, PRIMITIVE, AND 3,6
EASTERN CULTURES: AN INTERDISCIPLINARY
HONORS SEMINAR I, II
Students in this seminar are exposed to conceptions of human nature as they have existed in primitive, Eastern, and Western cultures. The seminar focuses both upon universal aspects of human experience and upon unique historical and cultural conceptions of human identity. These conceptions may be expressed in art, myths, literature, sacred books, philosophical treatises, etc. and are in various ways reflected in day-to-day living. The seminar is team-taught, stresses broad interdisciplinary perspectives and emphasizes original readings. Visits to plays, operas, movies and museums form an integral part of the seminar. *For students in College Honors Program only. Offered in 1986-1987. (D)*

REL 361 RELIGION, WITCHCRAFT, AND THE OCCULT (formerly REL 612) 3
A study of the historical development of witchcraft and its relation to religion; the aims, functions, and forms of divination and magic; occult practices past and present. *Offered in Fall 1986. (D)*

REL 400 SEMINAR (formerly REL 701) 3
The course deals intensively with specific subjects that will be announced. *Offered as needed. (D)*

REL 401 INDEPENDENT STUDY (formerly REL 702) 3
The course is a directed investigation of some topic of research in religious studies selected by the student. Open to qualified juniors and seniors who have completed at least three courses (nine credit hours) in religious studies. Written permission of the chairman required before registration. *Offered every semester. (D,E)*

REL 419 or HS 419 or PSY 419 DEATH, LOSS, AND GRIEF 3
An interdisciplinary course that investigates the processes of death, loss and grief while focusing upon the manner in which patterns of dealing with death are interwoven with patterns of living including: family, religion, medicine, economy, law and community. Specific issues addressed will include the moral and legal aspects of euthanasia and the right to die, the hospital, hospice and home as alternative sites for dying, definitions of life and death, religious and cultural burial customs, and the bereavement process. The implications of these issues will be explored for health care practitioners and other individuals in the helping profession. *Offered in Spring 1987. (E)*

SOCIOLOGY AND CRIMINAL JUSTICE

Chairman: Edna M. O'Hern

Professors: O'Hern, Tawab; Adjuncts: Capela, Christiano, Gussow.

Sociology is a dynamic field of contemporary study which seeks to analyze and understand societal structure and functioning. The field contributes substantially to the goals of liberal education. It provides the student with knowledge about society, and also with insight and understanding into society.

The Major in Sociology

The sociology major is recommended both for students seeking the traditional liberal arts degree, and also for those students seeking an interdisciplinary program with emphasis on the contemporary urban situation. It trains the student to think analytically and critically. It fosters the values of competence and integrity which are necessary for moral citizenship. At the same time, the sociology curriculum provides an interdisciplinary program with emphasis on the contemporary urban situation. From this perspective, it is recommended for those students planning to enter the fields of law, law enforcement, community organization, probation and parole, and social service. While it does not train students for these occupations, the sociology curriculum, through its urban emphasis, assists students in making occupational choices. Field experience with academic credit is available to qualified students.

Major Course Sequence in Sociology

Credits

Core Curriculum (see page 30)	42
Economics 201 or 202; 308	6
Foreign Language or two courses in Computer Information Systems.....	6
Mathematics or Science*	6
Political Science 304 or 306 or Sociology 316	3
Psychology 201; 312.....	6
Sociology 301; 311; 400; 404; 406	15
Sociology Electives 300/400 level	9
Sociology Electives (choose one sequence) 303A-303B; 308A-308B	6
Electives	27
Health Science 100A, Health Science 100B/ Physical Education 100A or Physical Education 100 (B-H)	2
Total Credits Required.....	128

*If mathematics is used to satisfy the Core Curriculum requirement, then science must be selected or vice versa.

Minor in Sociology

Sociology has relevance for almost every other academic major. In the fields of business and accounting, graduates are expected to have some sociological sophistication. The other social and behavioral sciences—economics, political science, psychology—require basic sociological knowledge. Students aspiring to the world of communications also need more than a passing understanding of today's society. The sociology minor aims to provide these students with a concentration in sociology to complement their chosen major field.

