



Sacred Heart University

Catalog 1983-1985

Sacred Heart University

Fairfield, Connecticut

Serving Southwestern Connecticut

ACADEMIC CATALOG 1983-1985

January 1983

Volume XIV

ACCREDITATION

The University is accredited by the New England Association of Schools and Colleges, Inc., and is approved by the Connecticut State Education Department, Bureau of Veterans Education and the education of veterans and other eligible persons in accordance with the provisions of Public License 89-358.

The University belongs to the following national and regional associations:

- American Bar Association
- American Council on Education
- American Library Association
- American Mathematical Society
- Association of Colleges and Research Libraries
- Association for Computing Machinery
- Association of Departments of English
- Association of Governing Boards of Universities and Colleges
- Association for Intercollegiate Athletics for Women
- College Entrance Examination Board
- College Entrance Examination Board—Scholarship Service
- Connecticut Association of Colleges and Universities for Teacher Education
- Connecticut Business and Industry Association
- Connecticut Conference of Independent Colleges
- Connecticut Council on Higher Education
- Connecticut Library Association
- Council for Advancement and Support of Education
- Council on Social Work Education
- Eastern College Athletic Conference
- Educational Film Library Association
- Mathematical Association of America
- National Association of College and University Attorneys
- National Association of Student Personnel Administrators
- National Catholic Educational Association
- National Collegiate Athletic Association
- National Council on Crime and Delinquency
- National Council for Social Studies
- National League for Nursing
- New England College Athletic Conference
- New England Library Network
- Operations Research Society of America
- Society for Industrial and Applied Mathematics

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Academic Calendar 1982-83*

FALL SEMESTER

Fall Orientation and Registration	Aug. 24-Sept. 3
**Labor Day	Sept. 6
Classes Begin	Sept. 7
Columbus Day—No Classes	Oct. 11
Last Day to Withdraw	Oct. 19
Last Day to Remove Incomplete for Spring and Summer Semesters	Oct. 18
Mid-semester Exam Period	Oct. 18-23
Mid-semester Grades Due	Oct. 25
Veterans Day—No Classes	Nov. 11
Thanksgiving Recess—No Classes	Nov. 24-27
**Thanksgiving Holiday	Nov. 25-26
Last Day of Day Classes	Dec. 11
Last Day of Continuing Education Classes	Dec. 13
Final Exam Period for Day Classes	Dec. 13-20
Final Exam Period for Continuing Education Classes	Dec. 14-20
Final Grades Due	Dec. 27
**Christmas Holiday	Dec. 23-25
**New Year's Day	Dec. 31-Jan. 1

SPRING SEMESTER

Spring Orientation and Registration	Jan. 10-19
Classes Begin	Jan. 20
**Washington's Birthday	Feb. 21
Last Day to Withdraw	Feb. 24
Last Day to Remove Incomplete for Fall Semester	Mar. 3
Mid-semester Exam Period	Mar. 7-12
Mid-semester Grades Due	Mar. 14
Spring Recess—No Classes	Mar. 14-19
**Easter Holiday	Mar. 31-Apr. 3
Last Day of Day Classes	May 7
Last Day of Continuing Education Classes	May 9
Final Exam Period for Day Classes	May 9-16
Final Exam Period for Continuing Education Classes	May 10-16
Commencement	May 21
**Memorial Day	May 30
**Independence Day	July 4

*Dates subject to change

**University Closed

Academic Calendar 1983-85*

FALL SEMESTER

	1983-84	1984-85
Fall Orientation & Registration	Aug. 23-Sept. 1	Aug. 21-Aug. 31
**Labor Day	Sept. 5	Sept. 3
Classes Begin	Sept. 7	Sept. 5
**Columbus Day	Oct. 10	Oct. 8
Last Day to Withdraw	Oct. 11	Oct. 9
Last Day to Remove Incomplete for Spring & Summer Sessions	Oct. 18	Oct. 16
Mid-Semester Exam Period	Oct. 19-25	Oct. 17-23
Mid-Semester Grades Due	Oct. 26	Oct. 24
Veterans Day	Nov. 11	Nov. 11
Thanksgiving Recess (No classes)	Nov. 23-27	Nov. 21-25
**Thanksgiving Holiday	Nov. 24-25	Nov. 22-23
Last Day of Classes (Day and Continuing Education)	Dec. 13	Dec. 11
Final Exam Period (Day)	Dec. 14-21	Dec. 12-19
(Continuing Education)	Dec. 14-20	Dec. 12-18
**Christmas Holiday	Dec. 23-26	Dec. 23-26
**New Year's Holiday	Dec. 31-Jan. 2	Jan. 1

SPRING SEMESTER

Spring Orientation & Registration	Jan. 9-17	Jan. 7-15
Classes Begin	Jan. 19	Jan. 17
**Washington's Birthday	Feb. 20	Feb. 18
Last Day to Withdraw	Feb. 22	Feb. 20
Last Day to Remove Incomplete for Fall Semester	Feb. 29	Feb. 27
Mid-Semester Exam Period	Mar. 5-10	Mar. 4-9
Mid-Semester Grades Due	Mar. 12	Mar. 11
Spring Recess	Mar. 12-18	Mar. 11-17
**Easter Holiday	Apr. 19-22	Apr. 4-7
Last Day of Classes (Day)	May 4	May 3
(Continuing Education)	May 7	May 6
Final Exam Period (Day)	May 7-14	May 6-13
(Continuing Education)	May 8-14	May 7-13
Commencement	May 19	May 18
**Memorial Day	May 28	May 27

*Dates Subject To Change

**University Closed

*Dates Subject To Change

**University Closed

History and Character

Sacred Heart University was founded in 1963 by the Most Reverend Walter W. Curtis, Bishop of Bridgeport. He visualized an institution of higher learning, rooted in the Catholic intellectual heritage and reflecting the ecumenical thrust of post-Vatican II. The University opened its doors to people of every race, creed, handicap, national or ethnic origin located in the southwestern area of Connecticut, which it was designed to serve. The University has been unique since its inception in that it has always been staffed and administered primarily by lay people who reflect in their diversity the ecumenical vision of its founder.

The University's mission is that of a teaching university designed for commuter students. There are no dormitories. Everyone commutes. This configuration represents the original and most basic concepts of higher education as established in the original and revered European universities. The replication of this long-established tradition is further emphasized by the University's commitment to the intellectual development of its students within a well-defined liberal arts program. At the same time, the students are prepared to take their places in the world of useful endeavor by the acquisition of specialized information and skills appropriate to personal goals and the demands of a chosen profession.

The academic objectives of the University are primarily pursued through associate and baccalaureate degree programs, with the on-campus availability of several master's degree programs for even further specialized learning. These levels of advanced education have been established to fulfill the expressed needs of the people of Southwestern Connecticut. And to further fulfill these needs, this community of scholars is dedicated to the holistic notion that the formation of a level of self-knowledge, with individual autonomy and a deep sense of conscious purpose within society, is necessary for the actualization of the potential that exists within us all.

University Directory

To assist you with any problems which may arise during the semester, listed below are the offices, departments, and activities of the University and their exact locations on campus. In addition, a map of the campus is included.

The Campus

ACADEMIC BUILDING

North Wing

1st floor

Offices of:

- Academic Vice President and Provost
- Dean of Humanities & Social Sciences
- Dean of Mathematics & Science
- Campus Ministry
- Continuing Education (part-time students)
- Departments of Biology, Chemistry and Nursing
- Department of Art and Music (lower level)

2nd Floor

Offices of:

- Dean of Business Administration
- Departments of Accounting/Finance, Economics, Management, Secretarial Science, Legal Assistant Program, and M.B.A. Program

South Wing

1st Floor

Offices of:

- Vice President & Dean of Students
- Department of Psychology (past Gymnasium to lower level)
- Department of Modern Foreign Languages
- Bridgeport Engineering Institute (BEI)

Gymnasium

WSHU-FM (91.1)

Music Room (Room A)

Nurse's Station

University Dining Room

Bookstore

Student Pub

Audio Visual Room

Duplicating Center & Mail Room

Security

2nd Floor

Offices of:

Workshop Skills Center
Department of English

Center Wing

Auditorium

Chapel

Offices of:

Cooperative Education
Coordinator of Student Services
Information Center
Registrar (located in Center Lounge)
Student Government and Student Lounge

ADMINISTRATION BUILDING

1st Floor:

Offices of:

President
Treasurer

Business Offices

Cashier

Media Studies Studio

Payroll

2nd Floor

Offices of:

Department of History/Political Science
Department of Mathematics/Operations Research/Computer Science
Department of Media Studies
Department of Religious Studies

Center for Ethnic Studies

Center for Policy Issues

Personnel and Purchasing

CAMPUS CENTER

1st Floor

Admissions

Associate Vice President, University Relations

Community Room

Special Events

Student Lounge

Lower Level

Alumni

Development

News Bureau

OBELISK (Campus Newspaper)

PROLOGUE (Yearbook)

University Relations

2nd Floor

Career Planning & Placement

Counseling, Newcomers Center & Housing

Financial Aid

LIBRARY

Main Level

Offices of:

Librarian & Staff

Lower Level

Leonard A. Schine Auditorium (Lecture Hall)

Upper Level

Instructional Materials Center

Media Room

JEFFERSON HOUSE

1st Floor

Department of Education & M.A.T. Program

2nd Floor

Center for Applied Ethics

Department of Philosophy

PARK AVENUE HOUSE

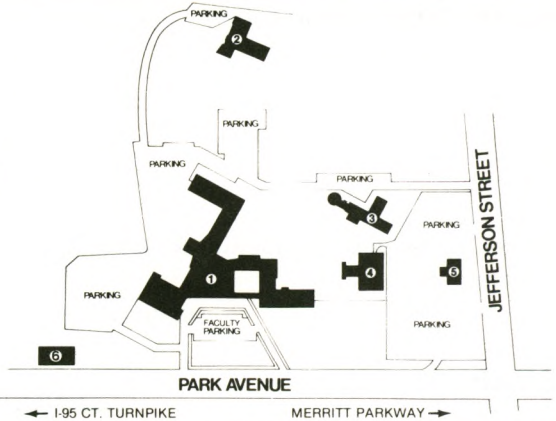
Department of Sociology/Social Work/Criminal Justice

Sacred Heart University

Fairfield, CT.

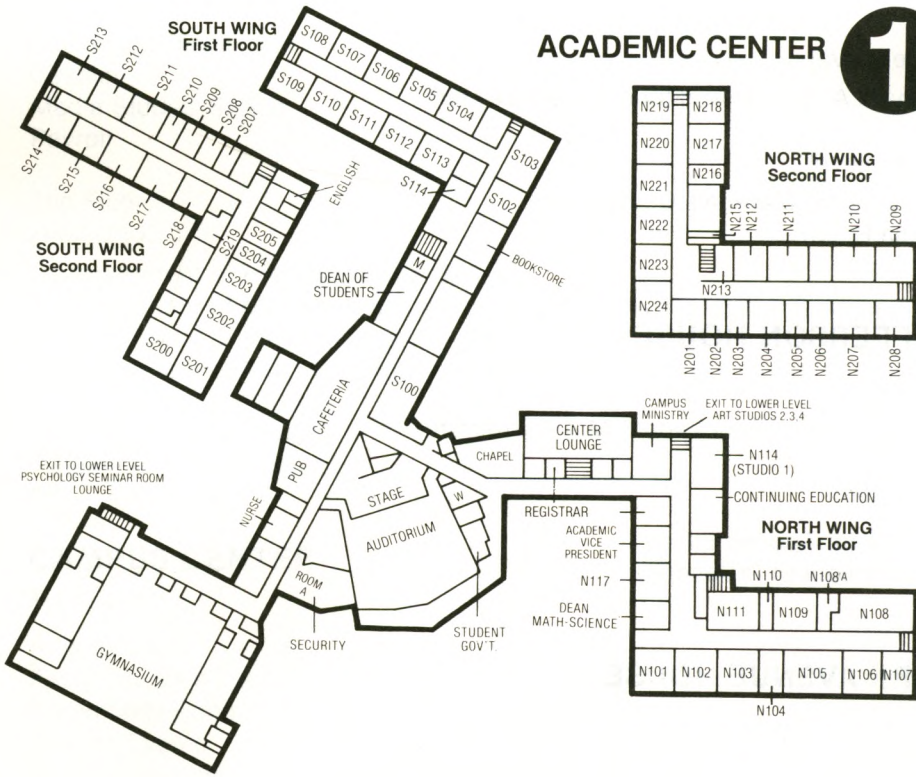
THE CAMPUS

- 1. Academic Center
- 2. Campus Center
- 3. Administration Center
- 4. Library
- 5. Jefferson House
- 6. Park Avenue House

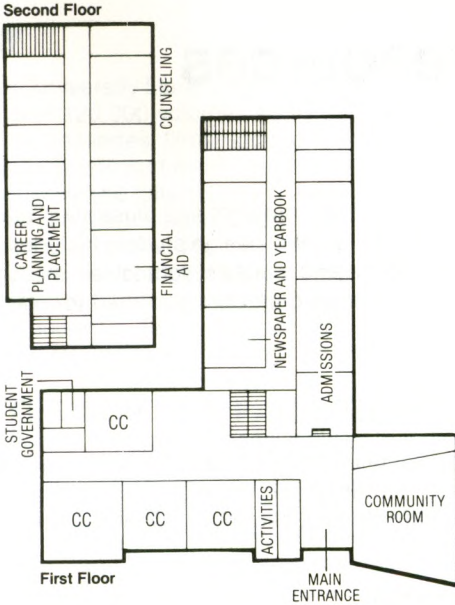


ACADEMIC CENTER

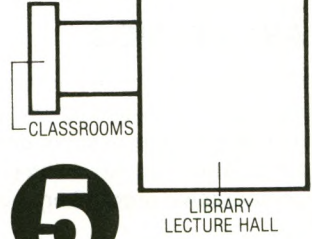
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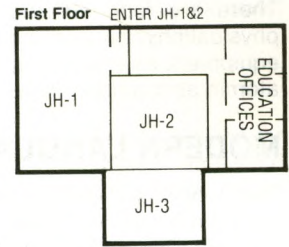
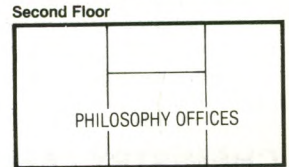
2 CAMPUS CENTER



4 LIBRARY

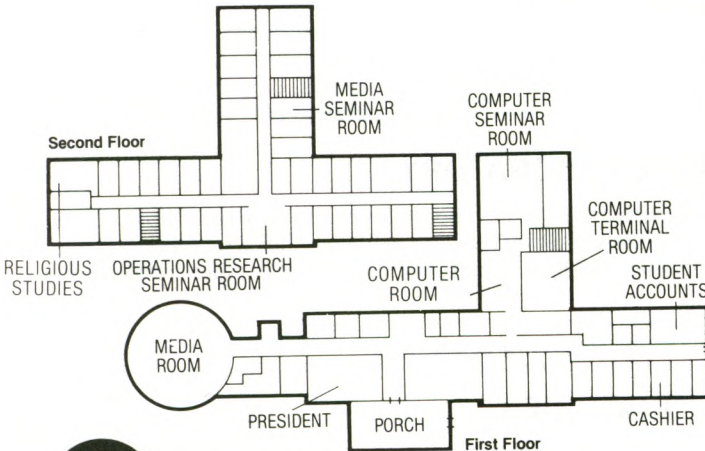


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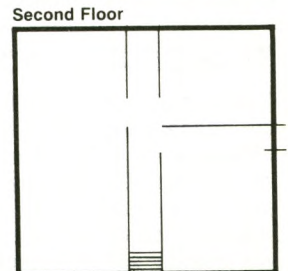
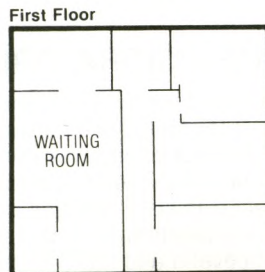


CLASSROOMS WITH PREFIXES:

- AD = Administration Center
- CC = Campus Center
- L = Library
- JH = 83 Jefferson



3 ADMINISTRATION BUILDING



PARK AVENUE HOUSE

6

Academic Resources

ART STUDIOS

Studio work facilities include painting, design, drawing and illustration studios. Major equipment provided for the illustration and graphic design student includes a reproduction/process camera, headline units, typesetting facilities, light tables, artograph projector, air brushes, mounting presses and a small darkroom equipped for black and white photographic processing.

BIOLOGY LABORATORIES

The Biology Department has a number of well-designed laboratories for both descriptive and experimental work. Modern equipment is used for techniques such as electrophoresis, spectrophotometry, high-speed centrifugation, Warburg tissue respiration, multi-temperature incubation, radio-isotope counting, oscillography, animal experiments and plant growth-physiology experiments.

CHEMISTRY LABORATORIES

There are four laboratories, specifically, inorganic/analytical, organic/biochemistry, physical/physics and instrumental analysis. These facilities also contain such major equipment as UV/VIS recording spectrophotometer, pH meters, gas chromatographs, atomic absorption, analytical balances and an IR spectrophotometer.

MODERN LANGUAGES LABORATORY

The Department of Modern Languages offers a modern and up-to-date laboratory which provides the students with ample opportunity to hear a variety of native speakers, practice and reinforce language and phonological patterns, copy master tapes, record and hear their voices.

Furthermore, a selection of recordings of great writers and literary critics as well as topics concerning culture and civilization are available.

PSYCHOLOGY LABORATORIES

The Psychology Department's extensive laboratory provides the space needed for this predominantly behavioral and experimental department. Both human and animal research is possible with the equipment available in the psychology labs. Instrumental conditioning devices and a human test system both interface with electro-mechanical programming modules to produce a broad range of research possibilities. Other facilities provide opportunities to explore sensation, perception, memory, experimental social psychology and biofeedback.

SECRETARIAL SCIENCE LABORATORIES

The Secretarial Science Laboratories are housed on the second floor of the north wing of the Academic Center. Secretarial students have access to modern equipment such as IBM Selectric typewriters, IBM Self-Correcting typewriters, various electronic typewriters and modern cassette transcribers. In the word processing laboratory, students are exposed to text-editing equipment with such features as self-contained memory, single-line display and full-page CRT units. Equipment currently housed there includes Vydec's, Wangwriter, MICOM 2000, KYX Level II and the Compucorp Word Processing System. These labs are open for secretarial students on weekends as well as during weekdays.

LIBRARY

Sacred Heart University Library offers a variety of materials and services for students. In addition to over 120,000 volumes and 1,000 periodical titles, students will find phonograph records, cassettes, filmstrips and slide sets available for their use. Professional librarians regularly conduct instruction sessions for individuals and class groups, so that these resources will be fully utilized. Individual term paper assistance and computerized literature searching are also available.

Facilities include quiet study areas, two smoking lounges and an Instructional Materials Center. There are photocopy machines, microfilm and microfiche readers, reader-printers and typing booths available. Films, special events and classes frequently take place in the Leonard A. Schine Auditorium. The Library is open 86 hours a week during regular semesters, including evenings and weekends.

COMPUTER SCIENCE FACILITIES

At present there are 17 CRT terminals, eight hardcopy terminals, and a fast-line printer available in the Computer Terminal Room at Sacred Heart University. These terminals are connected to the IBM 370/158, IBM 4341 and DEC system 2060 computers at Yale University. Twelve Apple microcomputers are also available.

Another CRT terminal and Apple II microcomputer are located in the Computer Science Seminar Room. The video output of these two devices can be projected on a four by six foot screen by a Telebeam II projector.

The library's reference collection in mathematics, operations research, and computer science contains over 3,000 volumes.

MEDIA STUDIES FACILITIES

The focus of the Media Studies Department is a multi-purpose studio which is used for video, film and audio production. The facility features both color and black-and-white video tape recording and editing capabilities. New color-cassette field recording equipment provides opportunities for outside video production. Studio lighting instruments, with remote-controlled dimmers, provide production capabilities for both video and filmmaking. In addition, the Department utilizes two film editing rooms and two screening areas.

The campus radio station, WSHU-FM (91.1), also serves as a learning laboratory for Media Studies students as well as other interested Sacred Heart students. This 1000 watt stereo signal carries throughout much of Fairfield County and to parts of Long Island. The station facility includes two production studios, a news room with teletype news service, a record library, a large adjoining studio, as well as the on-air studio. WSHU features a progressive blend of contemporary and classical music, news, public affairs programs and a number of locally produced community-related specials.

WORKSHOP SKILLS CENTER

The Workshop Skills Center, located in the south wing of the Academic Building, is a place for individualized and small group instruction, where students, in all disciplines and at all levels, can come voluntarily or on referral, to develop and improve their oral and written communication and reading and study skills.

With a focus on the student and on the processes of learning and language development, the Workshop Skills Center creates an interdisciplinary and comprehensive learning environment by means of individual tutoring, audio-visual presentations, a continuous program of small group workshops, and a complete resource file of audio-visual materials, workbooks, and self-help learning modules.

The Workshop Skills Center is a student-centered learning environment committed to teaching and learning as a process, and to teaching and learning language skills across the curriculum.

In addition to the above facilities

Sacred Heart also furnishes a center lounge for study or friendly chats, a health service center, a dining room operated by a professional food service, a learning resource center and a pub—the common crossroads for many of the people of the Sacred Heart Community.

Admissions

Sacred Heart University Admissions requirements are designed to admit applicants who have completed a high school diploma or its equivalent. Students can be admitted under a number of full-time, part-time or evening programs. The University offers its programs to the southwestern Connecticut community at times and places that are convenient to the constituency served. No residential facilities are provided on-campus. However, the University does provide a list of potential off-campus housing to its students. In addition to high school graduates, the University accepts transfer students from other regionally accredited colleges. College graduates interested in furthering their education are also welcomed.

Sacred Heart University supports the efforts of secondary officials and governing bodies to have their schools achieve regional accredited status to provide reliable assurance of the quality of the educational preparation of its applicant for admission. Sacred Heart's admissions policy does not discriminate because of race, national origin, color, sex, handicap, age or religious belief.

Applicants can be admitted into one of the following categories:

Baccalaureate

Students admitted into the Baccalaureate Program meet all the academic requirements and are permitted to register as fully matriculated students in all undergraduate programs.

Conditional Baccalaureate

Students admitted to the Conditional Baccalaureate program meet admissions requirements; however, special consideration is given in selecting courses within the academic programs.

Associate

Students admitted to the Associate programs meet the admissions requirements for one of the following two year programs: Associate in Arts, General Studies; Associate in Science, Secretarial; Associate in Science, Computer Science; Associate in Science, Paralegal Studies or Associate in Science, Banking.

Developmental Studies Program (DSP)

Students admitted to the DSP Program normally do not meet all the admissions requirements but show sufficient potential to be admitted full-time to the University. Students in the DSP Program will be given special assistance in the area of oral, written and study skills. DSP students are limited to 12 credit hours for their first semester.

Special

Qualified students who give evidence of meeting the admissions requirements, but who have not completed the program for admissions, are accepted as special students. Special students may take courses for which they qualify but not as degree candidates. Final decision concerning the full matriculation of special students will be made by the admissions committee at a later date. Students in the special program are subject to review before continuing in the University on a semester by semester basis. Qualified high

school students may be admitted to the University after completion of their junior year in a special early admissions program.