Minor Course Sequence in Sociology	Credits
Sociology 203.....	3
Sociology 301.....	3
Sociology 311 or 404.....	3
Two elective courses to be selected in consultation with Sociology Department faculty.....	6
Total Credits Required.....	15

A.A.S. in Criminal Justice

The preservation of peace, the protection of life and property, the safeguarding of civil liberties, the maintenance of social order and domestic tranquility are all essential to the survival of free society. The objectives of the criminal justice curriculum are to instruct the student in the systems and institutions of American society which function to implement these values, and to nurture respect for them. For both majors and non-majors, this curriculum aims to instruct concerning police, courts, probation, parole, institutionalization, i.e., the strengths and weaknesses of the American criminal justice system. Students who elect to pursue this degree often have vocational goals which include law and/or law enforcement, corrections in general, courts-related occupations, or private security. While this curriculum does not train students for specific occupations, it does provide a desirable background for students with such aspirations.

Associate of Applied Science in Criminal Justice Course Sequence

	Credits
Core Curriculum (see page 30)	30
Criminal Justice 200; 201	6
Criminal Justice Electives.....	9
Political Science 304 or 306 or 405	3
Psychology 201; 312.....	6
Sociology 301	3
Electives	6
Total Credits Required.....	63

Courses in Sociology (SOC)

SOC 203 PRINCIPLES OF SOCIOLOGY 3
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. *Offered every semester. (D,E)*

SOC 301 SOCIAL PROBLEMS 3
An inquiry into the nature of social problems, both causes and consequences, within complex industrial society, and in the perspective of social change. *Prerequisite: SOC 203. Offered every Fall semester. (D)*

SOC 303A or CJ 200 CRIMINOLOGY 3
The sociological approach to the study of crime causation and to patterns of criminal and delinquent behavior in contemporary society. *Prerequisite: SOC 203. Offered in Fall 1986. (D)*

SOC 303B or CJ 201 THE SOCIOLOGY OF CORRECTIONS 3
The study of the structure and functioning of the American system of corrections; law enforcement, courts, institutions, probation and parole. *Prerequisite: SOC 203. Offered in Spring 1987. (D)*

- SOC 305 SOCIAL ANTHROPOLOGY** 3
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. *Prerequisite: SOC 203. Not offered in 1986-1987. (D)*
- SOC 308A INTRODUCTION TO SOCIAL WORK** 3
The course is designed to introduce students to the field of social work; deals with the history and philosophy of social work; analyzes the three major areas of social work: case work, group work, and community organization; describes the major programs to special client groups: families, children, the elderly, the mentally ill, the handicapped, etc. *Prerequisite: SOC 203. Offered in Fall 1986. (D)*
- SOC 308B SOCIAL WORK PRACTICUM** 3
The course is an intensive one, in which the principles of social work are developed through careful examination of each participant's actual functioning and experience. In addition to the weekly class, each student of the practicum will receive a regular individual consultation. *Prerequisites: SOC 203 and SOC 308A. Offered in Spring 1987. (D)*
- SOC 309 SOCIOLOGY OF COMMUNICATION** 3
Primary and secondary communication systems; language in socialization, social organization, and social control; theories of communication; modern mass communication media; structure, content, and effects. *Prerequisite: SOC 203. Offered every Fall. (D)*
- SOC 310 or CJ 205 CHILD WELFARE** 3
The course traces the development of rights of the child in relation to parental rights; explores the methods of care of dependent and neglected children in their own homes, foster homes, institutions; reviews the adoption process and the social trends toward integration in family and child care. *Prerequisite: SOC 203. Offered in Fall. (D)*
- SOC 311 SOCIAL RESEARCH METHODS** 3
Preparation of a research proposal. Formulation of the problems; survey of relevant literature; definition of concepts; preparation of research design and research tools. *Prerequisite: SOC 203. Offered in Fall 1986. (D)*
- SOC 312 or CJ 206 SOCIOLOGY OF MINORITY GROUPS** 3
The analysis of interaction among racial, ethnic, and religious groups in the United States; the study of structure, dynamics, and problem aspects. *Prerequisite: SOC 203. Not offered in 1986-1987. (D)*
- SOC 316 SOCIOLOGY OF PUBLIC ADMINISTRATION** 3
The course is designed to give the students a clear account of the field of administration at all levels of government; reviews the rise of the bureaucratic state, its impact on administrative theory and practice, and the nature of the new public bureaucracy. Special attention is given to the political environment and its pressure upon the public administrator. *Prerequisite: SOC 203. Not offered in 1986-1987. (D)*
- SOC 400 SOCIOLOGY SEMINAR** 3
A coordinating seminar for senior sociology majors only, for the purpose of integrating sociological knowledge and for considering some of sociology's scientific status, the place of values in the study of society, the relationship of sociology to other academic fields. *Offered every Spring. (D)*
- SOC 402 SOCIOLOGY OF THE FAMILY** 3
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 civilization processes. *Prerequisite: SOC 203. Not offered in 1986-1987. (D)*
- SOC 403 INDUSTRIAL SOCIOLOGY** 3
The course traces the development of the industrialization process and its impact on the social organization of work; surveys the array of industries constituting a modern economy, and the distribution of occupations within each; examines the corporation as a social institution, trade associations, unions, cooperatives, consumer organizations, and the major movements seeking to influence business behavior from within and without; forecasts directions of development. *Prerequisite: SOC 203. Not offered in 1986-1987. (D)*

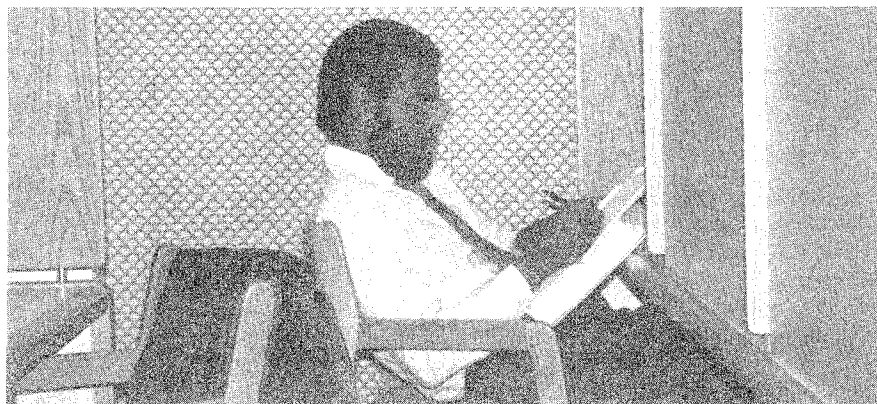
SOC 404 THEORY AND HISTORY OF SOCIOLOGY 3
A systematic survey of the growth of sociological theory; a study of influential individuals and representative schools from Auguste Comte to the present day. *Prerequisite: SOC 203. Offered in Fall of 1987. (D)*

SOC 406 SOCIOLOGICAL STATISTICS 3
Statistical techniques most commonly used in the analysis of sociological data. *Prerequisite: SOC 203. Not offered in 1986-1987. (D)*

SOC 408 COMPLEX ORGANIZATIONS: STRUCTURE AND PROCESS 3
The course covers all types of organizations: business, government, social welfare, education, medicine, voluntary organization, etc.; examines how structure contributes to processes such as power and conflict, leadership and decision-making, communication and change, etc.; shows how organizations interact with each other and with society in general. *Prerequisite: SOC 203. Not offered in 1986-1987. (D)*

SOC 409 MEDICAL SOCIOLOGY 3
Society and disease; societal coping with illness and injury; society and health care administration. *Prerequisite: SOC 203. Not offered in 1986-1987. (D)*

SOC 500 INDEPENDENT STUDIES 3
Individual research or field work under the direction of a faculty member with the approval of the department chairperson only. *Offered every semester as students qualify. (D)*



Courses in Criminal Justice (CJ)

CJ 200 or SOC 303A CRIMINOLOGY 3
The sociological approach to the study of crime causation and to patterns of criminal and delinquent behavior in contemporary society. *Prerequisite: SOC 203. Offered Fall 1986. (D)*

CJ 201 or SOC 303B SOCIOLOGY OF CORRECTIONS 3
The study of the structure and functioning of the American system of corrections; law enforcement, courts, institutions, probation and parole. *Prerequisite: SOC 203. Offered Spring 1987. (D)*

CJ 202 PROBLEMS OF URBAN LAW ENFORCEMENT 3
(formerly CJ 461)
The role of the law enforcement officer and agency in the city of the 80's; the limitations and the extent of community cooperation necessary for proper law enforcement. *Offered Fall 1986. (D)*