Full-Time Study

Students interested in full-time study on the undergraduate level should contact the University Admissions Office for an application. Application to the University can be made by completing the following items:

1. Complete the application and send it to the Admissions Office with a \$15 application fee.
2. Have an official high school and/or official college transcript sent to the Admissions Office.
3. Have Educational Testing Service, P.O. Box 592-A, Princeton, New Jersey 08541 send official SAT report to the Admissions Office (University code is 3780).
4. The Admissions Office will set up a personal interview after your application is filed. The address of the Admissions Office for the above items is: **Admissions Office, Sacred Heart University, P.O. Box 6460, Bridgeport, CT 06606.**

The Admissions Office operates on the rolling admissions system, that is, notification of acceptance will be determined as soon as all the credentials have been received. In order to ensure adequate time for processing your application, the above items should be completed as early as possible: May 1 for September admissions and December 1 for January admissions. Late applications after these dates are also considered if time and room is available in the class.

Part-Time Study

All part-time day and evening undergraduate students are admitted through the Office of Continuing Education. The Office of Continuing Education is committed to the development of programs and educational opportunities for the part-time student. Special offerings, in addition to the regular undergraduate offerings, are One Morning Only, certificate programs in computer science, data processing, word processing and non-credit courses for the personal, professional, cultural and social development of the adult student. Typical offerings in the non-credit areas are real estate, interior design, travel agent and effectiveness training for women. Persons interested in enrolling should contact the Director of Continuing Education for an application, program information and counseling. The procedure for admissions to degree programs for continuing education students is:

1. Complete a part-time application and return to the Office of Continuing Education.
2. Have an official transcript of both high school and college work sent to the Office of Continuing Education.
3. Make an appointment with the Office of Continuing Education to discuss academic curriculum and course offerings.

Admissions decisions will be made when the above items are completed. Persons can enroll as special students before completing the above.

Students wishing to matriculate for a degree program must complete the above procedure before completing 15 credits. The mailing address for the Office of Continuing Education is: **Office of Continuing Education, Sacred Heart University, P.O. Box 6460, Bridgeport, CT 06606.**

Non-matriculated students wishing to change from part-time to full-time status are required to be admitted officially by a member of the Admissions Office.

Transfer of Credit

Any student who has attended another regionally accredited institution and wishes to transfer to Sacred Heart University must present an official transcript at the time of admission to the Admissions Office (full-time) or Office of Continuing Education (part-time). Credit will be awarded for courses which carry grades of C or better and which parallel University offerings. The University reserves the right to examine selected courses to determine whether or not their content and quality fits the University's purpose and goals. Once a student is matriculated, no courses normally will be accepted unless prior

written permission of the Associate Dean and Registrar is obtained. The University normally will accept a maximum of 66 credits from junior colleges and 90 credits from four-year institutions.

The University will grant 45 credits in the appropriate curriculum areas to those students who have a three-year R.N. diploma from an accredited institution.

Academic Programs

Master Degree Programs:

Master of Business Administration

The Master of Business Administration program is designed to prepare men and women for positions of administrative responsibility in business, as well as non-profit and governmental institutions, while bringing students to a full realization of the ethical and social responsibilities inherent in the managerial role.

Students receive a broad understanding of business and organizational problems, a sound knowledge of effective methods of solving these problems, the analytical skills necessary for recognizing problems and implementing solutions, and an appreciation of the place and the responsibility of the business person and the administrator in our society. A fundamental philosophical context of the program is the consideration of ethics in the functioning of the business enterprise.

The MBA is also offered in Health Care Administration to provide students advanced training in business management for positions of responsibility in the health care field. The specialty combines the MBA curriculum with core courses and electives in Health Care Administration.

For applications and additional information about the MBA contact: **PROGRAM DIRECTOR—MBA, SACRED HEART UNIVERSITY, P.O. BOX 6460, BRIDGEPORT, CT 06606, (203) 371-7850.**

Master of Arts in Religious Studies

The graduate program in religious studies is designed to suit the needs and interests of a wide variety of students. Whether one wishes to prepare for doctoral work in religion, to pursue a career in religious education, or to learn more about western religious traditions in order to enrich one's personal and/or professional life and activities, the program supplies a broad range of valuable resources. Each graduate student, in consultation with a faculty advisor, is encouraged to select a field of concentration and to plan an appropriate course of study. While the program cannot support specialized study in all aspects of the field of religion, a number of different concentrations is possible. The student is free to design his/her own program of study, provided that it is coherent and the resources needed to maintain it are available at the University.

For applications and additional information about the MARS contact: **PROGRAM DIRECTOR—MARS, SACRED HEART UNIVERSITY, P.O. BOX 6460, BRIDGEPORT, CT 06606, (203) 371-7730.**

Master of Arts in Teaching

Teachers are facing new problems and needs in today's classrooms. Sacred Heart University has responded by introducing a graduate program in field-based education, focusing directly on the practical aspects of classroom teaching. Designed by a Graduate Advisory Council of 23 teachers and other educators in Fairfield County for teachers in the local public and private schools, the new program offers a Master of Arts in Teaching (MAT) as well as non-degree in-service teacher training at the graduate level. The field-based curriculum is also intended to serve as a prototype for statewide school systems, as they accept the validity of the classroom in the field as the training ground for more effective teaching.

A Master of Arts in Teaching may be completed in one of the following five areas of concentration:

Human Development and Alternatives in Education focuses on the affective components of the teaching/learning interaction. Teachers come to understand their own feelings, needs and attitudes for greater teaching effectiveness. In turn, they learn skills that will help students realize their full potential. Special emphasis is placed on alternative approaches to traditional teaching.

Bilingual/TESOL (Teaching English to Speakers of Other Languages) trains teachers to work with students on the elementary and secondary level who have a non-English language dominance. Bilingual education is for majors in any subject specialty. TESOL is for English majors.

Mainstreaming offers training for regular classroom teachers who wish to specialize in educational techniques and strategies for mainstreaming learning disabled, emotionally disturbed and physically handicapped children in the regular classroom.

Early Childhood Education provides a strong focus on child development and curriculum for teachers of young children in day care centers, nursery schools, kindergartens, and primary grade classrooms.

Professional Improvement is designed to improve skills in the general areas of teaching. It is also open to other professionals, where appropriate.

For applications and additional information about the MAT contact: **DIRECTOR—GRADUATE EDUCATION PROGRAMS, SACRED HEART UNIVERSITY, P.O. BOX 6460, BRIDGEPORT, CT 06606, (203) 371-7801.**

Master of Science in Applied Operations Research

The primary objective of the Master of Science in Applied Operations Research is to provide a broadened perspective at the graduate level for development of an applied operations researcher capable of dealing with the complexities and dynamic properties of our modern socio-cultural system. This Operations Research specialist will be able to consider alternative solutions and to choose those solutions promising maximum efficiency and minimal cost in a complex network of interactions. The student will develop the capabilities to employ a variety of mathematical methods to model a particular system under study, utilizing descriptive methods such as computer applications, probability, statistics and stochastic processes, as well as prescriptive methods such as mathematical programming techniques.

For applications and additional information about the MSAOR contact: **PROGRAM DIRECTOR—MSAOR, SACRED HEART UNIVERSITY, P.O. BOX 6460, BRIDGEPORT, CT. 06606, (203) 371-7770.**

BACCALAUREATE DEGREE PROGRAMS

The University offers the degrees of Bachelor of Arts and Bachelor of Science. Students may major or minor in:

Department of Art and Music: Art, Music (minor only)—Areas of Study: Painting, Illustration, Graphic Design, Music

Department of Biology: Biology—Areas of Study: Environmental Biology, Medical Biology, Allied Health Sciences, Pre-Medical Program, Biology Education

Department of Business: Accounting, Finance, Economics, Management—Areas of Study: Management, Marketing, Business Education, Legal Administration

Department of Chemistry and Physics: Chemistry—Areas of Study: General Chemistry, Biochemistry, Physics, Allied Health, Pre-Medical Program

Department of Education: Certification: Elementary (N/K-7), Secondary (7-12). Fields of Secondary Certification: Biology, Business, Chemistry, English, History, Social Studies, Mathematics, Spanish, General Science—Areas of Study: Bilingual/TESOL, Early Childhood

Department of English: English—Areas of Study: Literature, Writing, Drama

Department of History, Political Science: History and Political Science

Department of Mathematics, Operations Research and Computer Science: Mathematics, Operations Research, Computer Science

Department of Media Studies: Media Studies—Areas of Study: Journalism, Broadcasting, Film, Video

Department of Modern Foreign Languages: Spanish—Areas of Study: Arabic, Chinese, French, German, Greek, Gaelic, Hungarian, Italian, Lithuanian, Bilingual/Bicultural Education

Department of Nursing: Nursing

Department of Philosophy: Philosophy

Department of Psychology: Psychology

Department of Religious Studies: Religious Studies

Department of Sociology, Social Work, and Criminal Justice: Sociology, Social Work, Criminal Justice

BACCALAUREATE CURRICULUM

All candidates for the Bachelor of Arts or Bachelor of Science degree must complete the following requirements:

1. 120 credits with a minimum of 30 credits taken at the University and with a minimum grade point average of 2.0.
2. A core curriculum consisting of the following:
 - a) The establishment of a proficiency in both written and oral rhetoric as determined by the Department of English. A grade of C or better is required in all courses taken to establish this proficiency.
 - b) Nine credits chosen from at least two of the following disciplines in Area I: Fine Arts, History, Literature and Modern Foreign Languages.
 - c) Nine credits chosen from at least two of the following disciplines in Area II: Anthropology, Economics, Political Science, Psychology and Sociology.
 - d) Nine credits chosen from at least two of the following disciplines in Area III: Biology, Chemistry, Mathematics and Physics.
 - e) Nine credits chosen from at least two of the following disciplines in Area IV: Philosophy and Religious Studies.
3. For the B.A. degree, the establishment of a proficiency in Modern Foreign Language to the intermediate level. For the B.S. degree, the establishment of a proficiency at the level of Modern Math I and II (Mt 001 and Mt 002). Statistics (Mt 005) can be substituted in place of Mt 002.
4. A major concentration consisting of not less than 30 credits nor more than 58 credits as determined by the major department. See the departmental sections for required courses within a given major. At least one half of the minimum major requirements must be taken at the University. A grade of C or better is required in all major courses. In addition to the major requirements, some departments require related supporting courses in their major.
5. The number of elective courses depends upon the core and major requirements. Electives should be chosen in consultation with the student's major advisor. Serious

thought should be given to the choice of electives especially in the area of career planning. Students can take their electives in a minor sequence.

ASSOCIATE DEGREE PROGRAMS

Sacred Heart University offers an Associate of Arts (A.A.) degree in General Studies with concentrations in Accounting, Allied Health, Banking, Biology, Business, Chemistry, Economics, English, Fine Arts, History, Legal Assistant, Mathematics, Media Studies, Philosophy, Political Science, Psychology, Religious Studies, Sociology or Spanish.

Also available is the Associate of Science (A.S.) degree in Computer Science, Data Processing, Legal Assistant, Professional Secretarial Science or Banking.

Associate in Arts (General Studies) Curriculum

All candidates for the Associate in Arts (General Studies) Degree must complete the following requirements:

1. Sixty credits with a minimum of 30 credits at the University. A minimum grade point average of 1.8 is required.
2. Core curriculum consisting of the following:
 - a) The establishment of a proficiency in both written and oral rhetoric as determined by the Department of English. A grade of C or better is required in all courses taken to establish this proficiency.
 - b) 6 credit hours chosen from at least 2 of the following disciplines in Area I: Fine Arts, History, Literature and Modern Foreign Languages.
 - c) 6 credit hours chosen from at least 2 of the following disciplines in Area II: Anthropology, Economics, Political Science, Psychology and Sociology.
 - d) 6 credit hours chosen from at least 2 of the following disciplines in Area III: Biology, Chemistry, Mathematics and Physics.
 - e) 6 credit hours chosen from the following disciplines in Area IV: Philosophy and Religious Studies.
3. A concentration consisting of not less than 15 credit hours.
4. Elective courses chosen in consultation with the student's advisor.

Associate of Science—Banking

Sacred Heart University, in conjunction with the American Institute of Banking, offers a two-year program combining banking and liberal arts courses designed for banking personnel.

Required Courses:

The following courses must be taken at Sacred Heart University:

AC 103-104 Accounting for Managers I, II
 BU 201 Organizational Management
 EC 201-202 Principles of Economics
 18 credits of liberal arts electives

The following courses may be taken at either SHU or through the American Institute of Banking (AIB):

EN 011 or Effective English
 EN 012 or Bank Letters and Reports
 CA 021 or Effective Communications
 BU 231 or Commercial Law

Five bank-oriented three credit courses must be taken through AIB.

Students seeking admission to this program should contact the Director of Continuing Education.

Associate of Science—Paralegal Program

The American Bar Association recognizes that legal assistants are serving an important role in providing excellent legal services for the American public. Well-qualified paraprofessional personnel serving as legal assistants can handle many of the responsibilities inherent in a law practice. The American Bar Association has encouraged its members to support the training and employment of such assistants.

In March, 1973, the Connecticut Bar Association sponsored a conference on paralegals for its members and for teachers in the fields of general and legal education. At this meeting the growing need for competent and responsible paralegals was examined.

To meet this need, Sacred Heart University established a two-year program leading to an Associate in Science degree in Paralegal Studies. The four-semester sequence is structured to provide the legal training and general academic background necessary to function effectively as a legal assistant. This course of study may also be incorporated into a baccalaureate degree program.

Legal specialty classes are taught by qualified attorneys. General academic courses are taught by Sacred Heart University faculty members. In addition, the resources of the various branches of the Fairfield County Law Library have been placed at the disposal of students enrolled in the program.

The program has been granted final approval by the American Bar Association.

Associate of Science—

Professional Secretarial Science Program

The Professional Secretarial Studies program offers qualified students four specialized areas of concentration—Executive Secretarial, Legal Secretarial, Medical Secretarial and Word Processing. As a college trained student, you will develop specialized secretarial and office management skills, competence in business and a solid foundation in the liberal arts.

Associate of Science—Computer Science, Data Processing

The introduction of computers and their subsequent use in society is one of the most significant developments of the mid-twentieth century. Less than 35 years old, the computer industry is one of the largest in the United States today. Computer technology is still developing at an ever increasing pace and the uses of computers in society are growing in number and scope. The use of computers in all types of information processing can be considered one of the most promising growth areas in the United States.

An Associate of Science degree program in Computer Science is offered. There are two options—the first option in Computer Science and the second option in Data Processing. The first option would enable a student majoring in mathematics, operations research or the sciences to seek employment in industry or government. The second option would enable business students or individuals working with computers in business to have a formal education in data processing in order to advance their careers.

Special Academic Programs

Honors Program

The Honors Program offers challenging interdisciplinary courses for students who excel at academic work. The classes are small, team-taught, and encourage critical, independent thinking. The Honors curriculum is comprised of courses created specifically for the program. An Honors course may integrate material from diverse fields or focus on one topic from a variety of perspectives. Under special circumstances, upper-division seminars offered by the many departments at the University may also be taken for Honors credit.

Students are normally admitted into the Honors Program in their first year because of outstanding performance on the English placement exam. In order to enter the Program in a later year (or to remain in the Program), students must have an overall cumulative average of at least 3.0.

A minor in Honors is granted when 18 credit hours of Honors courses are successfully completed. With the approval of the instructor and Honors Program director, students who are not in the Program are welcome to enroll in particular Honors courses. For further information, contact the Honors Program Director.

Pre-Professional Programs

Pre-Medical/Pre-Dental

The Liberal Arts Program at Sacred Heart University offers all the courses required for admission to professional schools. Students usually major in biology or chemistry since these curricula enable the student to obtain those courses which are recommended and desired by medical and dental schools. A pre-med advisor will guide you in your course selection and assist you in securing admissions to medical or dental colleges. Contact the Chairman of the Biology or Chemistry Department for further information.

Pre-Law

There is no prescribed or preferred pre-law course required for admission to law school. If you are interested in law as a career, you can choose a major in the humanities or social sciences. The pre-law advisor will help you design your own pre-law program and will aid you in the procedures for law school admission.

Education

The University offers programs for the preparation of both elementary and secondary school teachers. Upon completion of one of the programs, a graduate may apply for provisional certification to teach in the public schools of the State of Connecticut for a period of ten years. There is a reciprocity agreement with twenty-five other states.

Since these professional programs are complementary to the core curriculum and the concentration in a major field of study, graduates of these programs have the skills that are necessary for teaching, and in addition, have skills that are valuable in many other professions. The programs are valuable for their help in developing such personal qualities as respect for human diversity and personal rights; compassion and understanding of peoples from various cultures; formation of the habit of extending one's interests and the ability to cope with occupational change because of being well-informed on how to learn, unlearn and relearn. The Education programs are conducted in cooperation with many southwestern Connecticut public and private school systems. Contact the Director of Teacher Education for further information.

Allied Health Sciences

A recent study concerning nursing education recommends that in addition to the strong clinical orientation considered to be a hallmark of the hospital-based nursing education, Schools of Nursing should avail themselves of the opportunities provided by universities to enhance the academic supporting studies required of a modern educated nurse. Sacred Heart University offers an Associate of Arts degree in general studies in Allied Health Sciences in affiliation with St. Vincent's Medical Center School of Nursing and the Bridgeport Hospital School of Nursing. Both are nationally accredited by the National League of Nursing. This joint effort between the hospitals and Sacred Heart University gives students the opportunity of future upward mobility in their continued education in the field of nursing.

Students at both Bridgeport Hospital and St. Vincent's are required to take general education courses in addition to their major nursing courses to qualify for the nursing diploma. Bridgeport Hospital requires 34 general education credits and St. Vincent's requires 37 general education credits.

Students completing requirements at either School of Nursing receive a diploma and are eligible to take the State Board Licensing Examination for the registered nurse.

This program is also open to registered nurses who have graduated from other Schools of Nursing. Ten credits may be transferred from a nursing curriculum approved by the University.

For further information contact the Director of Allied Health Sciences.

One Morning Only Program

One Morning Only is a college re-entry program for adults. Courses are usually scheduled from 9:15 a.m. - 12 noon once a week. More than one course may be taken at a time.

Resident faculty familiar with the University and its facilities are instructors for these courses. Courses offered in the past have been in the areas of English, Religion, Biology, Literature, Psychology, Philosophy, Social Work and Effective Communication. At present courses are offered only during the Fall and Spring semesters.

Prior to registering for One Morning Only, an orientation program including a tour of the campus is conducted.

Many of our One Morning Only students continue to take other college courses and eventually matriculate. Matriculation, a process indicating a decision to pursue a degree program, can occur after taking 12 credits.

Child care services are available off-campus nearby at the Carol Ney Early Learning Center.

Counseling is available for One Morning Only in the Continuing Education Office, Room N113.

17/62 Program

The 17/62 Program encourages high school seniors and adults 62 years or older to take college courses. Course offerings will vary each semester. High school seniors must be recommended by their high school counselor. Contact the Admissions Office for information. Senior citizens should contact the Department of Continuing Education for more information.

Life/Work Experience (LWX)

Recognizing that higher education "happens" in many ways outside of the college classroom, Sacred Heart University awards academic credit to its students for intellectual skills and special knowledge acquired through life and/or work experience. Students may receive LWX academic credit for demonstrated intellectual, professional, cultural or scholarly achievement in five specific areas:

Self-Education through extensive reading, travel, creativity in the arts, published writings and lecturing, can qualify students for academic credit.

Certification such as professional certification in a government agency or hospital, paraprofessional certification in technical and legal areas, business licenses and similar credentials will be considered.

In-Service Training Programs deal with on-the-job experience under the supervision of recognized professionals or practitioners. Experience in military service, the government, computer programming, banking and insurance computation are among the programs that qualify students for academic credit.

Management Work Experience is obtained through positions or careers that require independent judgment and interpersonal, analytical and problem solving skills. A wide range of managerial and administrative positions in corporate business organizations, social and religious agencies, as well as legislative and governmental bodies, may provide opportunities for credit.

Volunteer Experience involving a service that is responsible for personal and professional growth will be a consideration for academic credit.

Procedure for Life/Work Experience (LWX)

As an applicant for LWX credit, you must be enrolled full-time or part-time in the University. Completion of at least one academic semester is required before you apply for credit.

The University's LWX Policy

Sacred Heart awards LWX credit only in areas covered by—or relating to—the University's courses, programs and departments. Letter grades are not given for LWX credit. Quality point average is computed only on classroom grades.

Classroom Credits and LWX Credits for a College Degree

All Baccalaureate and Associate degree candidates must complete a minimum of 30 classroom credits at Sacred Heart University. LWX credits may not replace these credits

but may be used to meet degree requirements as major courses, core courses and electives. A maximum of 60 credits can be awarded in the LWX-CLEP Programs.

Planning Your Portfolio

We are available at the Office of Continuing Education to help you develop your Life/Work Experience portfolio—the basic document for LWX credit. Before you begin to assemble your portfolio, your first step should be planning a conference with a Continuing Education counselor. Come into the Office of Continuing Education, or call us, to arrange for an appointment and an application, and also to find out about LWX deadlines and procedures.

Deadlines for Portfolios

The deadline for submitting portfolios will be established for each semester. Action on portfolios received after the deadline will be deferred until the following semester. Portfolios will not be accepted for review during a student's graduating semester.

Presenting Your Credentials

Credit awarded through this program is more difficult to evaluate than traditional classroom credit. Therefore, your portfolio should be as complete and descriptive of your Life/Work Experience as possible. Try to relate your experience to course descriptions in the University's catalog. The quality and depth of experience as well as a detailed time schedule (number of hours per day, days, months, years spent in purposeful work or study) must be described and documented. In evaluating your experience, the University emphasizes learning derived from the experience, rather than the experience itself. Supporting evidence of your achievements, including certificates, awards, licenses, supervisors' letters of evaluation, press clippings and bibliography of materials studied, as well as samples of work, such as publications, tapes, paintings, graphics, musical compositions and slides will help us determine your eligibility and the extent of credit that has been earned.

Completing Your Portfolio

Artistic work must be signed and dated; media must be listed. Photographs or slides of sculpture and craft work must be identified by date, media, size and present location.

In the field of management, a formal job description accompanied by a letter of evaluation from an immediate superior is most helpful. Candidates are expected to describe the extent of their responsibilities in planning, controlling and evaluating a given function within a company.

A writer is expected to submit samples of published or printed work.

To demonstrate the value of travel, candidates might write or tape record a travelogue, possibly accompanied by representative photographs or slides highlighting the historic, architectural and/or artistic significance of places visited.

Experience in the area of social or psychological services must be confirmed by letters of evaluation from the program supervisor(s) as well as the candidate's description of the service performed, the client(s) receiving the service and the amount of time spent performing the service.

Language proficiency must always be demonstrated by a departmental interview, following a description of the candidate's involvement with the language and/or language studies. Credit is offered for knowledge of history and culture. CLEP examinations (see section on CLEP) are available for intermediate French, German and Spanish grammar.

Requests for credit in speech (see CA 021) must be accompanied by documentation of experience in oral communication. A 5-20 minute oral presentation before a panel of speech faculty is required.

The Essay

In addition to the supporting materials described above, students must include an essay in their portfolio that critically analyzes the learning derived from their experience in relation to the departmental course or program for which credit is sought. The essay topic may be assigned by the awarding department.

Your portfolio should also include a resume that outlines the experience relevant to your application.

Submitting Your Portfolio

A LWX portfolio, accompanied by a completed LWX application, your resume and an application fee of \$35, should be submitted to the University's Director of Continuing Education. Please keep duplicate copies of all documents. Portfolios are maintained for one year from the point of award. At that point, students will be notified to secure their portfolios. If that is not done within one month, the portfolio will be destroyed.

Credit

The Director of Continuing Education sends a copy of your portfolio to the chairperson of the appropriate academic department for a preliminary determination of credits to be awarded. You may also be called for an interview with the chairperson.

Your portfolio is then returned to the Office of Continuing Education, considered by the Dean of the appropriate division, and credit is awarded by the Academic Vice President and Provost. If credit is refused, your portfolio will be returned.

Notification and Fees

Notification of credit award is made by the Academic Vice President and Provost. A fee of \$20 per credit is payable to the Business Office prior to the formal award of credit.

College Level Examination Program (CLEP)

CLEP is a national program awarding college credit by examination. Sacred Heart University—an official CLEP test center—offers a series of exams for students seeking a college degree. College credit is awarded when a student successfully passes a CLEP exam. Students may not apply for Life/Work Experience (LWX) if a CLEP exam is available in the same area. Some departments require additional work beyond the CLEP exam.

The Department of Continuing Education has specific information about the program and a schedule of testing dates. General exams and specific subject tests are offered on the third Saturday of every month, except December and February.

Since CLEP results usually take 4-5 weeks to be reported, students may not take CLEP exams in a graduating semester.

Applications and registration guides are available at the Office of Continuing Education. A full list of subject exams is included in the registration guide. Completed forms for the CLEP examinations should be returned to the Continuing Education Office at least four weeks before the exam date is scheduled.

CLEP/LWX procedures vary slightly among departments. Be certain that you have followed all appropriate procedures prior to final submission of materials. Fees and requirements are subject to change.

Speech waivers and composition waivers and term paper/essay requirements for the En 011-012 CLEP exam must be submitted within the first five weeks of the semester and not during a graduating semester. Please contact the English Department to acquaint yourself with these policies.

All students may take the CLEP exams to fulfill area requirements. The University offers students the opportunity to take the NLN (National League for Nursing) challenge examinations in Microbiology and Normal Nutrition either in August or January. For additional information concerning the exams, contact the Continuing Education Office.

Independent Study and Individual Instruction

Independent study is available for qualified students who want to do more advanced or specialized work in a given academic area. Faculty members will guide the student in the research needed for the study. Only students who have officially declared their major

and who have successfully completed at least 15 credits will be able to enroll. Ordinarily, a maximum of 6 credits will be permitted towards the Baccalaureate degree.

Individual instruction is available for students who need a specific course to fulfill their degree requirements but are unable to schedule the course for a valid reason; e.g., involvement in student teaching, field experience or unavailability of course. The syllabus for individual instruction conforms to the usual requirements, including required assignments, for that course. No student will ordinarily be permitted to take more than one individual course per semester, and no more than two individual courses to fulfill the degree requirements.

Cooperative Education

Cooperative Education joins campus and career in an exciting and dynamic new way. Faculty and employers work together to arrange positions that combine usefulness to employers with education-in-action for students.

Organizations employing co-op students include businesses, industries and government or social service agencies. Whether the employer is engaged in highly competitive profit-making activity, or social service work in a non-profit agency, student employees make a significant contribution.

While on assignment, students work as regular employees and receive academic credit for learning derived from the work experience. When co-op students graduate, they have both a degree and substantial practical experience to offer a potential employer.

The Cooperative Education student may complete degree requirements within four years, or extend the program of work and study.

Work terms can begin in the sophomore, junior or senior year. However, a cooperative student is not restricted to any particular structured calendar. The program allows for flexibility to accommodate the needs of student and employer.

This dynamic involvement of student, University, and employer provides special benefits to all participants. *Work, learn and grow together* is the philosophy of Cooperative Education at Sacred Heart University.

Basic Studies Program

The year long Basic Studies Program at Sacred Heart University provides the student with the academic and personal support necessary to ensure success at college.

The program includes the following components:

- A. Placement testing
- B. A pre-registration interview and a summer college orientation
- C. A six credit freshman course in reading, writing and study skills
- D. A personal advisor to provide academic counseling on a weekly basis
- E. Individual and small group tutoring at the Workshop Skills Center in reading, writing and study skills

Division of Continuing Education

All part-time day and evening students are counseled under the direction of Continuing Education. The Department of Continuing Education is committed to the development of programs and educational options to meet the needs of the adult student. It is responsible for the evening school, summer sessions and non-credit programs, and special courses for business and industry.

In its involvement with the adult student who is beginning or resuming a college program, the University offers non-traditional, time-shortened options. The Life-Work Experience program grants credit for prior experience through a portfolio process, and the College Level Examination Program awards credit through examination.

University Fees**

Application Fee*	20.00
Tuition (per semester)	
Full-time students (12-17 credits)	1700.00
Part-time students	
Day Division—per credit hour	103.00
Evening and Saturday	
1 to 11 credits—per credit hour	101.00
MBA students—per credit hour	118.00
MARS students—per credit hour	98.00
MAT students—per credit hour	98.00
MAOR students—per credit hour	118.00
Nursing students—per credit hour	
(B.S. degree)	103.00
(A.A. degree)	88.00
Student Activity Fee*—full-time students (per semester)	25.00
Registration Fee*	10.00
Late Registration Fee	15.00
(In addition to the regular Registration Fee)	
Change of Registration Fee—per course	10.00
17/62 Registration Fee (for six credits only)	20.00
One Morning Only—per credit hour	103.00
Laboratory Fees* (per semester)	
Student Teaching Fee*	100.00
Graduation Fee	35.00
Audits (per course—for any number of credits)	175.00
Transcript Fee	2.00

*Non-refundable (see individual course descriptions)

**The schedule of fees is subject to change by action of the Board of Trustees without prior notice.

Acceptance Fee

Upon notification of acceptance, full-time candidates are required to forward a refundable reservation deposit of \$50. This fee will be refunded until May 1, upon written notification to the Admissions Office. This deposit is credited toward full or part-time payment of the first regular academic semester tuition following the date of acceptance.

Payment of Tuition and Fees

University charges must be paid on or before registration for each semester or session unless prior arrangements have been made under a deferred payment plan. Regulations covering deferred payment plans are available from the Business Office.

Tuition Refunds

Withdrawal from the University within four weeks from the commencement of a semester entitles the candidate to a proportional refund of tuition. Refunds are granted only if the candidate complies with the withdrawal procedure as prescribed by the Office of the Registrar.

Fees are not refundable and the schedule of tuition refunds is as follows:

Before start of class	100%	3rd week	40%
1st week	80%	4th week	20%
2nd week	60%	5th week	0%

Proportional refunds of tuition monies are also in effect for those courses which do not meet on a full semester basis.

Financial Aid

The University maintains a strong commitment to provide higher education to as many students as possible by making scholarships, loans and employment available.

Financial Aid programs are based on the student's academic potential, character and citizenship, and demonstrated financial need. Since its founding over 71 percent of the University's students have availed themselves of financial aid. The procedure for applying for financial aid is as follows:

1. Admission to the University
2. Completion of Forms

Any student who wishes to apply for Financial Aid is to complete a Financial Aid Form (FAF). The FAF is to be mailed to Princeton, New Jersey with a small fee.

3. Approval of Aid

You will receive notification from Princeton, New Jersey that they have received your FAF. The University will receive a copy of your FAF about eight to ten weeks after you file. If you have applied for the Pell Grant you will receive a copy of your Student Aid Report in the mail within the same eight to ten week period.

You will then receive notification from Sacred Heart University that your FAF is on file in the Financial Aid Office. Call 371-7980 to make an appointment with the Director or Assistant Director of Financial Aid.

State Student Aid

Student aid is available for Connecticut residents attending independent colleges or universities in Connecticut. Sacred Heart University shares in these funds, which are distributed through the State Commission for Higher Education.

Students who wish to apply for these funds should contact the Director of Financial Aid for further information.

Financial Aid and Private Income

The University Financial Aid Program is based on the assumption that candidates and their families will provide as much assistance as they can from their private income and assets. The Director of Financial Aid follows, in his calculations, the procedures and practices developed by the College Scholarship Services.

For additional information on financial aid, contact the Director of Financial Aid.

College Work Study Program

In addition to grants and loans, employment is available to students as part of the Financial Aid Program. Employment within the University is offered under the terms of the College Work Study Program. Campus jobs provide the opportunity to earn wages that are based on an hourly rate and paid directly to the student.

Area Part-Time Employment

There are numerous opportunities for part-time employment in the Bridgeport area and in nearby communities. The Office of Career Planning and Placement serves as a liaison between students and outside employers.

Family Allowance

The University Board of Trustees has adopted the following policy: When two or more dependent children receiving their support from the same parent are in full-time attendance at the University at the same time (or attending part-time earning at least 6 credits), each will receive a 15 percent reduction in the cost of tuition. Applications for such an allowance must be submitted to the Director of Financial Aid by August 1.

Deferred Payments

Candidates who prefer to pay their educational costs in monthly payments may avail themselves of the services of the EFI Fund Management of Chicago, Illinois; Academic Management Services, Inc., Pawtucket, Rhode Island; or Tuition Plan, Inc. Such plans should be made with the Business Office as early as possible and are subject to the credit policy established by the University.

Presidential Scholarships

Presidential Scholarships are awarded on the basis of academic promise and financial need by the President and the Scholarship Committee in varying amounts to incoming Connecticut freshmen and transferring upperclass students. A limited number of these awards have been reserved for highly recommended transfer students from Housatonic Community College and Norwalk Community College. These scholarships are made possible by the generous donations of alumni, parents, friends and local corporations and businesses.

Connecticut Guaranteed Student Loan Program

The Connecticut Student Loan Foundation was created as a non-profit state-supported corporation by the 1965 General Assembly to provide guaranteed loans in amounts up to \$2500 per academic year.

The actual loans are made through authorized lenders such as Commercial Banks, Mutual Savings Banks, Credit Unions and Savings and Loan Associations.

Application forms may be obtained from the Director of Financial Aid, from any participating institutions or directly from the Connecticut Student Loan Foundation, 54 Pratt Street, Hartford, Connecticut. Applications should be filed as early as possible in order to qualify for funds in this program.

National Direct Student Loan Programs

The University administers loans to candidates from funds made available under the National Defense Education Act of 1958. This program is designed to aid qualified students in need of financial assistance who otherwise could not obtain a college education. Primary consideration is given to students who may have the greatest need. These loans are obtained directly from the University. Interest and repayments may extend as long as ten years.

Supplementary Educational Opportunity Grants

The Federal Government has instituted a program providing federal grants to students with exceptional financial need that do not require repayment.

Applications must be submitted to the Director of Financial Aid by June 1. A Parent's Confidential Statement is required, and this form should be submitted to the College Scholarship Service, Box 176, Princeton, New Jersey by March 1.

Endowed Scholarships

The Mechanics and Farmers Savings Bank Scholarship was established to celebrate the Bank's one hundred years existence as a mutual savings bank. The income from this endowed fund will be used to aid a deserving student or students residing in a town situated within the bank's deposit area.

The James Joy Scholarship Fund was established through the will of James Joy with income of the invested principal providing funds for a deserving student. The recipient is selected by the President.

Dr. Daniel T. Banks Scholarship Fund. Donated by Dr. Daniel T. Banks, a prominent Bridgeport physician, to be awarded annually to a deserving student, preferably a student interested in pursuing a career in medicine.

The John Balamaci Memorial Fund Scholarship. The funds for this award were given by Mr. and Mrs. Thomas Balamaci in memory of their son, deceased alumnus John Balamaci, to aid a worthy student in meeting his educational expenses.

The Sandra Lynn Nobili Scholarship Fund. The funds for this award were given by the family and friends of alumna Lynn Nobili, to be awarded annually to a deserving Catholic student entering senior year and planning a career in elementary education.

Academic Regulations

Calendar

The academic year consists of two 15 week semesters. The Continuing Education school year calendar runs concurrently. In addition there are 3 summer sessions, day and evening. The University uses the semester credit hours system of awarding credits. A semester credit is given for satisfactory work in one period of class per week for a semester. For a 3 credit semester lecture course, 150 minutes per week of instruction is provided. For a laboratory course, a longer period of laboratory work is required for a semester credit.

Summer School Program

The University maintains a complete undergraduate summer school program. The program consists of an intensive offering in May and two five-week semesters during June, July and August. Students from other colleges and universities are invited to attend summer school to augment their educational programs. A brochure is published in April to outline summer school offerings. The Office of Continuing Education will be able to supply additional information and assistance concerning all policies and procedures regarding summer school.

Course Withdrawal

If withdrawal from a class or school becomes necessary, report to the Office of Continuing Education Service (part-time students) or the Counseling Office (full-time students). Official withdrawal is necessary to assure the proper entry on your transcript. Course withdrawals are permitted within the first five weeks of a semester without penalty (W grade). After that, withdrawal without penalty (W grade) can be given by the instructors with the approval of the Associate Dean or Director of the Graduate Program. A student's failure to properly withdraw will result in the issuance of a withdrawal failure (WF grade). Phone withdrawals are not normally accepted.

Class Attendance

Regular class attendance is the responsibility of each student. Instructors are permitted to include a portion of the final grade for attendance. All work missed by absences from a class must be completed by the students. Excessive absence could result in failure of the course.

Academic Honesty

The University places special emphasis on academic honesty. Plagiarism, theft of library books or other University equipment, and all forms of academic dishonesty are subject to appropriate disciplinary action. Clear cases of academic dishonesty in any course will result in an F grade for that course.

Student Standing

Normal progress of the completion of a degree is required to continue attendance. A student is making normal progress if he completes 24 credits per year (full-time study) with a grade point average as follows:

Freshman—First Semester	(0-15 credits)	1.5—minimum GP average
Second Semester	(16-30 credits)	1.6—minimum GP average
Sophomore—First Semester	(31-45 credits)	1.6—minimum GP average
Second Semester	(46-60 credits)	1.7—minimum GP average
Junior—First Semester	(61-75 credits)	1.8—minimum GP average
Second Semester	(76-90 credits)	1.9—minimum GP average
Senior	(over 90 credits)	2.0—minimum GP average

Students whose grade point average falls below this level and who do not improve in subsequent semesters may be terminated from the University.

Waiver Policy

Each student is recognized as an individual. On occasion it become necessary that degree requirements or other considerations involving University policies and regulations be modified. A student wishing a modification in academic requirements should obtain the application for an academic waiver from the Office of Academic Vice President, complete it and return it to his office. Applications should be submitted at least one semester prior to the completion of the degree.

Types of Waivers

- Proficiency:** The University core provides for proficiency waivers in the following areas: English composition, speech, mathematics, and modern foreign language. The University officials to be contacted respectively are Director of Freshman English, Department of English; Chairman, Department of Mathematics; Chairman, Department of Modern Foreign Languages. Proficiency waivers exempt the student from taking the course(s). No credits are awarded for the waived courses. Students who are proficient in one of the above listed should consider advanced standing through CLEP or LWX as a method of earning credit.
- Physical Handicaps:** Students who have a physical handicap which puts undue hardship on the completion of a specific degree requirement can appeal to the Academic Vice President and Provost for a waiver of that requirement.
- Departmental Major Requirements:** Students who desire substitutions for required major courses may appeal to the chairman of their major department. The total number of credits required cannot be less than the minimum requirement established in the degree requirements (Baccalaureate—30 credits, Associate—15 credits.)
- One-Half of Major Courses in Residence:** On occasion a transfer student has completed a majority of courses offered by the major department. The department chairperson, with the approval of the department, can recommend to their Division Dean and to the Academic Vice President and Provost the reduction of one-half of the major courses in residence.
- Others:** On occasion, a required course is cancelled by the University; therefore, the Division Dean, after consultation with the department chairperson of the major department involved, may substitute a comparable requirement, preferably in the same or similar discipline.

System of Grades

The Undergraduate system of grades along with quality points issued for each grade is as follows: (the system of grades for graduate programs are listed in the appropriate graduate publication.)

Grade	Q/P/Credit	Grade Explanation
A	4.0	Superior Class Work
B +	3.5	Excellent Class Work
B	3.0	Very Good Class Work
C +	2.5	Good Class Work
C	2.0	Average Class Work
D + *	1.5	Less Than Average Class Work
D *	1.0	Minimum Class Work
F	0.0	Failure

* Not an acceptable level for Rhetoric or major course work.

W	0.0	Withdraw Passing
WF	0.0	Withdraw Failure or Unofficial Withdrawal
FI ¹	0.0	Failure Incomplete
I ¹	0.0	Incomplete (Temporary grade)
P ²	0.0	Pass

FI or I grades may be changed by completion of the course work deficiency no later than six weeks after the beginning of the following semester. Students with these grades should contact the professor to make arrangements for completing the class work.

Advisory grades are provided for guidance at mid-semester. Final grades are determined by the instructor at the close of each semester according to the syllabus provided for each course. No numeric equivalent is set by the University in determining a final grade.

Make-up examinations are sometimes given by the professors after the regular final exam period. For unusual circumstances, the period to remove an incomplete can be extended with the approval of the professor and Associate Dean or Director of the Graduate Program.

Academic Services

Registration

Students can register for courses each session either by mailing the appropriate registration form two weeks prior to the beginning of each session or by in-person registration held the week prior to the beginning of classes. The registration schedule, course offerings and forms for registration are available from the Office of the Registrar by calling 371-7890 or by stopping by the University between the hours of 8:30 a.m. to 8 p.m. Monday-Thursday; and 8:30 a.m. to 4 p.m. Fridays. Students interested in full-time study must see the Admissions Office prior to registration. For an appointment, call 371-7880. All charges and fees must be paid at the time of registration unless arrangements have been made with the Director of Financial Aid or Treasurer. Each student accepts the full responsibility for the courses selected. Academic counseling is provided to assist in the selection of courses.

Academic Appeals

Any student placed on Academic Probation or Dismissed can submit a request for change of status to the Academic Appeals Committee.

Students who have been dismissed in previous semesters must obtain permission from the Academic Appeals Committee before re-enrolling in the University. For more information, contact the Office of the Associate Dean.

Graduation

In order to receive a degree, a student must complete all requirements for that degree as listed in this catalog and in the official preregistration guide as distributed by the Office of the Registrar. All students eligible for a degree must apply for graduation candidacy with the Associate Dean or Director of the Graduate Program two semesters prior to graduation.

Academic Honors

Full-time students who earn a 3.4 or better are eligible for the Dean's List. Part-time students who complete 9 or more credits with a 3.4 or better; or 6 credits with a 3.75 or better are eligible for the Dean's List. Students who take less than 6 credits are not eligible for the Dean's List.

For Undergraduates Only

At graduation, students who complete their program of study with the following averages are eligible for the listed honors:

3.8 or better	Summa Cum Laude
3.6 to 3.79	Magna Cum Laude
3.5 to 3.59	Cum Laude

Program Changes

Students are permitted to change their course selection only within the first week of the semester. A nominal charge for changes is assessed. The procedure for program changes is available at the time of registration each term from the Registrar's Office. The procedure must be followed in order to ensure course registration and the proper issuance of refund as listed under the section on fees.

Veteran Counseling

(Veterans and Dependents of Veterans under Chapter 31, 32, 34, 35, Title 38 U.S.C.)

The Office of the Registrar is the source of counseling for those students receiving the benefits of legislation dealing with veterans education. All veterans applying to Sacred Heart University should notify the Registrar's Office so that additional forms may be completed and sent to the Veteran's Administration. However, veterans applying for educational benefits for the *first* time, in addition to the above, must present a notarized copy of their Form DD 214 to the Registrar's Office.

Each semester, at the time of registration, all veterans must complete and return an Enrollment Certification, Form 22-1999, to the Registrar's Office. These forms will be certified and sent to the Veteran's Administration. Please remember to check the Veteran's Benefits box on the Registration form.

In addition, each semester veterans will receive attendance sheets (required by the V.A.) to be completed and returned to the Registrar's Office by the designated dates. Failure to cooperate will result in discontinuance of benefits.

Transcripts

The official record of a student's performance at the University is contained in his/her transcript. Students needing official transcripts for transferring to another school, applying to a graduate school or applying for a job, may request that an official transcript be sent by writing to the Registrar's Office or by stopping by the office to complete a transcript request form. (A \$2.00 per transcript fee should accompany each request.) Transcripts will not be released without the written consent of the student. During the semester, transcript requests are usually processed in one week. At the end of the semester, please allow two to three weeks for processing a request.

Social Security and Student Visa Certification

The Registrar is the official officer to issue certification of attendance for all government and private programs.

Academic Counseling

All full-time students and part-time students are encouraged to meet periodically with an academic advisor. The advisory program allows for students to relate to a college professor in a relaxed, informative atmosphere that hopefully fosters a long lasting, and definitely creative, interpersonal relationship.

Two special programs are designed for special groups of full-time students. Those full-time students in need of remedial communication skills are assigned to the Basic Studies Program. For more details on the Basic Studies Program, refer to the section under Special Academic Programs. The Office of the Basic Studies Program is located in the South Wing of the Academic Center.

All full-time freshmen and transfer students not assigned to the Basic Studies Program are assigned to a Newcomers Program Advisor. The Newcomers Program individually acquaints each new student with the Sacred Heart University Community and dynamically introduces supportive services and developmental activities so vital to the student's full realization of the collegiate experience.

COUNSELING AND ACADEMIC ADVISEMENT FOR THE PART-TIME STUDENT

Academic Advisement

The part-time student will discover an extensive commitment to academic guidance at Sacred Heart University. The Department of Continuing Education maintains academic advisors to help plan curriculum and select courses relevant to the student's interest. Advisement will also interface with Life/Work Experience, CLEP and transfer programs in order to afford the student maximum understanding of their academic commitment. For convenience, part-time students will find counselors available Monday through Thursday evenings.

Counseling

The Department of Continuing Education also realizes that the part-time student needs to discuss problems of a more personal nature. As a result, the University has established an Office of Continuing Education Services to help the part-time student deal with the stresses of study and the responsibilities of home and career. This office is available in the evening for appointments.

Student Services

Newcomer Program

The Newcomer Series is designed to help you become acquainted with the Sacred Heart community so you can fully enjoy the University from the beginning stages of your collegiate experience. You will meet the staff of student personnel who are more than happy to talk about our athletic programs and campus ministry. You will find out about the student activities offered.

Everyone knows that there may be adjustment problems at first. That's why we're here!

When you enter the University, you will be assigned to a seminar group which will meet during the last week of August for registration and orientation. A faculty coordinator, along with student leaders, will be there while you fill out forms, take I.D. pictures, and receive the semester schedule. From there they will conduct a tour of the campus and answer all questions you may have.

You'll be talking to the Vice President and Dean of Students, Registrar, Career Counselor and faculty advisors who will aid in planning the academic portion of your education, while the Director of Student Activities, student organization leaders and students themselves will acquaint you with the social life at SHU.

Very likely you will also come to know the President, Academic Vice President, the various members of Administration, Campus Ministry and clerical staff because we take personal interest and great pride in our community.

Campus Ministry

We are a University in the spirit of renewal initiated by the Second Vatican Council and rooted in the local church of the Diocese of Bridgeport. A network of resources is available to us in providing the necessary pastoral care to our members.

Students of all faiths are welcome at Sacred Heart. The Campus Ministry reflects this ecumenical vision through its inter-faith representation. A priest of the Diocese, a representative from the Sisters of Notre Dame, a pastor from a local Baptist congregation and a rabbi from a local Jewish congregation are assigned as chaplains to assist the students in their search for understanding and commitment in our interdependent world.

The Campus Ministry must respond both on and off campus to the needs of a commuter student body, faculty, staff and administration. Daily Liturgies, visits to the sick, pastoral counseling, marriage preparations and retreats are some of the forms this response takes. A quiet place in Chapel, a cup of coffee in the office and an opportunity for friendship and prayer are all at the heart of our ministry to each other here.