CJ 203 COURTS MANAGEMENT (formerly CJ 465) 3
Training in proper reading of documents, setting up procedures, proper handling of records and documents received, structure of courts system, and management function of various divisions. *Offered in Spring 1987. (D)*

- CJ 204 PRISON ENVIRONMENT (formerly CJ 466) 3
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; prisoner's rights and officer's rights and duties. *Offered in Fall of 1987. (D)*
- CJ 205 or SOC 310 CHILD WELFARE 3
This course traces the development of the rights of the child in relation to parental rights; explores the methods of care of dependent and neglected children in their own homes; foster homes; institutions; reviews the adoption process and the social trends toward integration in family and child care. *Prerequisite: SOC 203. Offered Fall of 1986. (D)*
- CJ 206 or SOC 312 SOCIOLOGY OF MINORITY GROUPS 3
The analysis of interaction among racial, ethnic, and religious groups in the United States; the study of structure, dynamics, and problem aspects. *Prerequisite: SOC 203. Not offered in 1986-1987. (D)*
- CJ 208 SUPERVISION AND ADMINISTRATION OF POLICE (formerly CJ 471) 3
A consideration of supervisory problems within a police organization and the implementation of sound principles of human relations and supervisory techniques for effective police performance; analysis of administration of large police departments, and of line, staff and auxiliary functions, the interrelationships and interdependence of each. *Offered in Spring of 1988. (D)*
- CJ 209 or PSY 330 COUNSELING THE DRUG USER (formerly CJ 473) 3
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. *Offered as needed. (E)*
- CJ 210 FORENSIC SCIENCE (formerly CJ 476) 3
An introduction to the problems and techniques of scientific criminal investigation with emphasis on the value of various scientific aids to the officer, detective, or field investigator. This course will examine techniques used in investigating major criminal cases such as kidnapping, arson, bombings, organized crime. *Offered in Fall of 1988. (D)*
- CJ 211 PRIVATE SECURITY AND THE PRIVATE SECTOR 3
An introduction to the security field. Overview of school and campus security, hospital security, housing security, etc. Security organization, policies, and personnel are explored. Emphasis on creating security awareness, relations with other organizations and security's place in the corporate structure. *Offered Spring of 1988. (D)*
- CJ 212 or AV 355 AVIATION SECURITY 3
An overall review of the security measures required in the aviation industry. Topics include: regulations, passenger screening and protection, airport and fixed-base operator security, theft and pilferage protection, and security plan protection. *Offered Spring of odd-numbered years. (D)*
- CJ 213 ORGANIZED CRIME 3
Organized crime defined; its history and politics. Investigation and prosecution strategies; criminal defense and sentencing. *Offered as needed. (D)*
- CJ 214 JUVENILE JUSTICE 3
The study of the nature, prevalence, and causality of juvenile delinquency; of predelinquent and postadjudication intervention; of community treatment and institutionalization. *Offered as needed. (D)*
- CJ 215 PROBATION AND PAROLE 3
The history and legal foundations of probation and parole; supervision; terms and conditions; and the administration and organization of probation and parole system. *Offered as needed. (D)*
- CJ 216 WHITE COLLAR CRIME 3
The study of occupational, corporate, and computer crime; their history and prevalence; investigation and prosecution strategies. *Offered as needed. (D)*

BACHELOR OF SCIENCE IN SPECIAL STUDIES

The Bachelor of Science in Special Studies degree is designed for the student seeking a flexible program of study tailored to individual needs. Students who are planning a career change or who are seeking to enhance previously acquired skills with academic attainment will find the opportunity to "tailor make" a curriculum especially beneficial.

At least half of the total 128 credits must be in the liberal arts and sciences. This requirement can be met through transfer credit, credit for Experiential Learning, or through study at St. Francis. Each student develops, with the help of an educational advisor, an individualized interdisciplinary program drawn from various academic departments with no more than 21 credits in any one department.