While serving Sacred Heart, our Campus Ministry reaches out to the wider community. A Mass for the handicapped is offered every Sunday in the Chapel. Two neighborhood convalescent homes afford an opportunity for ministry to the aging. RENEW, a ministry for the divorced, separated and remarried, meets in the Chapel on the third Saturday of each month. The Thomas Merton House of Hospitality, OXFAM and other local and international agencies for the poor help the University to demonstrate its concern for the hungry and the oppressed of the world.

Career Planning and Placement

The Career Planning and Placement office, located in the Campus Center, provides a wide variety of services, techniques and guidance for full-time undergraduate students and alumni. Resources available for use include updated graduate catalogs, current annual reports and information covering a wide range of career areas, as well as surveys and job trend information. Applications for graduate exams may be obtained in the office.

An orientation program introduces freshmen and transfer students to the informational and placement services of the office. Interest testing, interpretation of skills assessment, values, motivation are included in the four year career planning program. Personal career counseling is on-going and helps students to make decisions about their future goals. Workshops given during the year provide experience in resume writing, interviewing techniques, and the job search.

Individual appointments are scheduled with graduating seniors to explore post graduate plans. Companies recruit on campus during the Fall and Spring. Personnel Day, which is held in October, provides seniors with the opportunity to discuss their career plans with representatives from numerous organizations in Fairfield County.

The Director meets personally with potential employers on a continuing basis to investigate employment information and to secure potential openings for our graduates.

Housing

The Counseling Center of the University maintains a file of available housing in the area. This reference service is available to students free of charge. For more information about this service, call 371-7747.

Health Services

The Health Center is located in the south wing next to the Student Pub. A registered nurse is on duty from 9:00 a.m. to 3:00 p.m. throughout the academic year.

The Health Center houses a three bed infirmary and provides first-aid and emergency health care services for students of the University on a day care basis. The Center also distributes articles and pamphlets on health problems of particular interest to students.

Student Rights and Responsibilities

The Dean of Students is the advocate for all student campus affairs and espouses the philosophy that Sacred Heart University exists to serve its students. If the occasion arises where students feel they are suffering from a disservice, the matter will be reviewed and if justified, corrected by due process through the office of the Dean of Students.

Student Activities

The people who are the University are committed to the vision of Sacred Heart as a learning center which meets the needs of the whole person. For this reason, the University places special emphasis on a diversified program of activities that reflects the curricular and extracurricular interests of the students. Simply stated, the aim of student activities is to foster a sense of pride and belonging and community.

Activities include:

- Accounting Club
- American Chemical Society (Student Chapter)
- American Institute of Biological Sciences (Student Chapter)
- Art Club
- Beta Delta Phi Sorority
- Basketball Trips
- Cheerleading
- Class Officers
- Continuing Education Evening Council
- COPUS (Coalition of Private University Students)
- Delta Epsilon Sigma (Honor Society)
- Drama Club
- Economics Club
- Gold Key
- Harvest Weekend
- Inter-Fraternity Sorority Council
- International Students Association
- Intramurals
- Italian Club
- Karate Club
- La Hispanidad
- Lambda Alpha Pi (Paralegal Association)
- Marketing Club
- Math Club
- Nu Epsilon Omega Sorority
- Obelisk (Newspaper)
- Open Recreation
- Phi Alpha Theta (National History Honor Society)
- Philosophy Club
- Pi Sigma Phi Sorority
- Polish Club
- Prologue (Yearbook)

REPHAS

Rho Sigma Chi Society
 The Rycenga Society
 Senior Week
 Sigma Psi Delta Fraternity
 Sigma Tau Omega Fraternity
 Sociology and Social Work Club
 Spring Fest Weekend
 Student Government
 Student Pub
 Ujamma Black Heritage Club
 University Chorale
 University Community Chamber Orchestra
 WSHU-FM (Radio)

Social Service Activities

Another aspect of student life which fosters a positive sense of social consciousness is the varied program of social service activities. The University is, by definition, community oriented, and the strong social service program provides the student with the means to become committed to, and directly involved in community action. Some recent activities include:

Appalachia Food and Clothing Drive
 Blood Bank
 Canned Food Drive
 Heart Fund Drive
 Leukemia Fund Drive
 Muscular Dystrophy Fund Drive
 United Way Drive
 Volleyball Marathon for Leukemia Society

Cultural Activities

Sacred Heart University is committed to the Arts and sponsors a wide variety of cultural activities for both the University and the southwestern Connecticut communities. Situated off the Merritt Parkway between Bridgeport and Fairfield, only 20 minutes from the Yale University campus and one hour from New York City, Sacred Heart is centrally located in an area rich with artists, writers and musicians.

University Exhibits, Lectures, Concerts and Performances

As part of its commitment to the Arts, Sacred Heart sponsors exhibits, lectures, concerts, and theater performances that feature professionals as well as students. Shows include the Illustrators Invitational, the High School Art Teachers Show, Senior Students Show and the Fairfield County Illustrators Show. Major exhibitions have included Reginald Marsh, Benton Spruance, Moby Dick, Fine Press Books, the Art and Poetry of the Yeats family and Two Hundred Years of Connecticut Printmakers.

George Bush, W. H. Auden, Robert Frost, Gerald Ford, Buckminster Fuller, Isaac Singer, Dr. Mary Leaky, Rollo May, and Kurt Waldheim are among those who have appeared for the University community. Notable campus performances have featured the Waverly Consort, Warsaw Symphony, Igor Kipnis, the Duquesne University Tamburitians, Israeli Yuval Trio, P. D. Q. Bach and the Abbey Theater of Dublin.

Center for Applied Ethics

The SHU Center for Applied Ethics was designed as a catalyst to coordinate convocations, lectures, conferences and workshops to investigate important ethical issues; to work with the various departments within the University in suggesting ethics courses and to expand our library collection in the area of professional ethics.

Center for Ethnic Studies

Serving the cultural and educational interests of the various ethnic groups in our commuting areas, the Center for Ethnic Studies offers courses and lectures in the history, literature and language of different nations. In addition to academic programs and study-trips abroad, the Center sponsors special events featuring ethnic art, plays, music and dance. Refer to the departments of History and Modern Foreign Languages for descriptions of academic courses.

Center for Policy Issues

The Center for Policy Issues was established in 1980 with a special mandate to serve the people of southwestern Connecticut.

The Center fulfills this mandate through conferences, forums, symposiums and other activities focusing on public issues of regional interest with primary legislative implications. Major outside associations and groups, along with University departments co-sponsor the activities.

SHU Strings Music Center

The SHU-Strings Music Center offers private and class instruction in guitar, electric bass, piano, violin, viola, cello, contrabass, recorder and voice. The faculty of outstanding professional artists and teachers includes the University resident chamber ensemble, *The Connecticut String Quartet and Friends*.

SHU Community Chamber Orchestra

The University is specially proud to be the base of operations for the Community Chamber Orchestra. This talented ensemble, composed of students, faculty and experienced area musicians is primarily concerned with the authentic interpretation of Baroque music, although emphasis is also placed on the worlds of modern American and European composers.

Institute for Religion and Society

The aim of the Institute for Religion and Society as an outreach arm of the Religious Studies Department is to develop educational activities dealing with the impact of religious values on social problems. Basic activities of the Institute include a summer seminar on the family, an annual lecture series on justice-related issues, along with a variety of special lectures and workshops devoted to such topics as women and society, and business ethics.

Athletics

Since its establishment, the University has worked to develop an athletic program to reflect Sacred Heart's uniqueness and to provide for as much student participation as possible. The University has expanded its major sports program and is now recognized in the Eastern sports divisions as well as on the National level.

The University is a member of the NCAA, ECAC and the NECAC and offers intercollegiate sports for both men and women. The men's intercollegiate program consists of basketball, baseball, soccer, golf, cross country and volleyball. Women have the opportunity to compete in intercollegiate basketball, volleyball, softball and cross country.

The 1976 baseball team won the NCAA Northeast Regional Championship and participated in the NCAA College World Series. The 1976-1977 basketball team ranked fourth in the nation and participated in the National Finals. The 1980 women's softball team ranked first in New England and participated in the College World Series. The 1980-1981 men's basketball team advanced to the New England Regional Finals. The 1981 women's softball team participated in the EAIAW Regional Tournament. The 1982 women's softball team ended with a 29-7 record and third place in the NCAA Division II National Softball Championship. The 1982 men's basketball team won the New England championship and was rated fifth in the nation in the final NCAA poll.

Intramurals

The University encourages student participation in a variety of intramural activities. The intramural program has been expanded to include the following:

Basketball
Touch Football
Volleyball
Ping Pong
Badminton

Softball
Weight Lifting
Free Play
Jogging
Boxing

Division of Business Administration

Charles W. Harper, Dean

The Division of Business Administration prepares its students for creative roles in life while at the same time providing skills that can be applied to a career choice. It is hoped that the student will take advantage of the unique opportunity that the University offers and gain an understanding of the complex, evolving social systems in which business functions. By offering a blend of liberal arts and business courses, the department will prepare students for a career in business, industry or government. It also forms a basis for advanced study in the Master of Business Administration program.

Departments and Programs

Accounting

Arthur J. Brissette, Chairperson

Economics/Finance

Dr. Ramzi N. Frangul, Chairperson

Management

George F.R. Miller, Chairperson

Secretarial Science

Camille P. Reale, Chairperson

Legal Assistant

Muriel Small, Program Director

Master of Business Administration

Dr. Roberta J. Cable, Program Director

*Dr. Robert Neuhaus, Health Care Administration
Program Director*

DEPARTMENT OF ACCOUNTING

The effective use of financial information is a critical need for decision makers in business, industry, banking, government, education, law and many related fields. Today, professional opportunities in those fields continue to expand in all sectors of our economy. In addition, professional personnel with strong backgrounds in accounting and finance are in great demand for such positions as financial analysts, estate planners, investment counselors, market researchers, auditors, comptrollers and business managers.

MAJOR IN ACCOUNTING

The accounting curriculum is designed to meet both the short and long term needs of a student who wishes to enter the accounting profession. A foundation for professional growth in accounting is equivalent to preparation for graduate study, therefore, the accounting program will also meet the needs of those who plan to continue their education on the graduate level.

Required Courses:

Ac	101-102	Principles of Accounting I, II
Ac	201-202	Intermediate Accounting I, II
Ac	301-302	Advanced Accounting I, II
Ac	313	Cost Accounting
Ac	314	Managerial Accounting
Ac	321-322	Auditing I, II
Ac	383-384	Federal Taxes I, II
Bu	231-232	Business Law I, II
Bu	241	Business Statistics
Cs	009	An Introduction to Data Processing
Ec	201-202	Principles of Economics I, II
Fn	314	Financial Analysis

Recommended Electives:

Bu	201	Organizational Management
Mk	261	Principles of Marketing
Additional economics courses		

Academic Requirements for the AICPA Examination in the State of Connecticut

The minimum academic requirements for those seeking to sit for the AICPA examination in the State of Connecticut are:

1. A bachelor degree from a regionally accredited college;
2. At least 46 semester hours from such an accredited college in the study of accounting and related subjects, including but not limited to, business law, economics, and finance; of which twenty-four semester hours shall be in the study of accounting.

In practical terms, the credits need to be taken as follows:

1. At least 24 semester hours in accounting.
2. At least 3 semester hours but no more than 6 semester hours in business law, economics and finance.
3. A maximum of 13 semester hours in business electives.

DEPARTMENT OF ECONOMICS/FINANCE

Our program in economics is intended for highly motivated students who are interested in seeking a career in business, in government and in teaching. The program is also designed to satisfy the needs of those students who elect to participate in double majors or major/minor combinations with other fields.

Required Courses:

Ec	201-202	Principles of Economics I, II
Ec	212	Economic Statistics or
Bu	241	Business Statistics
Ec	301	Intermediate Macroeconomic Analysis
Ec	302	Money and Banking
Ec	313	Managerial Economics or
Ec	221	Intermediate Microeconomic Analysis
Ec	341	History of Economic Thought

Twelve credits from other economic courses

Twelve credits from related fields.

MAJOR IN FINANCE

The finance curriculum is designed to develop your knowledge and skills for professional positions in financial institutions, corporations, governmental and non-profit institutions. These include: commercial and savings banks, brokerage firms, investment banking, insurance companies and the finance departments of corporations and governments.

Required Courses:

- Ac 101-102 Principles of Accounting I, II
- Bu 201 Organizational Management
- Bu 202 Organizational Behavior
- Bu 221 Business Communication
- Bu 231 Business Law I
- Bu 241 Business Statistics
- Bu 242 Production
- Bu 257 Ethics
- Bu 301 Business Policy
- Cs 009 Introduction to Data Processing
- Mk 261 Marketing
- Fn 215 Financial Management
- Fn 251 Corporate Finance
- Ec 302 Money and Banking
- Fn 315 Investments
- Fn 316 International Finance

Plus two of the following:

- Fn 241 Financial Markets: Structure and Performance
- Fn 271 Risk and Insurance
- Fn 314 Financial Analysis
- Fn 317 Portfolio Management
- Fn 318 Current Problems in Finance

DEPARTMENT OF MANAGEMENT

The curriculum in Management provides a solid foundation in both quantitative techniques and in management theory. Taking the behavioral science-human relations point of view, the program recognizes that sound practice requires sound theory and the case method is used to illustrate theory in practice.

An elective option is available to concentrate in the fields of Human Resource Management, Marketing Management or General Management. A minimum of six credits is necessary to fulfill the requirements of a concentration in addition to the business core curriculum.

Required Courses:

- Ac 101-102 Principles of Accounting I, II
- Ac 212 Introduction to Management Accounting
- Bu 103* Business: Its Nature and Environment
- Bu 201 Organizational Management
- Bu 202 Organizational Behavior
- Bu 221 Business Communications
- Bu 231 Business Law I
- Bu 241 Business Statistics
- Bu 257 Business Ethics
- Bu 278 Principles of International Business

Bu 301	Business Policy
Cs 009	Introduction to Data Processing
Ec 201-202	Economics I, II
Ec 302	Money & Banking
Fn 215	Financial Management plus one Finance elective
Mk 261	Principles of Marketing
Pd 275	Principles of Production & Inventory Control

*May be waived under certain circumstances

DEPARTMENT OF PROFESSIONAL SECRETARIAL SCIENCE

This Associate degree program is designed to meet the needs of both those students who plan to terminate their education after two years and enter the secretarial managerial field as well as those who plan to continue their education toward a Bachelor's degree.

The two-year program equips students with the professional skills that today's business world requires at the executive secretarial/administrative level. The development of superior secretarial techniques, as well as a broad liberal arts background, provides the ability and confidence needed to meet the demands of the complex business community.

Prior to registration, placement tests will be given to those students who have had previous instruction in typing and shorthand. Students showing proficiency in these areas can substitute courses in other academic areas.

Required Courses

Executive/Legal/Medical Option

Bu 021	Business English	
Bu 103	Business: Its Nature and Environment	
Se 031	Legal Terminology]
Se 081	Medical Terminology	
Se 041-042-		
043	Typing I, II, III	
Se 051	Shorthand]
Se 005	Speedwriting	
Se 052	Dictation and Transcription	
Se 131-132	Legal Office Procedures I, II or]
Se 151-152	Executive Office Procedures I, II or	
Se 181-182	Medical Office Procedures I, II	
Se 161	Secretarial Procedures I, III	
Se 163	Field Office Experience	
Se 171	Word Processing and Office Machines I	
En 011	Freshman Rhetoric: Shorter Forms	
Ca 221	Business Communication for Secretarial Science Majors	

Four Liberal Arts electives

One Business elective

Word Processing Option

Bu 021	Business English	
Bu 103	Business: Its Nature and Environment	
Se 031	Legal Terminology - Optional	
Se 041-042-		
043	Typing I, II, III	
Se 051	Shorthand]
Se 005	Speedwriting	
Se	Elective	

Se 052	Dictation and Transcription <i>or</i>]
Se	Elective
Se 081	Medical Terminology - Optional
Se 161	Office Procedures
Se 163	Field Office Experience
Se 171-172	Word Processing and Office Machines I, II
Ca 220	Business Communications for Secretarial Science Majors
En 011	Freshman Rhetoric: Shorter Forms

Four Liberal Arts electives

Two Business electives

A grade of C or better is required in Bu 021, En 011 and all secretarial and business courses. A 2.0 grade point average is also required for the degree.

BUSINESS EDUCATION PROGRAM*

The major in Business Education is available in a Secretarial or Business concentration.

Secretarial Concentration

The Secretarial Concentration prepares the student for a future in teaching business education, a position as an executive secretary or administrative assistant or an entry level management position.

As a prospective business education teacher with the Secretarial Concentration, the candidate will be provided with the necessary preparation to teach all business courses on the secondary level such as typing, shorthand, secretarial practice and word processing, as well as bookkeeping, business law, business economics, business organization and management. Concentrated training in professional courses such as tests and measurements and learning theories is also included.

The teaching certification program in Business Education is available in Secretarial or Business concentration. For requirements in the professional sequence refer to the listing in the Department of Education.

Required Courses:

Ac 101-102	Principles of Accounting I, II
Ec 201-202	Principles of Economics I, II
Se 041-042-	
043	Typing I, II, III
Se 051	Elementary Shorthand <i>or</i>]
Se 005	Speedwriting I
Se 052	Dictation and Transcription
Se 151-152	Executive Office Procedures I, II
Se 161	Office Procedures
Se 171	Word Processing I
Bu 021	Business English
Bu 103	Business: Its Nature and Environment
Bu 201	Organizational Management
Bu 231	Business Law I

Secretarial concentration students without previous instruction in shorthand and typing must take Typing I (Se 041) and Shorthand I (Se 051). Those with experience in typing and shorthand instruction on the high school level may be exempt from Se 041, Se 042, Se 051 and/or Se 052 as a result of a proficiency exam. Students who are granted exemptions are recommended to substitute courses from the Department of Management and Marketing.

Business Concentration

The Business Concentration prepares the student for employment in teaching, in a large corporation or in an entry level management position.

*This option is not available to students entering September 1984 or later.

As a prospective business teacher, the student will be prepared to teach accounting, recordkeeping, business law, economics, business English, typing and word processing. Concentrated training will be given in such areas as methodology, principles, developmental and adolescent psychology.

Required Courses:

Ac 101-102	Principles of Accounting I, II
Ac 201-202	Intermediate Accounting I, II
Ac 383	Federal Taxes I
Bu 021	Business English
Bu 201	Organizational Management
Bu 231-232	Business Law I, II
Ec 201-202	Principles of Economics I, II
Se 041-042	Typing I, II
Se 171	Word Processing I

One Business elective from the list of recommended courses

Recommended Courses:

Ac 384	Federal Taxes II
Bu 221	Business Communication
Bu 242	Analytical Techniques of Decision Making
Bu 301	Business Policy
Fn 215	Financial Management
Fn 314	Financial Analysis
Hr 207	Management of Human Resources
Mk 261	Principles of Marketing
Mk 262	Principles of Advertising
Se 172	Word Processing II

Recommended Electives:

So 101	Principles of Sociology
Ps 121	Applied Psychology
Ps 215	Social Psychology
Ps 331	Psychological Tests and Measurements

Business concentration students without previous instruction in typing must take Typing I (Se 041). Students who have successfully completed one year of typing in high school may take Typing II (Se 042). Students who are granted exemptions from typing courses are recommended to substitute a course from the management department.

LEGAL ADMINISTRATION PROGRAM

This Baccalaureate degree program is designed to train students to become legal administrators competent to handle a wide range of specialized responsibilities in the legal profession. The curriculum reinforces the contemporary approach to the practice of law which assigns managerial functions to a new category of paraprofessionals.

Required Courses:

Ac 101-102	Principles of Accounting I, II
Bu 201	Organizational Management
Bu 202	Organizational Behavior
Bu 241	Business Statistics
Cs 009	Introduction to Data Processing
Ec 201-202	Principles of Economics I, II
Lw 101	Criminal Law and Torts
Lw 102	Contracts and Uniform Commercial Code
Lw 121-122	Legal Research I, II
Lw 161	Legal Office Procedures

Lw 201	Business Organization and Domestic Relations
Lw 202	Property and Conveyancing
Lw 203	Estates, Probate and Taxation
Lw 399	Independent Law Study or

Optional law courses or any combination to total nine credits.

LEGAL ASSISTANT PROGRAM

This two-year program leading to an Associate of Science degree has been granted approval by the American Bar Association.

The four-semester sequence is structured to provide the legal training and general academic background necessary to function effectively as a legal assistant. Entrance to the program is highly selective. The Admissions Committee seeks students who show evidence of high academic achievement.

This course of study may also be incorporated into a baccalaureate degree program leading to a Bachelor of Science degree in Business Administration with a concentration in Legal Administration.

Required Courses:

Ac 101-102	Principles of Accounting I, II
Bu 103	Business: Its Nature and Environment
Ca 021	Effective Communication
En 011	Freshman Rhetoric: Shorter Forms
En 012	Freshman Rhetoric: Longer Forms
Lw 101	Criminal Law and Torts
Lw 102	Contracts and Uniform Commercial Code
Lw 121-122	Legal Research I, II
Lw 161	Legal Office Procedures
Lw 201	Business Organization and Domestic Relations
Lw 202	Property and Conveyancing
Lw 203	Estate, Probate and Taxation
Ps 121	Applied Psychology

Five liberal arts electives

COURSE DESCRIPTIONS

Accounting Courses

Ac 101-102 Principles of Accounting I, II 6 Crs.

Required as the beginning course for all accounting majors. Ac 101 covers financial accounting from transactions analysis through accounting for partnerships. Ac 102 covers stockholders equity and managerial accounting from break-even analysis to standard costs and various forms of statement analysis and forecasting. Both courses provide intense, rigorous preparation for subsequent course work. Prerequisites: 27 credit hours, OPA of 2.0 and Mt 008.

*Ac 103-104 Accounting for Managers I, II 6 Crs.

Required for all business majors except those who have taken Ac 101-102. Ac 103 covers financial accounting; Ac 104 covers managerial accounting. Differs from Ac 101-102 primarily in its emphasis on the practical uses of accounting data rather than on its development. It is designed to enable the non-accountant to read financial statements intelligently and to make use of the information contained therein. Prerequisite: Mt 001.

*Not available for students entering September 1984 or later.

Ac 183 Introduction to Federal Taxation 3 Crs.

Designed for the non-accountant. Covers most taxpayer situations for the individual, the operator of a small business and for the corporation. Other topics are family tax planning, employee benefit plans and retirement income, federal estate and gift planning. Not open to accounting majors.

Ac 201-202 Intermediate Accounting I, II 6 Crs.

Further development of accounting concepts, placing more emphasis on the theoretical aspects involved. Primarily intended for the accounting major, this is also a highly useful course for business administration majors. Note: credit for Ac 201 can be gained without taking Ac 202. Prerequisite: Ac 101 and Ac 102.

Ac 212 Introduction to Management Accounting 3 Crs.

Provides a deeper investigation of managerial accounting topics raised in Ac 104. Covers relevant costs, budgeting, responsibility accounting, capital budgeting, manufacturing cost accounting, corporate financial reports and the effect of inflation on them.

COURSE DESCRIPTIONS ARE A GENERAL SUMMARY AND ARE SUBJECT TO MODIFICATIONS AND CHANGES.

Ac 301-302 Advanced Accounting I, II 6 Crs.

This course covers partnerships, installment sales and contracts, estates and trusts, governmental and branch accounting. The second semester will cover business combinations, consolidation and consolidated financial statements on both dates of purchase and pooling of interest bases. Prerequisite: Grades of C or better in Ac 202.

Ac 313 Cost Accounting 3 Crs.

Covers methods of accounting for and reporting the costs of materials, labor, and overhead in job and process cost systems. Includes intensive work in joint and by-product costing as well as on standard costs and variance analysis. Prerequisite: Ac 102.

Ac 314 Managerial Accounting 3 Crs.

Covers analysis of market costs and cost-volume-profit situations, studies variable costing and methods of reporting, use of cost information in pricing decisions, capital expenditure analysis, budgeting and cash management, transfer-pricing, and related topics. Prerequisite: Ac 313.

Ac 321-322 Auditing I, II 6 Crs.

A study of the principles of audit practice and the procedures used by independent public accountants in examining accounting records and statements. Emphasizes accepted accounting practices and professional ethics in connection with rendering a professional opinion on financial conditions or operating results. Also, advanced training in auditing, utilizing case studies, publications of the American Institute of Certified Public Accountants, preparation of audit reports and other audit materials. Prerequisite: Ac 202 and Bu 241. Cs 009 or Cs 010 is recommended.

Ac 383-384 Federal Taxes I, II 6 Crs.

A survey of income tax accounting as it applies to the individual. This course covers the more important concepts involved in preparing federal income tax returns, a survey of gift and estate taxes, reorganizations and other topics. Prerequisite: Ac 102 and Senior standing or permission of the instructor.

Business Courses

Bu 021 Business English 3 Crs.

This course is designed as a refresher course for basic English principles. It includes the study of grammar, word usage, punctuation, capitalization, and vocabulary building.

In addition, grammar principles that are most often misunderstood or forgotten receive special attention. Students also spend time discussing those language-usage principles that are in a state of transition.

Bu 021 emphasizes that communication skills are utilized by all office workers in all facets of business. Students in the business administration areas are allowed to enroll in Business English.

Bu 103 Business: Its Nature and Environment 3 Crs.

The basic introductory course represents a concern for the traditional facets of business as well as for the social and physical climate in which business operates. The management point of view is emphasized but the rights of the individual as employee, citizen and

consumer are also discussed. The purpose of this course is to give a clear overview of the area of activity known as business. Not required of those students who provide substantiation of acceptable practical business experience.

Bu 128 The History of American Business Enterprise 3 Crs.

An examination of the growth and development of business in America from early colonial times to the present. Topics receiving special consideration include the role of the entrepreneur, the evolution of business specialization, the rise of the corporate form and of "big" business, notable innovations in management marketing, and the interplay of business enterprise and other aspects of American society. May be taken for Area I History credit.

Bu 201 Organization Management 3 Crs.

An interdisciplinary study of managerial decision making utilizing behavioral and quantitative approaches. Included among the topics are decision making per se, motivation and behavior, leadership, group behavior, organizational change, planning, control and allocation of resources. Lectures and case studies. Prerequisite: Bu 103 or permission of department.

Bu 202 Organizational Behavior 3 Crs.

Examination of the research underlying current theories of organization. Individual, group, intergroup and other human behavior and development and the application of social science research to administration. Prerequisite: Bu 201.

Bu 210 Office Management for the Administrative Assistant 3 Crs.

This course will cover fundamental supervisory practices and will analyze the most important skills required in performing the supervisory/management function. The basic considerations of leadership, motivation, communications, and planning and organizing administrative office operations will be explored. The managerial process will be examined including personnel practices, budget planning and control, and information and records management.

Bu 221/Ca 221 Business Communications 3 Crs.

Project oriented course dealing with individual student efforts in all facets of verbal, written and graphic communication. Assignments required in areas such as business correspondence, executive summary, verbal presentations and charts. Work assignments supplemented with audio aids and lectures dealing with grammar and vocabulary development. Prerequisite: Grades of C or better in En 010, En 011 and Ca 021.

Bu 231-232 Business Law I, II 6 Crs.

A general survey of law, including the legal system, courts and court procedures, the law of contract, agency, partnership, corporation, sales and employment.

Bu 241 Business Statistics 3 Crs.

Introductory course in statistics for students in business administration. Problem oriented course discussing statistics as it is used, frequency distribution, probability, sampling, hypothesis testing, correlation analysis, linear regression analysis and graphic presentation of statistical material. Prerequisite: Grades of C or better in Mt 008 and Mt 014.

Bu 242 Analytical Techniques for Decision Making**3 Crs.**

Survey of analytical techniques used in the solution of management problems. Topics include breakeven analysis, probability, decision theory, linear programming, network models, transportation and assignment models, waiting line models, simulation concepts and Markov analysis. Prerequisite: Bu 241.

Bu 257 Business Ethics**3 Crs.**

An investigation of the philosophical questions which arise in normal business situations. The case-study method will be used to examine such questions as nepotism, competition, marketing, career advancement and product research. There will be consideration given to the question of whether a special ethic should apply to business situations.

Bu 278 Principles of International Business**3 Crs.**

Analysis of international trade activity with special emphasis in the business environment. This entails concepts and constraints associated with developing intercultural managerial effectiveness, recent patterns of world trade, human environment, trade theory, government influence, foreign exchange, international payments, financial markets, the international company and East-West business. Prerequisite: Bu 201 or permission of the department.

Bu 301 Business Policy**3 Crs.**

Formulation and administration of policy, integration of the various specialties of business, development of overall management viewpoint. Prerequisite: Senior standing or permission of the instructor.

Bu 373 Entrepreneurship: Starting Your Own Business**3 Crs.**

Most individuals sometimes feel the urge to quit their job and start a business of their own. However, being a well-qualified tradesman, a skilled craftsman, or an expert professional does not necessarily equip one to be "his own boss". This course gives the facts needed for managing an enterprise skillfully and profitably.

Bu 392 Business Seminar**3 Crs.**

A general seminar requiring research on a personal project, oral progress reports to the seminar group and a formal written report. Prerequisite: Senior standing and permission of the instructor.

Bu 399 Independent Study**1-3 Crs.**

Prerequisite: Permission of department.

nomics and microeconomics. Examines key institutions including the Federal Reserve System, corporations and labor unions.

Ec 201 Principles of Economics I**3 Crs.**

Introduction to basic macroeconomics principles. Topics include consumption, saving, investment, income and employment, business fluctuations, money and banking, fiscal and monetary policies. Prerequisite: Mt 002.

Ec 202 Principles of Economics II**3 Crs.**

Introduction to basic microeconomics principles. Topics include supply and demand, cost, profit, wages, market imperfections and anti-trust. Other topics include poverty and discrimination, environment, and energy. Prerequisite: Mt 002.

Ec 212 Economic Statistics**3 Crs.**

Introductory course in statistics for students in business administration. Problem oriented course covering topics such as: frequency distribution, probability, sampling, hypotheses testing, correlation analysis, linear regression analysis and graphic presentation of statistical material. Prerequisite: Grades of C or better in Mt 001 and Mt 002.

Ec 221 Intermediate Microeconomic Analysis**3 Crs.**

Analysis of consumer and firms decisions and their role in the determination of prices and output of goods, the allocation of resources and the distribution of income. Topics include theory of demand, pricing models, production theory, cost analysis, market structure, factor markets and externalities. Prerequisite: Ec 202.

Ec 243 American Economic Development**3 Crs.**

Survey of the development of the United States economy from the Colonial period to the present. Topics include national income and its distribution, money and banking, capital accumulation, land and population, agriculture, manufacturing, transportation and commerce, labor unions, business enterprise and the performance of the economy.

Ec 301 Intermediate Macroeconomic Analysis**3 Crs.**

A course in aggregate economic analysis. Examines theories of the determination of national income and employment. Policies associated with these theories are critically examined. Prerequisite: Ec 201.

Ec 302 Money and Banking**3 Crs.**

A study of the operations of commercial banks and other financial institutions. Examines the significance of money, credit and interest rates. Analyzes the impact of monetary and fiscal policies on the economy. Prerequisites: Ec 201 and Ec 202.

Ec 313 Managerial Economics**3 Crs.**

An analysis of the structure of industry, business firms and the application of analytical tools of economics to decision making. Topics include the determination of relevant costs for decisions within the business firm, pricing and capital budgeting problems, forecasting business conditions, risk and uncertainty, union policies and cases involving actual managerial situations which require the use of economic analysis. Prerequisites: Ec 202 and Bu 242.

Economics Courses

Ec 101 Introduction to Economics**3 Crs.**

A one semester introductory course for non-business majors designed to give students a foundation in the workings of our economy. Provides description and analysis of major concepts and issues of macroeco-

Ec 322 International Economics 3 Crs.

An examination of international trade theory and policy, balance of payment mechanism and international monetary system. Special emphasis is given to current problems of trade restrictions and tariffs, gold and international flow of funds and the role of international reserves. Prerequisites: Ec 201 and Ec 202.

Ec 341 History of Economic Thought 3 Crs.

Development of economic theory and the major contributions of the various schools of economic thought; Adam Smith through contemporary theory.

Ec 342 European Economic Development 3 Crs.

The development of the European economy from the Middle Ages to the present. Topics covered include agriculture, commerce, industry, money and banking, business fluctuations, economic integration and foreign investment.

Ec 343 Economic Development of the Third World 3 Crs.

Examines growth theories and their application to Third World countries. Analyzes problems of development in areas such as: population, agriculture, industry and trade. Specific nations are studied. Prerequisite: Ec 201 and Ec 202.

Ec 344 Comparative Economic Systems 3 Crs.

A study of the various systems by which societies organize their economic activities. Countries covered include: Soviet Union, China, Japan, England, Sweden and Yugoslavia.

Ec 372 Urban Economics 3 Crs.

Designed to provide the student with an understanding of the organization and form of urban areas and critical examination of such urban problems as transportation, housing, poverty, centralization and decentralization of government, taxation as a means of financing urban public services and problems of the environment. Prerequisites: Ec 202 or Ec 101 for non-business majors.

Ec 373 Public Finance 3 Crs.

The role of the government in relation to national income allocation and income distribution. Principles guiding the allocation of resources between the private and public sectors, expenditure and theory, including cost-benefit analysis. The impact of taxes on the distribution of income. Expenditures programs, their nature, importance, purpose and economic effects. Prerequisites: Ec 201 and Ec 202.

Ec 381 Labor Economics 3 Crs.

Covers union, labor legislation, dynamics of labor supply, labor mobility, productivity and the effects of automation, wage structure and determination and the problems of unemployment. Prerequisite: Ec 202.

Ec 401 Introduction to Econometrics 3 Crs.

The use of basic mathematical concepts to formulate models as means for understanding and solving economic problems. Examine various statistical methods of estimating and testing of economic models. Prerequisites: Ec 201 and 202 and Ec 212 or Bu 241.

Ec 402 Current Issues in Economics 3 Crs.

Examines major contemporary economic issues open to both prospective majors and non-majors. The purpose of the course is to demonstrate how economists deal with the difficult problems of the day. Prerequisites: Ec 201 and Ec 202.

Finance Courses

Fn 215 Financial Management 3 Crs.

This course is designed to provide the student with an introduction to the field of finance. Principal emphasis is given to financial statements and ratio analysis, working capital management, capital budgeting, firm's cost of capital and basic portfolio theory. Prerequisite: Ac 102 or Ac 104.

Fn 241 Financial Markets: Structure and Performance 3 Crs.

Analysis of major individual and money and capital markets, including government securities markets and various stock and bond markets. Topics include: the determination of the level and structure of interest rates, sources and uses of funds, the influence of the Federal Reserve on financial markets, the regulatory structure and inter-relations among these markets. Prerequisite: Ec 201 and Fn 215.

Fn 251 Corporate Finance 3 Crs.

Emphasis will be put on corporate long-term financial policies. Covers valuation of corporate securities, capital structure, dividend policy, analysis of overall cost of capital of the firm and mergers and acquisitions. Prerequisite: Fn 215.

Fn 271 Risk and Insurance 3 Crs.

This course is concerned with the management of risks and the use of insurance in personal and business situations. Areas to be covered include types of coverage and binding contract, underlying legal principles, risk measurement and rate making, underwriting and re-insurance, loss prevention and control, organization of the insurance industry and government regulation. Prerequisite: Fn 215.

Fn 314 Financial Analysis 3 Crs.

Develops the ability of the student to analyze financial statements in order to determine both asset value and earning capacity of the public corporation's securities. This requires an understanding of the positive and negative effects of operating and financial leverage as well as ratio analysis as it concerns both the capitalization and stock and bond markets. Proof of the student's ability lies in the preparation of an analysis of the annual report of a major publicly-held corporation. Prerequisite: Ac 202 or Fn 215.

Fn 315 Investments 3 Crs.

This course is designed to introduce the student to the different types of securities investments available to the institutional and private investor. The student will learn to evaluate individual securities by applying risk analysis as well as fundamental and technical research. Topics include: common and preferred stock investments, bond investments, commodities and financial futures, mutual funds, real estate and pension funds. Prerequisite: Fn 215.

Fn 316 International Finance 3 Crs.

Applications of principles of financial management to the decisions of corporations with international operations. Topics include: sources and uses of funds in multinational operations, impact of different exchange rates, taxation systems and inflation rates on financial decisions, project evaluation and interaction among various national financial markets. Prerequisites: Fn 215, Ec 201 and Ec 202.

Fn 317 Portfolio Management 3 Crs.

Examines price behavior of securities and techniques of securities, portfolio structuring and stock selection for both institutions and personal portfolios. Topics include: an introduction to modern portfolio theory, capital pricing and valuation techniques, and the theory of the efficient market. Prerequisite: Fn 315.

Fn 318 Current Problems in Finance 3 Crs.

Seminar on special current topics in finance. Open to seniors majoring in finance and to seniors majoring in economics, business and accounting who obtain permission of the department. Prerequisite: Fn 215 or departmental permission.

Human Resource Courses

Hr 207 Management of Human Resources 3 Crs.

Major attention is devoted to the basic personnel processes that are involved in the procurement, development and maintenance of the organizational human resource, selection, training, motivation, remuneration and relations with unions. Prerequisite: Bu 201 or permission of instructor.

Hr 208 Compensation of Human Resources 3 Crs.

Principles and problems in the administration of wages, salaries and benefits. Topics include job analysis, job evaluation, salary surveys, creating the wage structure, executive compensation, benefits administration, program maintenance and control. Provides actual experience in development of compensation programs. Prerequisite: Hr 207.

Hr 209 Development of Human Resources 3 Crs.

Deals with the optimization of human resources by facilitating change in people, in technologies and in organizational processes and structures. Emphasis on human resource planning, evaluation, training, management development, "systems" and "by objectives" approaches to planned change. Prerequisite: Hr 207.

Hr 233 Human Resources: The Legal Environment 3 Crs.

Deals with the legislative foundations, legal processes and institutions that regulate the employment of human resources in institutions. Reviews such legislation as the Occupational Safety and Health Act, the Federal Civil Rights Act and agencies such as the EEOC and the OFCCP. Prerequisite: Hr 207.

Hr 276 Job Evaluation 3 Crs.

Examines in detail the techniques and rationale of determining job value to the organization in terms of relative job worth within the firm and equitable relation-

ships of pay for similar responsibilities in other organizations. Emphasis will be placed upon the procedures for analyzing and describing jobs, methods of evaluating job worth and techniques for developing wage structures.

Hr 307 Collective Bargaining 3 Crs.

A study of the development and methods of organized groups in industry with reference to the settlement of labor disputes. An economic and legal analysis of labor union and employer association activities, arbitration, mediation and conciliation, collective bargaining, trade agreements, strikes and boycotts, lockouts, company union, employee representation and injunctions. Prerequisite: Hr 207.

Hr 308 Problems in Contemporary Collective Bargaining 3 Crs.

Collective bargaining as a process has been under intense critical fire for some time. Few problem areas in collective bargaining yield final solutions. The most critical issues in labor relations are necessarily controversial. An important obligation is to present these areas as well as the fundamentals of collective bargaining to the student. Prerequisite: Hr 207.

Hr 309 Problems in Managing Human Resources 3 Crs.

Case study and discussion of advanced problems in industrial relations and human resource management. Particular emphasis on the problems of the senior personnel executive. Prerequisite: Permission of instructor.

Hr 310 Seminar in Human Resources Management 3 Crs.

Permits advanced students to deal individually or in small groups with guided, self-study projects suited to their personal needs and interests. Research into recent developments, innovations and issues in personnel administration. Prerequisite: Permission of instructor.

Legal Assistant Courses

Lw 101 Criminal Law and Torts 3 Crs.

A survey of criminal law covering general principles, defenses, court procedures and jurisdiction, torts, the nature of tort, who may be liable, extent of liability and defenses.

Lw 102 Contracts and Uniform Commercial Code 3 Crs.

Definitions and classifications of contracts, capacity of parties, legal effect of offer, acceptance and consideration, sales, Uniform Commercial Code definitions, consideration of problems affecting Article 2 of the Code, negotiable instruments, Uniform Commercial Code definitions, consideration of problems affecting Article 3 of the Code.

Lw 121-122 Legal Research I, II 6 Crs.

Lw 121 is an introduction to the study of law and methods of legal research. Each student is required to submit written legal memoranda on problems involving questions of substantive law.

Lw 122 gives the student a working knowledge of

the Connecticut Rules of Practice and Procedure. Emphasis is on drafting pleadings, motions, memoranda and appellate briefs.

Lw 161 Legal Office Procedures 3 Crs.

A study of the work flow in a law office. Responsibilities in handling written communications and maintaining files, preparation of court documents, law office accounting, billing and forms. Discussion of legal ethics. An internship may be taken as an alternative with special permission of the Program Director.

Lw 201 Business Organizations and Domestic Relations 3 Crs.

Business organizations, formation, operation and dissolution of partnerships, corporations and limited partnerships. Domestic relations, marriage and dissolution of marriage, separation agreements, alimony, child support and custody.

Lw 202 Property and Conveyancing 3 Crs.

Personal and real property, nature of property, possession and its consequences, acquisition of property and transfer. Conveyancing, practical problems confronting conveyances from the drafting of purchase and sale agreement to the passing of papers, mechanics of the title examination, mortgages and foreclosure.

Lw 203 Estates, Probate and Taxation 3 Crs.

Estates and Probate, definitions, consideration of problems relative to the disposition of property, impact of federal income, gift and estate taxation.

Lw 235 Arrest, Search and Seizure, Confessions and Identifications 3 Crs.

This course, in essence, is a mini course in constitutional law presented from the prosecution's standpoint. It deals with the laws of arrest, search and seizure, confessions and identifications and gives a historical and current background of each. The course is offered primarily to police, law enforcement personnel and paralegals who are working in the criminal law area. The aim of the course is to give those interested in law enforcement a better understanding of law and the practical application of law as it pertains to the daily problems that confront the police in their investigations.

Lw 237 Family Law 3 Crs.

This course will cover the legal entanglements in which people find themselves and the rights of middle and lower income groups. Topics will include support obligations, legal positions of married women, abuse of women and children, legal disability of minors, dissolution of marriage, alimony, support and custody procedures, separation agreements and adoption.

Lw 238 Litigation and Civil Procedures 3 Crs.

Students will be introduced to the differences between civil and criminal litigation, courts and their jurisdiction, substantive law, investigation of facts, commencement of law suit and preparation of pleadings and motions, discovery, preservation of facts and preparation for trial, decisions and settlements, post-trial motions and appeals, techniques of legal research, file maintenance and docket control. Prerequisite: Sophomore standing.

Lw 239 Women and the Law 3 Crs.

The course will trace the development of sex discrimination as a legal and social phenomenon. The law will be covered in terms of its historical perspective, including the reforms of the late nineteenth century and the right to vote legislation of 1920. Particular emphasis will be placed on the developments of the 1960's and 1970's with respect to constitutional law, employment and employee benefits, education, criminal law, family law and reproductive freedom (contraception, abortion and sterilization).

Lw 244 Administrative Law and Procedures 3 Crs.

A survey and study of the following concepts in administrative law: judicial review, rules and rule making, hearings, procedure, discretionary justice and informal actions.

Marketing Courses

Mk 261 Principles of Marketing 3 Crs.

The basic course in investigating the components of the marketing mix. The comprehensive managerial approach is employed and cases supplement each area of exploration. Topics covered are customer behavior, product policy, channels of distribution, advertising and promotion, price policy, marketing programs and the legal aspects of marketing. Prerequisite: Bu 201.

Mk 262 Principles of Advertising 3 Crs.

An analysis of advertising from the managerial viewpoint of its relationship within the marketing mix. Social and economic aspects of advertising, practices and issues, analysis of media, the communications function, creative aspects including art and copy and measures of effectiveness. Prerequisite: Mk 261 or permission of department.

Mk 263 Principles of Retailing and Merchandising 3 Crs.

History and development of the retail function and its relationship of the wholesaler and manufacturer. Store management, the buying function, elements of style and fashion, pricing policies, customer relations, store location and sources of supply. Retail mathematics including markup, markdown and turnover. Prerequisite: Mk 261 or permission of department.

Mk 265 Industrial Marketing 3 Crs.

A study of the special problems involved in the marketing of industrial products. Covers the following aspects of the industrial marketing program: organization, advertising and sales promotion, market research, product pricing, budgets and controls and international marketing. Prerequisite: Mk 261.

Mk 286 Consumer Motivation 3 Crs.

The survey approach is implemented to explore those fields of knowledge from which important contributions to understanding marketing behavior are being made. Materials and references from psychology, sociology, cultural anthropology and history are used in conjunction with marketing problems. The consumer is examined in terms of both individual and group buying behavior patterns; his process of arriving at buying decisions is appraised at both the retail and non-retail levels. Prerequisite: Mk 261.

Mk 361 Marketing Management 3 Crs.

A broad study of the effective management of the marketing mix. The case approach assists in viewing the marketing manager's efforts as coordinated with the contributions of the segments of the firm. Outside readings contribute to the understanding of marketing decision making as being wholly related to the firm's goal, with a view to the larger context of society itself. Prerequisite: Mk 261.

Mk 362 Marketing Research 3 Crs.

Principle areas and methods of marketing research are explored including mail, diary, panel, phone and the personal interview. Various types of research are analyzed with stress on the information gathering function of research as a means to more effective business decision making. Prerequisite: Mk 261 and Bu 241.

Mk 364 Sales Management 3 Crs.

Management of sales personnel, sales department organization, selecting, training and compensation plans, sales territories, motivation of sales personnel, quotas, budgets and measurements of sales effectiveness. Analysis of the selling functions as related to consumer and industrial needs and requirements. Prerequisite: Mk 261.

Mk 365 Contemporary Marketing Problems 3 Crs.

Investigation of current marketing problems with emphasis on decision making in an environment of uncertainty. Analysis of modern marketing philosophy and trends. Course structured in a seminar atmosphere. Research paper required with maximum individual effort and minimum classroom work. Prerequisite: Six marketing credits or permission of instructor.

Mk 367 Industrial Marketing Research 3 Crs.

Marketing research techniques as utilized and practiced by corporations engaged in the marketing of industrial products or services. Prerequisite: Mk 261 and Bu 241.

Mk 399 Independent Study 1-3 Crs.

Prerequisite: Permission of the department.

tracting, negotiating techniques and materials management. It is designed to complement Principles of Production and Inventory Control (Pd 275).

Secretarial Studies Courses

Se 005 Speedwriting I 3 Crs.

The student learns to read, write, record, and transcribe speedwriting symbols fluently and accurately, as well as to develop a knowledge of spelling, word usage, sentence structure, and punctuation.

Se 031 Legal Terminology 1 Cr.

This course is designed to introduce and acquaint the student with frequently used legal vocabulary which includes pronunciation, spelling, and definitions of legal words and a variety of legal foreign words and phrases. *The primary objective is to develop the student's ability to understand, utilize, and write legal terminology.

*An over-all view of the field will include Connecticut legal forms and documents, thus acquainting the student with various aspects and divisions of laws and the basic terminology related to each.

Se 041 Typewriting I 3 Crs.