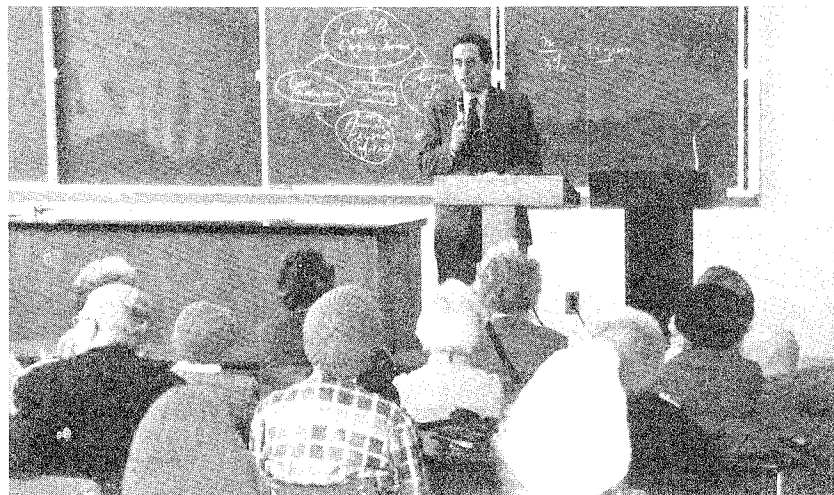
Candidates for admission should submit approximately two years, or 60 academic credits, of postsecondary education. Transfer credits will be awarded in accordance with college policy as approved by the faculty.

Students who have substantial experience through professional, community and personal endeavors may apply for credits through the Experiential Learning program.

Requirements for Bachelor of Science in Special Studies	Credits
Core Curriculum (see page 31)	21
Liberal Arts Electives*	42
Other Electives**	63
Health Science 100A, Health Science 100B/ Physical Education 100A or Physical Education 100 (B-H)	<u>2</u>
Total Credits Required	128

*Credits must be earned at St. Francis College or other accredited college or university.

**Credits may be earned at other institutions, through Experiential Learning or at St. Francis College.



PREPARATION FOR PROFESSIONAL STUDY

Pre-Law

Law schools do not prescribe a definite pre-law curriculum for prospective students. Therefore, students will have to make their own selection of courses in undergraduate school which will assist them in achieving their goal. In choosing both courses and/or a major field of study, students should remember that law schools consistently indicate that they want applicants and students who can think logically and express themselves clearly and cogently both orally and in written form.

The Law School Admissions Test is required of all applicants by most law schools. This examination is administered by the Educational Testing Service, Princeton, N.J. It is suggested that students interested in studying law seek an interview with Pre-Legal Advisors, Dr. Arthur Hughes or Dr. Frank Sorrentino in the History, Political Science and Social Studies Department. Law school material and catalogues may be found in that department's office.

Pre-Medical, Pre-Dental and Pre-Veterinary Medicine

It is advised that students contemplating admission to the study of medicine, dentistry or veterinary medicine obtain the baccalaureate degree. Students should consult the catalogues of the professional schools they are interested in attending in their freshman year and fulfill academic prerequisites. Any 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. Recommendations may be obtained only at these times. Exact dates of such meetings will be posted.

Students are advised to take the appropriate professional school admission test in the spring of their junior year.

Pre-Podiatry

Podiatry is a specialty which is concerned with the diagnosis, treatment and prevention of problems of the lower limb. St. Francis College, in an affiliation with the New York College of Podiatric Medicine, offers an accelerated Bio-Medical Program. This program will allow students to earn a B.S. degree in Bio-Medical Science from St. Francis College and a D.P.M. (Doctor of Podiatric Medicine) from the New York College of Podiatric Medicine in six years. During their two years of study at St. Francis College students will complete liberal arts and science requirements and, if accepted, transfer to N.Y.C.P.M. where they will receive clinical training and gradually, over the span of the next four years, assume responsibility for the care of patients.

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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.

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.

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; approves schedule, athletic awards, and other matters pertaining to athletics.

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 curricula.

Faculty Interests Committee: recommends policies for orientation, salaries, appointments, promotions, rank, tenure, professional growth, and leaves of absence.

Library Committee: formulates policies and procedures relating to the library; seeks means of enriching the library's holdings in books, periodicals, and audiovisual 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 nomination and election to elective positions on other standing committees; proposes candidates and conducts elections.

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; investigates charges against members of the faculty and professional staff and recommends appropriate action.

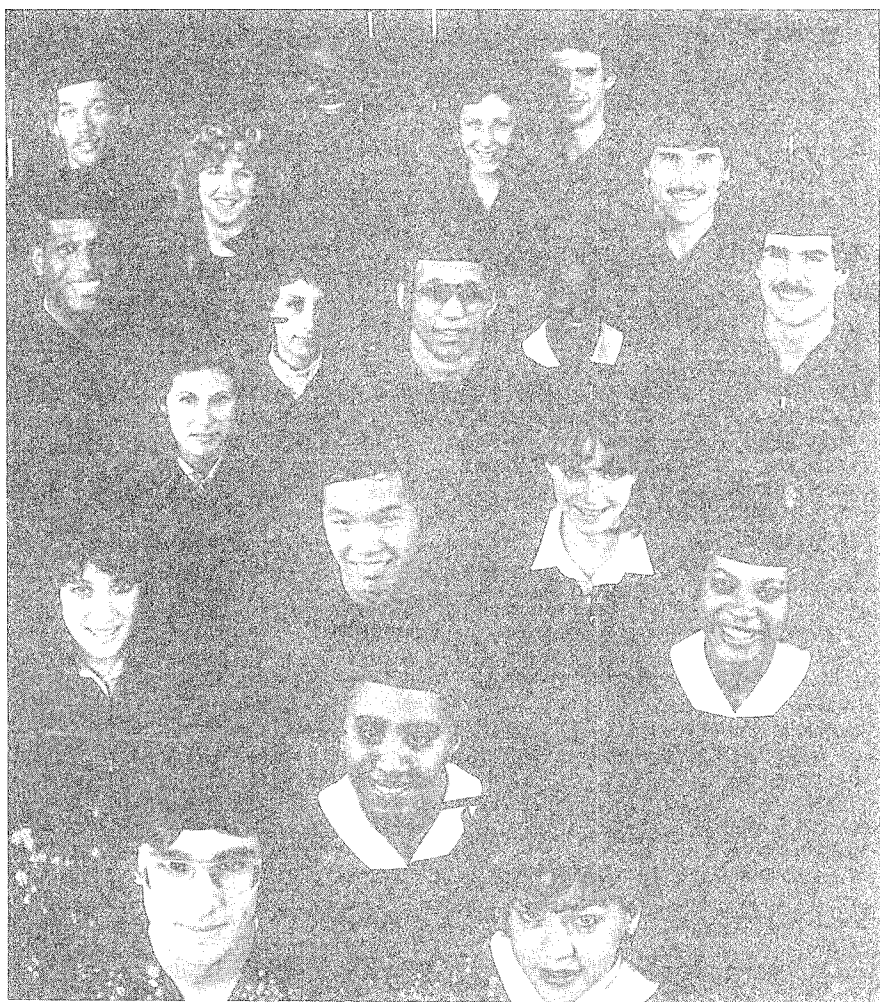
Promotion and Tenure: formulates and recommends policies and procedures; evaluates and recommends faculty members for promotion and tenure.

Research Committee: formulates and recommends policies concerning faculty research; studies research projects submitted by members; recommends to the Academic Dean the granting of research funds and maintains a record of the reports submitted by recipients of research funds.

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; makes a semi-annual examination of the records of the holders of scholarships and grants-in-aid, and recommends continuance of such aid.

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.

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 for the distribution of awards other than academic and athletic.



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DIRECTIONS TO ST. FRANCIS COLLEGE

160 Remsen St., Brooklyn Heights

(1/2 block from Remsen-Court Street intersection.)

By Subway

IRT: 7th Avenue and Lexington Avenue lines to Borough Hall.

IND: A or F trains to Jay Street-Borough Hall.

BMT: B, N, R, or 4th Avenue to Geddes Avenue. Change to M or RR trains; go two stops to Court/Montague Street station.

From Staten Island: No. 7 bus to 98th Street and Fourth Avenue. Change to RR train; go to Court Street-Borough Hall stop.

By Car

From Manhattan: Brooklyn Bridge to Cadman Plaza West Exit. Turn left. After several blocks, Cadman Plaza becomes Court Street.

From Queens: Brooklyn-Queens Expressway to Cadman Plaza Exit. Same as above.

From Staten Island: Brooklyn-Queens Expressway to Cadman Plaza Exit. Turn right. Same as above.

Good street parking on Saturday. Convenient lot parking at Cadman Plaza and Pier 11.

By Bus

Bus routes: B-25, B-26, B-37, B-38, B-41, B-45, B-52, or B-67 to Court Street-Borough Hall.

By Long Island Railroad

To Flatbush Avenue Terminal. Take RT Lexington at 7th Avenue subway two stops to Court Street-Borough Hall.



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