Develop mastery of the electric keyboard, knowledge of the manipulative parts of the typewriter, and introduce centering, tabulations, memoranda, basic business letters, and manuscripts. This course is open to all students as an elective.

Se 042 Typewriting II 3 Crs.

Further develop skills introduced in Typewriting I with emphasis on building speed and maintaining accuracy. Apply typing techniques and knowledge to more complex business correspondence. Prerequisite: Se 041 or permission of instructor.

Se 043 Typewriting III 3 Crs.

Continued speed development maintaining accuracy. Production work concentrates on specialized vocabulary, technical typing, typing from handwritten materials and rough drafts, and simulation projects on electric and electronic typewriters. Prerequisite: Se 042 or permission of instructor.

Se 051 Shorthand I 3 Crs.

Major emphasis is placed on the presentation of Gregg shorthand theory principles. There is continuous drill on word-building principles and abbreviating devices. Reading and writing skills are developed in the Gregg shorthand system. Students progress to a minimum speed of 60 wpm for three-minute takes.

Se 052 Dictation and Transcription 3 Crs.

Emphasis on building speed in taking dictation, strengthening knowledge of theory, developing business vocabulary, and building transcription skills. Major focus involves the refinement of necessary skills in the transcription of mailable letters. Students will progress to a minimum dictation speed of 80 wpm for three minutes.

This course accommodates students with background in Gregg Shorthand, Speedwriting, Century 21, and any other writing system. Prerequisite: Se 051 or Se 005 or permission of the instructor.

Production Courses

Pd 275 Principles of Production and Inventory Control 3 Crs.

A comprehensive survey of the techniques and rationale of production and inventory control. Covers forecasting, inventory management, production planning, scheduling and control. Prerequisite: Bu 241.

Pd 277 Purchasing—Policies, Procedures and Techniques 3 Crs.

A comprehensive course in the concepts and methodologies of purchasing. Among the topics covered are the management of purchasing personnel, vendor relationships, performance standards, systems con-

Se 081 Medical Terminology**1 Cr.**

Designed to provide the student with an opportunity to develop a knowledge of medical terminology, including pronunciation, definitions, and spelling of medical terms. Career opportunities, professional organizations, medical ethics, confidentiality, and professionalism are discussed, in addition to introducing the students to various medical and dental specialties and reference materials. Prerequisites: Se 041 or permission of the instructor.

Se 131 Legal Office Procedures I**3 Crs.**

Legal Office Procedures I prepares the student for a legal position in an attorney's office or in a legal department of a corporation. This course provides the student with a thorough knowledge of office procedures which is required by all competent legal secretaries. The primary objective of this course is to familiarize the students with the basic attitudes and skills which are essential in successfully maintaining a legal secretarial position. Emphasis is directed toward the student's understanding and preparation of various Connecticut forms and legal papers. Application and exposure is given to legal documents, terms, and special duties involved in legal typing and procedures. Prerequisite: Se 031, Se 042, Se 052, Se 161, or permission of instructor.

Se 132 Legal Office Procedures II**3 Crs.**

This course is designed to continue and expand on those practices started in Legal Office Procedures I, but in greater detail. Emphasis is placed on the student's ability to prepare legal papers and court documents. Special instruction is given to enable the student to derive legal information from one document to be applied to another. Special emphasis is placed on the student's ability to handle, maintain, execute, and follow through various legal forms, records, and procedures. All instruction is directed toward Connecticut forms, rules, and practices. Prerequisite: Se 131.

Se 151 Executive Office Procedures**3 Crs.**

Continued skill development in shorthand dictation and transcription of mailable letters. Emphasis upon the administrative responsibilities of a secretary, including review of all activities related to entering the job market, handling of financial records, composing a variety of business communications, and familiarization with general administrative support services. Prerequisites: Se 042, Se 052, Se 161 or permission of instructor.

Se 152 Executive Office Procedures**3 Crs.**

Continue to strengthen and refine the basic skills previously acquired and further development of speed and accuracy in transcription. Continuation of specialized administrative duties such as incorporating a records system, handling travel arrangements, planning meetings and conferences, and further exploration of general administrative support services. Prerequisite: Se 151.

Se 161 Office Procedures**3 Crs.**

A study of modern electronic office practices, work habits, attitudes and human relations presented utilizing discussion techniques, oral and written communication, guest speakers and field trips. Prerequisite: 041.

Se 163 Field Office Experience**3 Crs.**

This course is designed to provide students with the opportunity to transfer their basic skills to the solution of office problems. Arrangements will be made with organizations in the local business community for a supervised work experience program. Permission of instructor is required. Monthly seminars will be scheduled.

Se 170 Theory and Supervision In Word Processing**3 Crs.**

The overall word processing concept used in conjunction with equipment, procedures, and personnel in relation to the concept of a total automated office system is the focal point of this course. Stress will focus on techniques used for effective management and supervision in word processing centers. Learning to organize and operate a center through acquiring knowledge and expertise in day-to-day operations, selecting and training personnel in a center, evaluating work, and measuring productivity of subordinates will be included.

Se 171 Word Processing I**3 Crs.**

Word processing is a concept that embodies the development of an idea from its origination into a finished communication; namely, a typewritten document. The use of word processors, electronic typewriters, cassette transcribers, Selectric IIs, and self-correcting typewriters, will be the focal part of this course. Through a lecture series and the utilization of transparencies, films, and filmstrips, students will be introduced to the theory and concept of word processing. Skill-building, reference manual work, editing, and the improvement of language arts skills will be stressed. Prerequisite: 042.

Se 172 Word Processing II**3 Crs.**

This course is designed to strengthen proficiency on all automatic equipment. In Word Processing II, students are expected to develop expertise on such equipment as the Vydec, IBM Memory Typewriter, IBM Mag Card II, MICOM 2000, and the Wangwriter. Editing, transcription from correlated word processing material, punctuation, grammar, proofreading techniques, and spelling are also continued. Prerequisite: Se 171.

Se 181 Medical Office Procedures I**3 Crs.**

Designed to provide the student with a thorough knowledge of medical office procedures, develop skill and speed in taking and transcribing medical dictation, and develop skill in machine transcription of medical material. Emphasis placed upon career opportunities and qualification, medical terminology, medical reference material, medical ethics, medical law, confidentiality, and professionalism. Prerequisites: Se 042, Se 052, Se 081, Se 161 or permission of instructor.

Se 182 Medical Office Procedures II**3 Crs.**

Continued emphasis on providing the student with a thorough knowledge of medical office procedures, developing skill and speed in taking and transcribing medical dictation, and developing skill in machine transcription of medical material. Prerequisites: Se 181 or permission of instructor.

Division of Humanities and Social Sciences

Dr. Donald W. Brodeur, Dean

The Division of Humanities and Social Sciences consists of those departments which offer a basis for a liberal arts education. The disciplines represented contribute to an appreciation of the value of creative and intelligent inquiry, an understanding of the value of the world's vast storehouse of knowledge and how it can be retrieved and applied effectively to the current condition and a promotion of the value of the examined life including intellectual, social, spiritual and psychological growth.

Departments and Programs

Art and Music

Virginia Zic, Chairperson

Leland R. Roberts, Music Program Director

Education

Dr. Alfred G. Tufano, Chairperson

Carol Larson, Graduate Education Program Coordinator

English

Dr. Roberta Lynne Staples, Chairperson

History and Political Science

Dr. Paul Siff, Chairperson

Dr. John F. Kikoski, Political Science Program Director

Media Studies

Dr. Donald E. Coonley, Chairperson

Modern Foreign Languages

Dr. Maria-Teresa Torreira Tenorio, Chairperson

Philosophy

Dr. Edward J. Bordeau, Chairperson

Psychology

Dr. Edward W. Malin, Chairperson

Religious Studies

Dr. Walter E. Brooks, Chairperson

Michael L. Raposa, MARS Program Director

Sociology, Social Work and Criminal Justice

Dr. Nicole Xavier Cauvin, Chairperson

Sally E. Hollingsworth, Social Work Program Director

Marc K. Stanton, Criminal Justice Program Director

DEPARTMENT OF ART AND MUSIC

Through art and music there is direct access to the products of human intelligence and ingenuity. Creativity reflects and builds upon the past and projects into the future. Historical survey courses in art and music foster the ability to examine and evaluate creative achievements in the social and cultural milieu within which they were created. The relationship between the artist, the time and the audience is a general focus for much of this study. Applied Music and Studio Art courses are planned to foster the growth of individuality through experience in the making of art and music. These courses are a challenge to the perceptual and conceptual processes of creative expression.

The department offers a major in art with specialization in painting, illustration or graphic design.

Major in Painting

An artist communicates with a visual vocabulary the experience of living. With imagination and sensitivity, the artist visually conveys a personal response to nature and the environment. The personal and expressive insight of the artist moves and influences those who are receptive to this creative vision.

In preparing students for a career in the fine arts, emphasis is placed on the development of skills in painting and drawing. Through growth in aesthetic sensibility toward color and pictorial organization, the student learns to explore new possibilities of expression. The course of study examines traditional and experimental painting and drawing and is designed to expand the student's initiative, imagination and capacity for self-criticism. The development of sensitivity and self-awareness are integral to the individual's realization of personal expression and the power of personal vision.

Required Courses:

Ar 110	Design: Visual Organization	Ar 130-230	Painting I, II
Ar 111	Design: Color	Ar 231-330	Painting III, IV
Ar 120-220	Drawing I, II	Ar 391	Senior Project
Ar 221-320	Drawing III, IV		

Six credits in Art History

Three credits in studio electives

Major in Illustration

The illustration profession affects all areas of visual communication including books, periodicals, educational aids, advertising and television. Illustrators are part of a team. In their creative efforts they consult with writers, editors, art directors and clients. Their creative work is generally reproduced through either the printed or electronic media, and their final product is achieved jointly with printers and/or film technicians. In this collaborative venture, the illustrator is the innovator and primary force for aesthetic quality. The illustration program is planned to give a foundation in this vital field and enables the student to competently handle the numerous problems of this demanding profession.

Required Courses:

Ar 110	Design: Visual Organization	Ar 160	Illustration Methods
Ar 111	Design: Color	Ar 211	Typography/Layout
Ar 120-220-		Ar 260-261-	
221	Drawing I, II, III	360	Illustration I, II, III
Ar 130	Painting I	Ar 390	Portfolio Preparation

Six credits in Art history

Major in Graphic Design

The graphic designer is a visual communicator. Design problems that present the image of companies, institutions, products and individuals are effectively solved by the graphic designer. Their creative vision is expressed in the effective planning and execution of

corporate identity programs, logos, annual reports, signage, promotional materials and point of sale items, architectural graphics, stationery and other printed materials. In all instances, the designer must create images to which the public will respond and understand. In working with photographers, film makers and illustrators, the designer selects the best methods for the visual solutions to specific problems. The graphic design graduate can look forward to a stimulating career in the ever-broadening field of graphic and visual communication.

Required Courses:

Ar 110	Design: Visual Organization
Ar 111	Design: Color
Ar 112	Design: Three Dimensional Graphics
Ar 120-220	Drawing I, II
Ar 130	Painting I or
Ar 131	Watercolor
Ar 211	Typography/Layout
Ar 212	Design: Reproduction Processes
Ar 260	Illustration I
Ar 270-271	Graphic Design, I, II
Ar 370	Advanced Graphic Design
Ar 390	Portfolio Preparation
Six credits in Art history	

Music Program

The condition of today's music is radically changed from that of all previous ages. This change is the work of scientists and technicians, not composers and performers. Through electronic media, music has become immediately accessible to almost everyone, not only the songs of modern troubadours, but the accents of distant drummers, speaking from far off lands and ages. In a sense, all music, however close or remote its origins in time and space, has become our music. We seek to engage it, to open our minds and spirits to its language and emotion, to range through its vast, polyglot treasures, and thus to become more fully one with the humanity which continually amplifies our cultural heritage.

DEPARTMENT OF EDUCATION

The Department of Education at Sacred Heart University offers students a professional curriculum approved by the State of Connecticut and the New England Accrediting Association for provisional certification as elementary and secondary school teachers. Special training is offered within the certification sequence in Nursery School/Day Care, Teaching English to Speakers of Other Languages (TESOL) or Bilingual Education. The Department also has a graduate program leading to a Master's degree and permanent teaching licensure.

In addition to the teacher certification sequence, prospective teachers must major in an academic area. Thus teacher graduates enter the job market with more than one skill. Certified teachers with a degree from Sacred Heart possess academic excellence and a high level of professional competence.

At Sacred Heart, training is focused upon the personal growth of the teacher, enhancement of a positive self-image and the social and emotional qualities conducive to teacher effectiveness. Students receive training in those teaching skills based on the best current research.

Elementary and secondary education programs have been approved by the State of Connecticut. The elementary education program prepares teachers for certification in nursery school through eighth grade. The secondary education program provides a background for certification in grades seven through 12 within the areas of business education, English, history and social studies, mathematics, biology, chemistry, general science or Spanish.

Required Courses:**Elementary School Sequence**

Ed 101	Educational Psychology
Ed 152	Education in America
Ed 202	Developmental Psychology for Teachers
Ed 221	Methods of Teaching Reading and Language Arts
Ed 222	Methods of Teaching Mathematics, Science and Social Studies
Ed 248	Teaching the Visual, Auditory and Physical Arts
Ed/En 387	Children's Literature
Ed 391	Student Teaching Seminar—Elementary

Secondary School Sequence

Ed 101	Educational Psychology
Ed 152	Education in America
Ed 203	Personal Effectiveness Training
Ed 260	Teaching Remedial Writing
Ed 342	Teaching Reading in Content Areas
Ed 395	Student Teaching Seminar—Secondary

One methodology course from the following:

Ed 262	Secondary Methods: English
Ed 263	Secondary Methods: History and Social Studies
Ed 264	Secondary Methods: Spanish
Ed 265	Secondary Methods: Business
Ed 266	Secondary Methods: Mathematics
Ed 267	Secondary Methods: Science

DEPARTMENT OF ENGLISH

The study of literature concerns itself with writers' attempts to define through work and image their personal lives and the world they inhabit. Literary works are expressions of artistic ingenuity, statements on the human condition and reflections of the cultural conditions under which they are produced.

In the literature program, you will explore literature from the ancient to the modern and at the same time will strengthen your communications skills. A wide variety of writing, speech and drama courses will help you develop your personal style of expression.

With the assistance of a major advisor, you will work out a program of studies that reflects your interests. Specific course sequences will prepare you for graduate school, for the professions (teaching, law, medicine), for business and industry (advertising, company writing, editing, personnel relations, press relations, sales), and in conjunction with the media studies department, for the arts (acting, radio-TV, journalism and cinema).

In addition, the Department of English has two new tracks leading to majors or minors in English. Along with the traditional literature major, the department now offers an English major with a concentration in writing and another English major with a concentration in drama. Students majoring in other departments can minor in any of the three concentrations: literature, writing or drama.

Required Courses:

En 265	Shakespeare
Ms 101	Media: The Extensions of Man

One course from each of the first five areas:

Area I

En 310	British Literature to 1603
En 312	Seventeenth Century British Literature

Area II

- En 313 Restoration and Eighteenth Century British Literature
 En 314 The Romantic Period in British Literature

Area III

- En 315 The Victorian Period in British Literature
 En 316 Twentieth Century British Literature

Area IV

- En 250 Literature in a New Land: Early American Literature
 En 255 Early American Black Literature
 En 256 The Flowering of New England

Area V

- En 257 From Dickinson to Eliot: Out of the Woods and
 Into the Wasteland
 En 258 From Faulkner to the Present
 En 386 Black Writers in America

Area VI

- En 170-179 Studies in Writing: Special Topics
 En 206-207 Studies in Language: Special Topics
 En 230-239 Studies in Drama: Special Topics
 En 270-279 Studies in Writing: Special Topics
 En 280-289 Studies in World Literature: Special Topics
 En 320-329 Studies in Poetry: Special Topics
 En 340-349 Studies in Fiction: Special Topics
 En 370-379 Studies in Writing: Special Topics
 En 384-385 Studies in Black Literature: Special Topics
 En 387-388 Studies in Children's Literature: Special Topics
 En 390 Studies in Literary Criticism: Special Topics
 En 391 Departmental Seminar
 En 398 Independent Studies

Literature Concentration

Five English electives

Students concentrating in Literature are urged to elect advanced studies in related disciplines such as Fine Arts, Media Studies, History, Psychology, Philosophy and Religious Studies. Two points should be kept in mind when selecting electives from other disciplines: (a) such courses should help develop a well-rounded, liberally educated person, and (b) such courses should coincide with the student's career objectives.

Writing Concentration

- En 375 Advanced Composition
 Four Studies in Writing courses

Drama Concentration

- Ca 141 Introduction to the Theater
 Ca 161 Theater History I or
 Ca 162 Theater History II
 Ca 275 or Drama Practicum
 Ca 375

Two courses from the following:

- Ca 151 Story Theater Workshop
 Ca 171-271 Acting I, II
 Ca 273-274 Drama Workshop
 Ca 275-375 Drama Practicum
 Ca 280 Oral Interpretation of Literature
 En 230-239 Studies in Drama: Special Topics

Elementary English Education Program

Required Courses:

En 375	Advanced Composition
Ed 387	Children's Literature

Secondary English Education Program

Required Courses:

En 207	Introduction to English Language Study
En 375	Advanced Composition
En 388	Young Adult Literature
Ed 262	Methods of Teaching English on the Secondary Level
Ed 341	Reading Problems of School Children

Communication Arts Program

Communication Arts courses may be taken as general electives leading to the completion of 120 credits for graduation. They may also be used as credit toward the English major with a concentration in Drama. They do not, however, count towards the English major with Literature or Writing concentrations.

The Drama concentration provides a suitable minor to complement education, psychology, media studies and other majors.

The program emphasizes the basic concern of speech as a means of interpersonal communication, offers upper-division courses in drama as literature and allows the student to explore such areas as scripting, acting, set design, directing and costuming.

DEPARTMENT OF HISTORY AND POLITICAL SCIENCE

The Department of History and Political Science aims to provide students with a comprehension of the permanent values and ideas of society and government that have survived the tests of time. Courses are designed to stimulate the inquiring mind and cultivate the critical insight of the student.

Major in History

History opens doors to many career possibilities. Although teaching has been a frequent goal in the past, history majors have excellent preparation for careers in law, politics, business, government, journalism, foreign service, curatorship, and many others. The analytical ability to think and to solve problems, and the breadth of knowledge which a major in history provides, are qualities sought in today's world.

Those who pursue a study of history acquire not only knowledge but also skills in research, analysis, judgement of evidence and in the organization and expression of ideas.

Required Courses:

Hi 001	Western Civilization to 1715
Hi 002	Western Civilization since 1715
Hi 121	United States History to 1865
Hi 122	United States History since 1865
Hi 201	Historical Method and Criticism

Five History electives

Minor in History

Hi 001	Western Civilization to 1715
Hi 002	Western Civilization since 1715
Hi 121	United States History to 1865
Hi 122	United States History since 1865

Two electives

Major in Political Science

A knowledge of government and politics is crucial for all those who wish to participate as citizens, to vote with perception and thereby to preserve the heart and core of democracy as well as their own freedom in our society.

The Political Science curriculum at Sacred Heart University is designed to awaken an understanding and appreciation for government and politics in the broadest sense. Courses are offered in the four major areas of the discipline: American Politics, International Politics, Comparative Politics and Political Philosophy and Theory. In addition to normal course offerings, the department regularly sponsors speakers, conferences and trips to take the student out of the classroom and to offer additional, valid avenues for learning. Student internships in the offices of elected officials, public administrators and others also are encouraged.

Students who major or minor in political science receive sound preparation for future careers in law, elective or administrative public services, teaching, international affairs, business management and journalism.

Required Courses:

Po 121 Introduction to American Government

Po 122 Introduction to International Politics

At least one course from Area III-Comparative Politics

At least one course from Area IV-Political Philosophy and Theory

Six Political Science electives

Area I-American Politics

Po 121 Introduction to American Government

Po 212 State and Local Government

Po 213 Lobbying and the Legislative Process

Po 214 Connecticut State Government

Po 215 Political Parties

Po 216 Congress and the Legislative Process

Po 217 The American Presidency

Po 321 Public Administration

Po 322 American Public Policy

Po 325 Politics, Law and Judicial Behavior

Po 351 Constitutional Law

Po 352 Special Topics in Administration

Po 391 Internship Program

Area II-International Politics

Po 122 Introduction to International Politics

Po 242 International Organizations

Po 244 American Foreign Policy Since 1945

Po 245 U.S. Foreign Policy in Africa

Po 246 U.S. Foreign Policy and the Third World

Po 285 Future Politics

Po 341 International Law

Area III-Comparative Politics

Po 231 Comparative European Politics

Po 233 Comparative Asian Politics

Po 234 Politics of the Middle East

Po 305 Political Profiles: Hitler, Stalin, Mao and Tito

Area IV-Political Philosophy and Theory

Po 301 Development of Ancient and Medieval Political Theory

Po 302 Development of Modern Political Theory

Minor in Political Science

Po 121 Introduction to American Government

Po 122 Introduction to International Politics

Four Political Science electives

DEPARTMENT OF MEDIA STUDIES

Media studies is an innovative program offering a major which combines the study of communications theory and technology with the liberal arts.

The program recognizes that the student must be technologically competent and must understand the historical, social and philosophical aspects of media. The student concentrating in media studies examines the theories behind contemporary communication in journalism, broadcasting and film. Media workshops aimed at developing basic competence in communication production are viewed as an integral part of the program.

Required Courses:

Ms 101 Media: the Extensions of Man

Ms 102 Media Study Skills

Ms 201 Kinetics: Studies in the Moving Image

Ms 301 Reading Seminar in Communications

Ms/En 375 Advanced Composition

Ms 397 Senior Project

18 credit hours from the following production courses:

Ms 212-312 Radio Production I, II

Ms 213-313 Video Production I, II

Ms/En 214 News Reporting and Writing

Ms 370 Newspaper Publication

Ms 215-315 Film Production I, II

Ms 216 Color Slide Photography

Ms 395 Media Practicum

Ms 398 Independent Study (if production oriented)

The student must also take:

Ms 191 The Development of Motion Pictures I or]

Ms 192 The Development of Motion Pictures II]

Ms/En 214 News Reporting and Writing or]

Ms 370 Newspaper Publication]

One course in genre literature

Recommended Courses:

Ar 110 Design I: Visual Organization

Ar 120 Drawing I

Ar 211 Typography/Layout

Ar 255 Photo Graphics

Ar 260 Illustration I

Ar 270 Graphic Design

Ar 370 Advanced Graphic Design

Bu 221 Business Communications

Bu 261 Principles of Marketing

Bu 262 Principles of Advertising

Ca 151 Story Theater Workshop

Ca 161 Fundamentals of Theater

Ca 171-271 Fundamentals of Acting I, II

Ca 280 Oral Interpretation of Literature

Cs 010 Computers for the Non-Scientist

Cs 011	A First Course in Computer Science
En 205	Language and Human Behavior
En 206	Language and Culture
En 378	Creative Writing
Lw 241	Entertainment Law
Ps 141	Expanding Human Awareness
Ps 215	Social Psychology
Ps 261	Experimental Psychology—Perception
So 364	Public Opinion and Propaganda

DEPARTMENT OF MODERN FOREIGN LANGUAGES

The Department of Modern Foreign Languages responds to the student's interest in learning about other people, both abroad and in this country, and to the desire to communicate with these people. The curriculum is designed to help the student develop linguistic versatility and cultural sensitivity through acquaintance with a second language and its culture. Courses in Arabic, Chinese, French, German, Modern Greek, Gaelic, Hungarian, Italian, Japanese, Lithuanian, Polish, Portuguese, Slovak and Ukrainian are offered in response to student interest and need. A variety of courses in Spanish language and literature is offered for both Spanish majors and non-majors. Minor programs are offered in some languages. Flexible counseling, rather than a prescribed program of courses, aids the student in attaining personal goals, whether they be intellectual growth, preparation for advanced study in graduate school, teaching language in the secondary schools as a major or minor subject or work as bilingual secretary, radio announcer, interpreter or translator. A language laboratory for reinforcement of oral skills and slide and film projectors for presenting the library's cultural materials are available. The library also contains a substantial collection of Spanish and Spanish-American literature, as well as materials on Puerto Rico, which are of special interest to today's students. A Spanish club, La Hispanidad, provides opportunities for informal communication with the Spanish-speaking and acquaints North American students with this group and with their concerns. Trips to museums, the experiencing of Spanish cuisine at restaurants and the homes of faculty and fellow students, as well as other activities, form an integral part of Spanish studies. Study abroad is desirable and is made available to those who are able to participate.

The Spanish Major requires 33 credits.

Required Courses:

Spanish Major

Sp 101-102 Advanced Spanish Grammar and Composition I, II

Sp 201-202 Spanish Literature I, II

Sp 280-281 Hispanic Civilization I, II

3 credits in each Spanish American Literature and Conversation upper level course.

Minor Programs

French:

Fr 051-052 Intermediate French I, II (may be waived by the department)

Fr 101-102 French Grammar and Composition I, II

Fr 111-112 Conversational French I, II

Fr 215-216 French Readings and Discussion

Italian:

It 051-052 Intermediate Italian I, II (may be waived by the department)

It 111-112 Conversational Italian I, II

It 215-216 Italian Readings and Discussion

DEPARTMENT OF PHILOSOPHY

The Department of Philosophy services the academic community in a three-fold way. Since the University considers the philosophical experience as integral to the intellectual and cultural development of today's student, the department provides foundation courses that satisfy core requirements in Area IV. Its broad range of electives, dealing with historical movements as well as contemporary problems, allows for a major in philosophy and makes available a variety of electives of an interdisciplinary nature.

In whatever way the student comes to philosophy, whether it be to satisfy a core, major or elective requirement, the department seeks to enrich the life experience by making available the broad and generous ideas that have shaped the contemporary intellectual world. Awareness of the traditional philosophical forces of the past is a condition for understanding the ideological trends of today.

In our increasingly complex and dynamic culture, the growth of novel and challenging ideas unsettle traditional patterns of thought and action. As a result, the role of philosophy becomes more vital, for it addresses itself to the conflict between the enduring insights of the past and the new discoveries and theories of the present in an attempt to attain a coherent philosophy of life. The ability to understand, manipulate and control these broad theories is a prerequisite to structuring for oneself a coherent and consistent world-view that will give direction and meaning to one's behavior, both intellectual and moral.

A total of 30 credits is needed to complete the major in Philosophy.

Required Courses:

Ph 101	Introduction to the Problems of Philosophy
Ph 212	The Art of Making Sense: Practical Logic
Ph 231	Philosophy of Knowledge
Ph 251	Ethics

Recommended Courses:

Ph 225	Plato
Ph 270	Philosophical Anthropology
Ph 306	Existentialism
Ph 307	Introduction to Phenomenology
Ph 312	Philosophical Foundations of Marxism
Ph 322	American Philosophy and Culture

DEPARTMENT OF PSYCHOLOGY

It is the goal of the Psychology Department to provide its students with a basic foundation in the scientific study of behavior. Such a background will be of value to two groups of students: those who intend to enter the employment market after completion of the Baccalaureate degree and those who wish to further their education through graduate study and pursue a career in psychology or a related field.

A broad spectrum of courses ranging from Psychodynamics to Experimental Psychology is offered by the department, and, in addition to completing the required courses, students may take those electives which interest them and for which they have completed the necessary prerequisites. Independent laboratory research, programs in field experience and contemporary seminars are also available to qualified students in their senior year.

Required Courses:

Psychology Major

Ps 101	General Psychology-Scientific Aspects
Ps 102	General Psychology-Psychodynamics

- Ps 151 Statistics for the Behavioral Sciences
 Ps 152 Research Design and Analysis
 Ps 260-269 Experimental Psychology (two courses)
 Ps 292 Systems and Theories of Psychology
 Ps 351 Physiological Psychology
 Ps 396 Field Experience in Psychology
 Two Psychology electives (only one of these may be an experiential course)

Psychology Minor

- Ps 101 General Psychology—Scientific Aspects
 Ps 102 General Psychology—Psychodynamics
 Ps 292 Systems and Theories of Psychology
 Three Psychology electives (only one of these may be an experiential course)

DEPARTMENT OF RELIGIOUS STUDIES

The Religious Studies Department offers a program that invites the student to enter into a process of reflection on his/her own experience at the deepest level. From this standpoint the student is encouraged to investigate a broad range of religious expressions representative of the human attempt to come to terms with questions of ultimate significance. Through this reflection it is hoped that the student will be able to engage in a critical dialogue with his/her own religious tradition and self-understanding.

Throughout the history of culture, religion has played an enormous role in shaping and determining human actions, perceptions, and institutions. Consequently, the failure to explore the religious dimension of human experience must render that experience largely incomprehensible. None of the disciplines traditionally classified under the rubric of the "humanities" can afford to ignore the basic religious questions, and religious studies itself occupies a central position among these disciplines.

Humanistic in its orientation, the study of religion relies partially on the social sciences for its methodological apparatus. The student of religion must learn to play the roles of the anthropologist, sociologist, and psychologist as well as the philosopher, historian, and literary critic. Specific courses in the program examine the various symbols and myths, rituals and creeds, events and institutions that illuminate the religious imagination and understanding. In addition, the student is encouraged to investigate the cultural interaction between religion and both the natural sciences and the arts. Methodologically and topically diverse, the program is unified by its commitment to the task of exploring the basic religious beliefs and insights that render human life and experience meaningful.

Required Courses:

- Rs 101 Introduction to the Study of Religion
 Six credits in Biblical Studies
 Six credits in Religious History and Thought
 Fifteen credits in Religious Study electives

DEPARTMENT OF SOCIOLOGY, SOCIAL WORK AND CRIMINAL JUSTICE

The Department of Sociology, Social Work and Criminal Justice offers a varied selection of courses in sociology, social work, anthropology and criminal justice. In addition to its over-all liberal arts education emphasis, the Department offers specific programs of professional preparation in social work, specialized sociological areas and criminal justice.

All students must have a minimum of 30 credits in Sociology.

Major in Sociology

Sociology majors may choose a program of study from the following sequences: General Sociology, Corporate Sociology, Social Research or Graduate Work Preparation.

The curriculum in each sequence consists of a core of theoretical and methodological courses to which specific courses are added to adequately prepare the students in the sequence of their choice.

The area of General Sociology is intended for students who desire a broad knowledge of the field and for those students who plan to enter the field of elementary or secondary education.

The Corporate Sociology sequence is designed for students interested in the use of sociological knowledge in the business world. The focus of study is on the impact of the corporation on our social system and how the social system affects the daily operations and structure of the contemporary corporation.

In the Social Research sequence, the emphasis is on providing adequate training to students interested in the fields in which methods of social research are applied, such as program evaluation, community planning, surveys of public opinion and pure and applied research.

Students who plan on attending graduate school receive a general preparation in the Graduate Work Preparation sequence with an emphasis on theory, research methods and statistical analysis. This area is oriented primarily for students who want to pursue a career in sociology, especially a teaching career which requires at least a masters degree, or students who want to pursue a graduate degree in law, business, the human sciences, the humanities or any other related field. In general, this sequence is an excellent preparation for taking the GRE, LSAT or other graduate entrance exams.

Required Courses:

General Sociology Sequence

An 101	Physical Anthropology or]
An 102	Cultural Anthropology	
So 101	Principles of Sociology	
So 291-391	Methods of Social Research I, II	
So 303	Sociological Theories	
So 321	Contemporary Social Thought	

Six credits from the following:

So 206	Society and Economic Issues of the 80's
So 215	Social Psychology: Macroprocesses
So 219	Social Change
So 231	Marriage and the Family
So 260	American Minorities
So 281	Demography
So 328	Complex Organizations

Twelve credits in related fields: anthropology (other than An 101 or An 102), psychology, political science, economics or history, with no more than six credits in any one field.

Corporate Sociology Sequence

An 101	Physical Anthropology or]
An 102	Cultural Anthropology	
So 228	The Corporate Society	
So 291-391	Methods of Social Research I, II	
So 303	Sociological Theories	
So 321	Contemporary Social Thought	
So 328	Complex Organizations	
So 390	Social Statistics	
So 393	Seminar in Corporate Sociology	
Hr 207	Management of Human Resources	
Hr 209	Development of Human Resources	

Hr 233	Human Resources: The Legal Environment
Bu 301	Business Policy <i>or</i>
Bu 382	Business Forecasting]

Social Research Sequence

An 101	Physical Anthropology <i>or</i>
An 102	Cultural Anthropology]
So 101	Principles of Sociology
So 291-391	Methods of Social Research I, II
So 303	Sociological Theories
So 321	Contemporary Sociological Thought
So 390	Social Statistics
So 395	Internship in Social Research
Cs 009	A First Course in Computer Science

Six credits from the following:

So 206	Society and Economic Issues of the 80's
So 215	Social Psychology
So 219	Social Change
So 231	Marriage and the Family
So 260	American Minorities
So 281	Demography
So 328	Complex Organizations

Twelve credits in related fields: anthropology (except for An 101 or An 102), psychology, political science, economics or history, with no more than six credits in any one field.

Graduate Work Preparation Sequence

An 101	Physical Anthropology <i>or</i>
An 102	Cultural Anthropology
So 101	Principles of Sociology
So 291-391	Methods of Social Research I, II
So 303	Sociological Theories
So 321	Contemporary Sociological Thought
So 390	Social Statistics

Fifteen credits from the following:

So 185	Social Stratification
So 215	Social Psychology
So 219	Social Change
So 231	Marriage and the Family
So 260	American Minorities
So 275	Deviance and Social Control
So 281	Demography

Twelve credits in related fields: anthropology (except for An 101 or An 102), psychology, political science, economics or history, with no more than six credits in any one field.

Major in Social Work (Accredited by the Council on Social Work Education)

Social Work is both a profession and a method of helping. Social work is a profession which works with individuals, families, groups and the community in order to help maximize their well-being through the identification of personal, interpersonal and environmental problems and to bring about the necessary change that will resolve, minimize or prevent these problems. The emphasis in this profession is not only on the solution or prevention of problems, but also on the process of empowering people to act effectively in their own behalf. As a method of helping, social work is the purposeful, systematic and disciplined use of the professional self through the application of social work knowledge, skills and values to facilitate development and change in individuals or larger systems.

The curriculum is designed to emphasize the acquisition by students of both analytic and conceptual skills as well as the development of interactional skills which allow students to actively implement planned change and to intervene in problem situations.

Social Work majors may undertake a concentration in corrections in addition to the Social Work major requirements. This interest should be discussed with the student's major advisor as early as possible in order to plan for the inclusion of this additional educational experience.

Elective courses in various fields of service may be offered from time to time.

Required Courses:

So 101	Principles of Sociology
So 215	Social Psychology: Macroprocesses
So 260	American Minorities
Sw 171	Introduction to Social Work
Sw 265	Social Welfare as a Social Institution
Sw 266	Social Welfare Policy and Services
Sw 267-268	Human Behavior and the Social Environment I, II
Sw 275-375	Social Work Practice I, II
Sw 278	Junior Field Practicum
Sw 279	Junior Field Practicum Seminar
Sw 378	Senior Field Practicum I
Sw 379	Senior Field Practicum Seminar I
Sw 380	Senior Field Practicum II
Sw 381	Senior Field Practicum Seminar II
Sw 390	Research Methods for Social Work

Pre-requisites:

Bi 101	Nature of Life
Po 213	Laws, Legislatures and Lobbyists
Ps 101	General Psychology
So 206	Society and Economic Issues

Major in Criminal Justice

The Criminal Justice Program is designed to acquaint students with the criminal justice system as a whole, which consists of public and private police, courts and corrections. It is a career oriented program, with emphasis on the liberal arts, offering students the choice of a B.A. or B.S. degree. The course of study will enable graduates to pursue careers in law enforcement, correctional security and counseling, probation, parole, court administration, personnel management in various criminal justice agencies and private security. The program also prepares students to enter law school or graduate school in the social and behavioral sciences. It provides an excellent opportunity for criminal justice personnel, community and junior college graduates and high school graduates to obtain a bachelor's degree in criminal justice. Applicants who have successfully completed municipal, state or FBI training may apply for advanced standing.

The Criminal Justice program's foundation is a basic core of 31 credits, which is designed to provide the undergraduate with a thorough understanding of criminal behavior and the entire criminal justice system. Additionally, all criminal justice majors must broaden their knowledge by completing one of the following specializations: Studies in Corrections, Studies in Law Enforcement, Studies in Security: Loss Prevention, Management and Planning or Advanced General Studies in Criminal Justice.

For students specializing in corrections or the advanced criminal justice studies program, there is an internship course under the supervision of the Program Director and qualified field instructors.

Required Courses:

Basic Core

Cj 101	Introduction to Criminal Justice
Cj 200	American Constitutional Law

Cj 201	Criminal Law and Procedure
Cj 270	Issues and Problems in Criminal Justice
So 271	Criminology
So 275	Deviance and Social Control
So 276	Juvenile Delinquency
So 390	Social Statistics
So 391	Methods of Social Research II
Cs 009	Introduction to Data Processing
All University core requirements	

Studies in Corrections

Cj 220	Introduction to Corrections and Correctional Law
Cj 221	The Juvenile Correctional System
Cj 222	The Adult Correctional System
Cj 223	Interviewing and Counseling
Cj 320	Correctional Administration and Management
Cj 321	Probation, Pardon and Parole Procedures and Supervision
Cj 390	Internship

Studies in Law Enforcement

Cj 230	Introduction to Law Enforcement
Cj 231	Police and Society
Cj 235	Arrest, Search and Seizure
Cj 238	Police and Patrol Administration and Management
Cj 330	Police—Community Relations
Cj 333	Investigation
Cj 335	Contemporary Police Issues and Problems
Cj 339	Police Personnel Administration and Supervision

Studies in Security: Loss Prevention, Management and Planning

Cj 240	Introduction to Security
Cj 241	Security Management and Planning
Cj 242	White-Collar Crime
Cj 243	Organized Crime
Cj 340	Industrial Security
Cj 341	Retail Security
Cj 342	Managerial Security
Cj 345	Contemporary Issues in Security

Advanced General Studies in Criminal Justice

No specific courses are required. In this program, students may combine not more than four courses from any other specialization, except with departmental permission. Course of study is created by the student in consultation with his/her advisor.

COURSE DESCRIPTIONS

Anthropology Courses

An 100 An Anthropological Profile of Slavic Culture; The Ukraine, Lithuania and Poland

3 Crs.

Anthropological analysis of Eastern Europe based upon Slavic Culture and the processes that cause this common identity to be one but divergent; the family, religion, politics and economics, within the three major areas of Eastern Europe. Prerequisite: None

An 101 Physical Anthropology

3 Crs.

The origin and evolution of man. Contemporary, theories and developments in genetics, pre-history and cultural differentiation.

An 102 Cultural Anthropology

3 Crs.

Study of the origin and development of human culture. Emphasis is placed upon such areas of cultural expression as language, religion and art as well as cultural change, food acquisition and kinship in primitive societies. Prerequisite: So 101 or An 101.

COURSE DESCRIPTIONS ARE A GENERAL SUMMARY AND ARE SUBJECT TO MODIFICATIONS AND CHANGES.

An 103 Anthropology of a Changing Culture: America Now 3 Crs.

Analysis of the major changes taking place within the dominant American Culture; the family, government, religion, education and economics, with the anthropological implications of these changes as signs for the times and the conclusions indicated by such changes.

An 200 Anthropology of Art 3 Crs.

The study and analysis of art in its full expression—plastic, verbal and performing—as a social barometer on man, in his relationship to self and others and in his behavior both personal and collective.

An 231 Anthropology of the Family 3 Crs.

The study of the family as a social institution, primary and fundamental to all other institutions. Traces the development of familial styles and contrasting patterns throughout man's development. Prerequisite: So 101 and An 101.

Art Courses

Ar 101 Art in the Western World 3 Crs.

A study of the ideas and arts of those cultures that initiate and develop into the Western tradition, presented through selected illustrated examples from ancient to modern periods. Includes an analysis of the basic characteristics of the art and architecture of these eras in the context of general cultural trends.

Ar 104 American Art: Colonial to Modern 3 Crs.

A study of the ideas and ideals in American art in reference to the European mainstream. Emphasis on the styles and forms of the American environment and experience that constitute the characteristic tradition in painting, sculpture and architecture.

Ar 110 Design: Visual Organization 3 Crs.

An investigation of the compositional elements of art structure. Principles of two-dimensional design taught through a series of experimental exercises and applied problems in the visual organization of line, shape, tone, texture and space with emphasis on their value in the communication of ideas.

Ar 111 Design: Color 3 Crs.

Discover and experiment with the interaction of shape, space, light and texture as related to color. A study of the influence of color interaction on color perception and color symbolism with problem emphasis on the creation of space and pattern through value, chroma and intensity control. Prerequisite: Ar 110.

Ar 112 Design: Three-Dimensional Graphics 3 Crs.

Exploration of the fundamental concepts of three-dimensional design. Emphasis on basic problems dealing with mass, volume and planes in space using various materials. Prerequisite: Ar 110.

Ar 120 Drawing I 3 Crs.

An exploration of the fundamental problems of composition and perception as related to drawing. Experimentation with varied media directed toward both the descriptive and expressive visual conceptualization of ideas.

Ar 130 Painting I 3 Crs.

An introduction to painting methods and media. Guided experimentation in several media with emphasis on content, color interaction and properties of the media. Prerequisites: Ar 111 and Ar 120.

Ar 131 Watercolor 3 Crs.

A beginning course dealing with the basic understanding of various techniques and methods of painting with watercolors. Emphasis will be given to the process as it relates to visually defining nature forms, still life, landscape and the human figure. Compositional elements will also be stressed. Prerequisite: Ar 120.

Ar 140 Sculpture 3 Crs.

Investigation of basic sculptural elements, concepts and materials. Emphasis on the aesthetic and structural aspects of three dimensional reality. Prerequisite: Ar 110.

Ar 155 Basic B/W Photography 3 Crs.

A course designed to meet the needs and interests of the beginning photography student. Slides, discussions and darkroom experience covering the camera, F stops, filters, lenses, developing and printing. Experimentation in artificial lighting and special effects, i.e. solarization, texture screens, etc. Prerequisite: Ar 110, art major or permission of the department.

Ar 160 Illustration Methods 3 Crs.

Explores the use of materials and techniques used in graphic illustration for reproduction. Emphasis on effective use of media for development of creative concepts and imaginative ideas. Prerequisite: Ar 220

Ar 201 Studies in Modern Art 3 Crs.

An analysis of the works and questions raised by the arts of the 19th and 20th centuries. The roles of modern artists as they reflect, criticize and project or prophesy on life in the 20th century are emphasized.

Ar 204 Renaissance Art 3 Crs.

A critical discussion of the historical, conceptual and formal changes in the visual arts within the 15th and 16th centuries. Includes an analysis of the influence of Italian and Northern painting on the culture of Europe.

Ar 205 European Art: 17th-19th Century 3 Crs.

A course treating the major developments in painting, sculpture and architecture during the 17th and 18th centuries, as modified by the historical situations and humanistic values in specific countries.

Ar 206 Contemporary Art 3 Crs.

Examines art currently being shown in galleries and museums. Surveys the development of the new approaches to form and analyzes the formal idea as related to execution and content. A study of European and American art from 1920 to the present. Prerequisite: Ar 201.

Ar 210 Design: Letterforms 3 Crs.

Discovery of the expressive and abstract qualities of letterforms. Exploration of their use in illustration and design formats. Experience in creative lettering and calligraphy. Prerequisite: Ar 110.

Ar211 Typography/Layout**3 Crs.**

An introduction to classical and modern letterforms, the mechanics of type composition and the fundamentals of layout. Consideration given to the selection of proper type and layout that enhances the thought and idea and strengthens the visual presentation. Problems dealing with letterforms as design, layout, type specification and indication. Prerequisite: Ar 110.

Ar212 Graphic Processes**3 Crs.**

An exposition of printing methods including various processes in platemaking, die-cuts, embossing, full-color process printing and current technical innovations. Studio experience in the preparation of art copy for the printer, mechanicals, paste-ups and color separations. Prerequisite: Ar 211.

Ar220-221 Drawing II, III**6 Crs.**

Ar 220 is a continuation and expansion of the ideas, techniques and media related to the control of drawing as both analytical and inventive. Development of the student's ability to conceive the figure as form and volume with stress on gesture, proportion and anatomy. Emphasis on a refinement of technique for individual expression and self-awareness. Model fee. Prerequisite: Ar 120.

Ar 221 is an intensive investigation of media and form as related to the figure. Problems progress from structural ideas to more sophisticated exploitation of subject matter and finally to individual interpretation. Model fee. Prerequisite: Ar 220.

Ar 222 Composition and Drawing**3 Crs.**

Analyzing the major areas of composition and drawing. Expanding visual awareness: developing control of drawing as a tool for research and invention. Problems progress from simple structural analysis to more sophisticated exploitation of subject matter and finally to individual interpretation.

Ar 230-231 Painting II, III**6 Crs.**

Ar 230 continues the development of painting techniques in several media with emphasis on pictorial organization and color sensitivity. Focus on development of creativity and individuality including both objective and non-objective processes and concepts. Prerequisite: Ar 130.

Ar 231 is an advanced study toward the development of individual expression. The exploration of independent compositional ideas and technical means related to content. Critiques and evaluations are constant. Prerequisite: Ar 230.

Ar 250 Printmaking: Relief Processes**3 Crs.**

An introduction of the basic graphic processes in printmaking, concentrating on the expressive aspects of various media. Explores the relief processes, including black and color woodcut techniques. Prerequisite: Ar 120.

Ar 251 Printmaking: Silkscreen**3 Crs.**

A study of the processes of serigraphy, including the four basic stencil techniques and their variations: hand cut film, tusche, glue, cut and torn paper. Also included are phototechniques using prepared films and screens. Prerequisite: Ar 111.

Ar 255 Photo Graphics**3 Crs.**

A continuation and expansion of basic B/W photographic techniques in a controlled setting. Covers the use of graphic films, Kodalith, Color Key and silkscreening methods. Photographic images transferred to a silk screen for reproductive purposes will be discussed from both fine art and commercial aspects. Prerequisite: Ar 155.

Ar 260-261 Illustration I, II**6 Crs.**

Ar 260 is an introduction to illustration as a communications medium. Development of effective techniques with emphasis on composition, design and originality. General technical study of the illustration and its related elements to the total format. Fundamental studio problems stressing graphic sensibility related to many levels of communication. Prerequisite: Ar 220.

Ar 261 is a development of the visual communication of ideas with emphasis on the technical and graphic means for conveying visual impact. Expanded technical usage of full color, line and halftone methods of illustration. Problems and assigned projects related to individual interests. Prerequisite: Ar 260.

Ar 264 Advertising Illustration**3 Crs.**

Deals with the imparting of visual impact and excitement for the selling of products and services. Developing and finishing illustrations for advertising with consideration for reproduction requirements. Problems dealing with line, black and white, limited and full color advertising. All media. Prerequisite: Ar 261.

Ar 270-271 Graphic Design I, II**6 Crs.**

Ar 270 focuses on the application of design principles as related to visual communication. Includes the development of layout techniques, paste-ups, typographic design, illustration and photography as related to print media, package design, publication design, corporate identity systems, etc. Emphasis on the ability to create effective problem solving concepts. Prerequisite: Ar 212.

Ar 271 develops the ability to solve specific design problems in all areas of visual communication. Establishing the idea from rough layout to tight comps and coordinating the elements to create effective visual statements. Prerequisite: Ar 270.

Ar 320 Drawing IV**3 Crs.**

Advanced problems of perception, structure, anatomy and concepts in drawing the human figure. Focus on independent development of the expressive use of various drawing media. Model fee. Prerequisite: Ar 221.

Ar 330 Painting IV**3 Crs.**

Studio emphasis on the development and clarification of personal and imaginative statements. Initiative and discipline toward the production of a sustained body of consistent work is expected. Includes the development of an independent painting project. Prerequisite: Ar 231.

Ar 360 Illustration III**3 Crs.**

An advanced series of studio problems related to the student's specific area of illustration. Emphasis on solutions both practical and relevant to professional needs and demand. Assignments are geared for application to the student's portfolio. Prerequisite: Ar 261.

Ar 363 Editorial Illustration 3 Crs.
Illustration in conjunction with the short story. Preparation of idea sketches in relation to the text and page layout. Presentations include finished illustrations, a resume of the text and a layout of text and illustrations. Prerequisite: Ar 261.

Ar 364 Advanced Advertising Illustration 3 Crs.
Complex problems dealing with interpretation and clarity in the visual communication of ideas. Advanced problems involving illustrative drawing and complete layout for booklets, brochures and direct mail in black, white and color. Prerequisite: Ar 264.

Ar 370 Advanced Graphic Design 3 Crs.
An in-depth investigation of realistic promotional programs ranging from concept to finished visual. Emphasis on individual creative solutions relative to product and idea, budget and client. Prerequisite: Ar 271.

Ar 390 Portfolio Preparation 3 Crs.
Development of a graduate portfolio geared toward the professional goals of the student. Includes an inventory of past assignments and suggestions for complementary ones. Guidance from faculty and visiting professionals.

Ar 391 Senior Project 3 Crs.
An in-depth study for painting majors. Encompasses problem solving and technique indicative of the ability to work as a mature and independent artist.

Ar 399 Independent Study 1-3 Crs.
Individual problems performed in a classroom or private studio. Students must have completed the most advanced course in the area selected for independent work. Admission arranged in consultation with faculty.

Communication Courses

Ca 021 Effective Communication 3 Crs.
An exploration and analysis of total communication process (source, message, channel, receiver), through instruction and practice in individual self-expression as well as interpersonal activity sessions, small group communication exercises and oral interpretation of literature.

Ca 121 Advanced Effective Communication 3 Crs.
This course is designed for the student who wishes to expand and refine the composition and presentation skills mastered in Ca 021. It affords the student opportunities for guided experimentation in those speech situations pertinent to his needs (i.e. business, education, law, politics, etc.) Prerequisite: Ca 021.

Ca 131 Interpersonal Communication 3 Crs.
The goal of this course is to improve the student's ability to communicate. Recent research to be covered deals with communication models, transactional analysis, communication games, breakdowns and barriers, non-verbal communication, group communication and audience analysis.

Ca 141 Introduction to the Theater 3 Crs.
A survey course which introduces the student to the theater as a form of literature, as a performing art and as a profession. Students will be required to act in or work behind-the-scenes on a departmental production as part of their semester course work. The class will attend performances of plays at various professional, university and/or community theaters. Several plays will be read and discussed. Short papers required.

Ca 151 Story Theater 3 Crs.
This course focuses on the art of storytelling, where acting began. Through the playing of theater games, the participants develop such basic performance skills as concentration, relaxation and spontaneity. These skills are then applied to both scripted and nonscripted material; short stories, fairy tales, myths, poetry and material created by the participants themselves through improvisation. Music, dance and mime will be included in performance whenever possible. Prerequisite: Ca 021 or permission of instructor.

Ca 161-162 Theater History I, II 6 Crs.
Ca 161 is a survey of theatrical and dramatic history from the Greeks to the end of the 17th century. Ca 162 focuses on the theatrical and dramatic history from the end of the 17th century to the present. The course sequence examines the evolution to the various elements of play production, theater architecture and the stage, costumes, scenery and lighting, acting and directing, music and dance, theater management and the audience. Oral reports and a research paper are required. Prerequisites: Ca 021, En 012 or permission of the instructor.

Ca 171-271 Acting I, II 6 Crs.
Ca 171 explores the actor's "instrument"; body, voice, thoughts and feelings. Basic physical and vocal work including exercises in relaxation, flexibility, concentration, alignment, centering, breathing and sound. Theater games designed to free the actor's imagination and to develop his improvisatory skills. Prerequisite: Ca 021 or permission of instructor.

Ca 271 is a continuation of the work begun in Ca 171, and its application to the process of scene study and the building of characters. Attention given to script analysis, rehearsal techniques and selected special problems such as Shakespeare, acting styles and auditioning. Prerequisite: Ca 171 or permission of instructor.

Ca 181 Fundamentals of Dance 1 Cr.
A dance class concentrating on several areas of movement, including tap and jazz, modern dance and improvisational theater movement. The course will focus on "the dance" as a means of both personal and theatrical expression and fulfillment. Some aspects of choreography will also be included.

Ca 221/Bu 221 Business Communication 3 Crs.
A course in the practice of oral and written communication skills as they apply to the corporate level of business. Students will be required to do public speaking; memo, letter and report writing; group communication projects; analysis of communications; and resume writing and interview preparation. Recommended Prerequisites: En 011, En 012 and Ca 021. Students with the prerequisites will have priority in admission to the course.

Ca 261 Public Speaking 3 Crs.

A performance course in the organization and delivery of the extemporaneous speech to inform and persuade, stressing selection, analysis, organization, evaluation and communication for constructive influence in speech situations.

Ca 270 Nonverbal Communication 3 Crs.

This course seeks to familiarize students with the means by which we consciously and unconsciously communicate without words. Relevant research covered in this course includes proxemics, gestures, expressions, object language, touch, signs and other aspects of nonverbal communication.

Ca 273-274 Drama Workshop 6 Crs.

The Drama Workshop produces three to five presentations on campus per year. The productions are wide-ranging in period, style and genre.

Ca 275-375 Drama Practicum 6 Crs.

The Drama Practicum offers students on-location experience at a professional theater. Advanced students may serve as understudies for professional actors.

Ca 280 Oral Interpretation of Literature 3 Crs.

An introduction to the study of literature from the viewpoint of the oral reader. Theories of criticism and aesthetics as well as study of voice and communication are fused into the re-creative art of oral interpretation.

Criminal Justice Courses

Cj 101 Introduction to Criminal Justice 3 Crs.

A basic course designed to provide the student with an overview of the criminal justice system and its processes. The system is studied as a total interacting body: police, parole, probation, law enforcement, courts, corrections and diversion programs. Prerequisites: So 101 and Ps 101.

Cj 200 American Constitutional Law 3 Crs.

The development of the Constitution through interpretations of the Supreme Court. A study of civil rights and civil liberties. Prerequisite: Cj 101.

Cj 201 Criminal Law Procedure 3 Crs.

Substantive aspects of criminal law emphasizing statutory criminal law against background of common law. Examination of the purpose and goals of criminal law and a study of the historical development of its basic concepts. Prerequisite: Cj 101.

Cj 210 Family Law 3 Crs.

This course will cover the legal entanglements in which people find themselves and will consider the rights of middle and lower income groups. Topics will include support obligations, legal positions of married women, abuse of women and children, legal disability of minors, divorce, alimony, support and custody procedures, separation agreements and adoption. Prerequisite: Cj 101.

Cj 211 Women and the Law 3 Crs.

The course will trace the development of sex discrimination as a legal and social phenomenon. The law will

be covered in terms of its historical perspective, including the reforms of the late 19th century and the right to vote legislation of 1920. Particular emphasis will be placed on the developments of the 1960's and 1970's with respect to constitutional law, employment and employee benefits, education, criminal and family law and reproductive freedom (contraception, abortion and sterilization). Prerequisite: Cj 101.

Cj 220 Introduction to Corrections and Correctional Law 3 Crs.

This course acquaints the student with the entire concept of corrections, including the historical development of control of human behavior in society, the present day concerns of rehabilitation of felons and misdemeanants, including supervised probation, institutionalization, parole and other release procedures. Treatment approaches in corrections for adults and juveniles, private correctional organizations and correctional administration are included to help students to determine whether corrections may offer them a rewarding career. A study of the principles and practices of law as it applies to those persons confined in city, county, state and federal detention facilities. Established guidelines as set forth by the U.S. Supreme Court decisions are covered. Prerequisite: Cj 201.

Cj 221 The Juvenile Correctional System 3 Crs.

This course includes a survey of juvenile correctional institutions. Community treatment programs and juvenile probation and after care are included. Prerequisites: Cj 220 and So 271.

Cj 222 The Adult Correctional System 3 Crs.

This course includes a survey of adult correctional programs. Probation and parole service along with Board of Pardon and Parole are included. Prerequisites: Cj 220 and So 270.

Cj 223 Interviewing and Counseling 3 Crs.

Practice oriented course designed to provide the student with the basic techniques of counseling, as well as with an understanding of the structure and development of the counseling process. Prerequisite: Cj 200.

Cj 230 Introduction to Law Enforcement 3 Crs.

This course acquaints the student with the law enforcement system in the United States. The course includes police activities and their relationship to the criminal justice system. Prerequisite: Cj 201.

Cj 231 Police and Society 3 Crs.

Sociological study of the role of police in society. The law enforcement system, functions and dysfunctions of society. Problems of social control and law enforcement in a complex pluralistic society. Prerequisites: Cj 270 and Cj 230.

Cj 235 Arrest-Search-Seizure 3 Crs.

An in-depth discussion of the arrest powers held by various criminal justice personnel. Issues to be analyzed include the meaning of arrest, the use of force during an arrest and the rights of the arrestee. An examination of the major principles of search and seizure will also be included in the course. Topics to be

covered include application of the principles, admissibility and non-admissibility of evidentiary offerings, analysis of the underlying reasons for evidence's admission or exclusion and investigation of the necessity of the rules of evidence in the field of criminal justice.

Cj 238 Police and Patrol Administration and Management 3 Crs.

A detailed examination of the unit of government. Formulation of policies, practices and procedures for the internal and external direction and control of the law enforcement agency are emphasized. A study of patrol as the basic function of police operations. The responsibilities, purposes, methods, types and procedures of patrol. The administration of the patrol service, determination of patrol complement and assignment. Elements of protection of life, preservation of property and suspension of crime. Prerequisites: Bu 201 and Cj 230.

Cj 240 Introduction to Security 3 Crs.

A discussion of the historical, theoretical and legal basis of security including the purpose of security in modern society, ethics and security, standards and goals for the security industry. Prerequisite: Cj 101.

Cj 241 Security Management and Planning 3 Crs.

A survey of managerial techniques, theories and planning strategies relevant to the security industry. Prerequisites: Cj 240 and Bu 201.

Cj 242 White-Collar Crime 3 Crs.

This course is designed to introduce students to the criminal activity popularly known as white-collar crime. Through discussion of the parameters and magnitude of white-collar crime and of the literature that has been proffered as explanations for it, the student will be introduced to the "role" of white-collar crime in modern society. Prerequisite: Cj 241.

Cj 243 Organized Crime 3 Crs.

In this course the historic roots of organized crime, the casual factors of organized crime in American society, the activities, organization and economics of organized crime, the problems of corruption and graft and the development of strategies to control the activities of organized crime will be discussed. Prerequisite: Cj 241.

Cj 270 Issues and Problems in Criminal Justice 3 Crs.

Description and analysis of crucial issues and problems relating to selected structures and processes in the criminal justice system. Review and analysis of recent studies concerning criminal justice. Prerequisite: Cj 201.

Cj 320 Correctional Administration and Management 3 Crs.

A study of the principles and practices applied to administration and management within the field of corrections. Investigation of interrelationship between organizational behavior and treatment programs. Examination of factors involved in correctional decision-making and innovative management techniques through lectures and readings. Prerequisites: Bu 201 and Cj 220.

Cj 321 Probation, Pardon, and Parole Procedures and Supervision 3 Crs.

This course is designed to teach the application of probation, pardon and parole methods for both juveniles and adults. An analysis will be given of the most effective methods and techniques as they apply to these services.

Historical and philosophical overview of the theories behind diversion from the criminal justice system, the legal framework, critical appraisal of alternative community treatment programs, analysis and evaluation of the correctional process. Prerequisite: Cj 320.

Cj 330 Police-Community Relations 3 Crs.

The role of the individual officer or agent in achieving and maintaining positive public response, intergroup relations and public information. Prerequisite: Cj 231.

Cj 333 Investigation in Law Enforcement 3 Crs.

A study of investigative techniques and an analysis of the relationships of investigative units with other law enforcement units and agencies, sources of information, methods of surveillance, preliminary and follow-up investigation and preparation and presentation of comprehensive reports of investigation. Prerequisite: Cj 235.

Cj 335 Contemporary Police Issues and Problems 3 Crs.

A seminar concerning the identification and understanding of police problems in modern law enforcement. Prerequisite: Cj 231.

Cj 339 Police Personnel Administration and Supervision 3 Crs.

A study of the procedures and techniques related to selection, placement, classification, pay, evaluation and discipline of police personnel. Detailed discussion of the responsibilities of first-level supervisors in management including employee motivation and morale, employee relations, employee health and safety, work analysis and grievance procedures. Prerequisites: Bu 207 and Cj 238.

Cj 340 Industrial Security 3 Crs.

A discussion of security techniques, theories, legal questions and managerial problems as they relate to the manufacturing, industrial and corporate business establishment. Prerequisite: Cj 241.

Cj 341 Retail Security 3 Crs.

A study of the responsibilities and operations of security departments in retail settings. Topics include dishonest employees, shoplifters, management and public relations, special laws and procedures, security surveys and loss prevention management. Prerequisite: Cj 241.

Cj 342 Managerial Security 3 Crs.

A survey of the procedures for handling and control of classified and sensitive information. Included in discussions will be an examination of the role of data processing, background investigations of managerial personnel and government mandated security procedures in the security industry. Prerequisite: Cj 241.

Cj 345 Contemporary Issues in Security 3 Crs.

A discussion of the dynamic nature of the security industry. Prerequisite: Senior standing.

Cj 390 Internship**6 Crs.**

Prerequisite: Senior standing and permission of the department.

Education Courses

Ed 101 Educational Psychology**3 Crs.**

An introductory course that considers the application of psychological principles to educational theory and practice. It includes a systematic study of the process of learning, transfer of knowledge, individual differences, motivation, measurement and evaluation, insofar as these factors influence the teaching process.

Ed 152 Education in the United States**3 Crs.**

An introduction to the historical, philosophical and sociological foundations underlying the development and organization of education in the United States.

Ed 181 Principles and Foundations of Bilingual-Bicultural Education**3 Crs.**

History and philosophy of bilingual-bicultural education in the U.S.A. up to the present, its nature and objectives, legal and constitutional aspects. Analysis of the various dimensions of B.B.E. such as enrichment program, a restorative program, a compensatory program. Study of current research on B.B.E. and a review of its effectiveness in the school system.

Ed 202 Developmental Psychology for Teachers**3 Crs.**

A study of developmental changes in the total life span of the normal person and the application of this knowledge to the teaching process.

Ed 203 Personal Effectiveness Training**3 Crs.**

This course deals with various models of interpersonal relations as they affect the success of helper-helpee relationships. Self-awareness, verbal and non-verbal communication and other interactive techniques are explored to promote positive results with young people.

Ed 221 Methods of Teaching Reading and Language Arts**6 Crs.**

A study of methodology in the areas of reading instruction and language arts. Field experience is an integral part of this course.

Ed 222 Methods of Teaching Mathematics, Science and Social Studies in the Elementary School**6 Crs.**

Includes the techniques of teaching mathematics, science and social studies. Field experience is an integral part of this course.

Ed 224 Workshop in Creative Art in Early Childhood**3 Crs.**

This is a "hands-on" workshop focusing on the development of an experience-centered art program for children in preschool and early elementary programs. Other art forms, such as music and theater, will be included by a team of instructors. Emphasis is placed on the appropriateness of teaching techniques and their relationship to the stages of development of children from birth to age six. Prerequisites: Ed 101 and Ed 152.

Ed 247 Methods of Teaching Music in the Elementary School**3 Crs.**

A course designed to provide the classroom teacher with the knowledge and basic skills for teaching music in the elementary schools.

Ed 246 Methods of Teaching Art in the Elementary School**3 Crs.**

A course that gives experience in artistic expression in basic art media in the elementary schools and the techniques of teaching art.

Special Methods of Teaching Secondary School Subjects

Methods of teaching specific subjects are offered in the following areas:

Ed 248 Teaching the Visual, Auditory and Physical Arts**3 Crs.**

This course is a discovery of the self as expressed in art, music and physical education. Students design centers in the elementary school classroom for the visual, musical and physical arts. Special focus is placed on the study of the brain and creativity.

Ed 255 Methods, Materials, and Strategies in Teaching English as a Second Language**3 Crs.**

This is a practical workshop for the teaching of English to those having another language dominance. Students will become acquainted with a wealth of resource materials and be assisted in creating their own methods, materials and strategies.

Ed 260 Teaching Remedial Writing**3 Crs.**

Diagnostic and remedial strategies for written communication. Special focus is placed on remediation of the student's own writing skills.

Ed 261 General Methods of Teaching in the Secondary School**6 Crs.**

A comprehensive study of the principles, methods, and materials for teaching in the junior and senior high schools. Field experience is required.

Ed 262 Methods of Teaching English in the Secondary School**Ed 263 Methods of Teaching History and Social Studies in the Secondary School****Ed 264 Methods of Teaching Spanish in the Secondary School****Ed 265 Methods of Teaching Business in the Secondary School****Ed 266 Methods of Teaching Mathematics in the Secondary School****Ed 267 Methods of Teaching Science in the Secondary School****Ed 341 Reading Problems of School Children****3 Crs.**

An analysis of diagnostic corrective techniques in reading instruction of elementary school children, including in-school application of such procedures.

Ed 342 Teaching Reading in the Secondary School**3 Crs.**

A study of diagnostic techniques for teaching reading to secondary school students.

Ed 380 Teacher Effectiveness in the Multicultural Classroom**3 Crs.**

An experimental workshop in which teachers explore their attitudes toward ethnic groups and practice strategies for curriculum development and effective teacher-student interaction in the multicultural classroom.

Ed 391 Student Teaching Seminar—Elementary**9 Crs.**

This seminar which meets weekly in conjunction with the full-time student teaching assignment, focuses on the teaching-learning process as it is being experienced in the elementary school. Stages of concern provide the developmental framework. Related issues such as teacher competencies, evaluation, supervision, and self-assessment, curriculum planning, implementation, evaluation, and situational topics are explored. Audio-visual tapes of the pre-service teacher's lessons are reviewed. Career and job placement opportunities are explored and promoted.

Ed 395 Student Teaching Seminar—Secondary**9 Crs.**

This seminar which meets weekly in conjunction with the full-time student teaching assignment, focuses on the teaching-learning process as it is being experienced in the secondary school. Stages of concern provide the developmental framework. Related issues such as teacher competencies, evaluation, supervision, and self-assessment, curriculum planning, implementation, evaluation, and situational topics are explored. Audio-visual tapes of the pre-service teacher's lessons are reviewed. Career and job placement opportunities are explored and promoted.

Ed 399 Independent Study**3-9 Crs.**

Directed individual study of an approved specific problem or special topic not covered by or that goes beyond the scope of regular course offerings.

English Courses

En 005-006 Freshman Rhetoric: College English for Foreign Speakers**6 Crs.**

Designed to aid the non-native speaker in augmenting fluency in oral and written English. Needs will be assessed, and each student will receive instruction based on his particular needs.

En 009 Reading Improvement and Study Skills**3 Crs.**

A college skills course focused on developing more efficient study and reading techniques. Study skills will include previewing through reviewing of courses, texts, and tests. Improved reading comprehension, speed and vocabulary will be emphasized within a reading laboratory setting.

En 010 Basic Studies: Reading and Writing Skills**6 Crs.**

Within a workshop atmosphere, students receive intensive instruction in basic skills. The course provides practice in strengthening the student's reading, writing and study skills which will be needed for all college level work.

En 011 Freshman Rhetoric: Shorter Forms**3 Crs.**

A systematic and practical introduction to the techniques of effective writing. The course stresses the rudiments of traditional rhetoric and provides supervised practice in writing of essays.

En 012 Freshman Rhetoric: Longer Forms**3 Crs.**

A continuation of En 011. This course deals especially with the writing of argumentative-expository essays and the application of advanced rhetorical principles. Training in basic research methods is stressed.

En 091-092H English Honors Seminar**6 Crs.**

This freshman honors seminar combines the studies of oral and written English. Emphasis is placed on expository writing and the discussion and synthesis of themes and concerns fundamental to suggested supplementary readings. En 091 explores the total oral communication process (source, messages channel, receiver) through instruction and practice in individual self-expression as well as interpersonal activity sessions. By permission of the department only.

En 092 is a continuation of En 091. The seminar studies the research process and culminates in a long research project. The oral component is also continued and students are provided with practice in oral interpretation of literature as well as group communication situations. By permission of the department only.

Upon successfully completing En 091 and En 092, the Ca 021 requirement is waived.

En 102 The Experience of Literature**3 Crs.**

This course, designed for the freshman as a general elective, has special topics which vary each time it is offered.

En 170-179 Studies in Writing: Special Topics**3 Crs.**

A series of courses designed to meet the multitude of writing needs demonstrated by students in a variety of majors. Courses include writing of poetry, short story, fiction, non-fiction, free-lance writing, corporate writing, journalism, etc.

En 201 Masterpieces in Literature**3 Crs.**

A course designed for general electives at the sophomore level. Description varies each time it is offered.

En 206 Studies in Language: Special Topics**3 Crs.**

Topics vary each time the course is offered. Examples: language and human behavior, language and culture, language and politics, non-verbal communication, language and sex, language pollution, euphemism, contemporary language, verbal obscenity, language and advertising, language and prejudice, language and the media, metaphors and thought, psychology and language.

En 207 Studies in Language: Introduction to English Language Study 3 Crs.

A survey of the major changes in structure, vocabulary and uses of the language from the earliest times to the present. This course will also present the more important findings of modern linguistic scholarship. Required for secondary education.

En/Ms 214-314 News Writing and Reporting Workshop I, II 6 Crs.

An introduction to the basic news writing and journalistic reporting principles. Concepts of journalism will provide a format for an analysis of the news media and responsibilities of a journalist in today's society. The workshop sessions attempt to utilize the concepts in practical work. In the second semester students write and edit an issue of the *Obelisk*, campus newspaper.

En 230-239 Studies in Drama: Special Topics 3 Crs.

The focus and content of the course vary each semester but a given semester may involve itself with a study of American drama, modern drama (1850-present), theater of the absurd, classical Greek drama, comedy, tragedy, Elizabethan/Jacobean drama, period courses or a specific dramatist or theme. The course studies plays as literature meant for stage production. Prerequisite: En 012.

En 250 Literature in a New Land: Early American Writing 3 Crs.

From Plymouth Rock and Salem streets to Catskill Mountains, American creativity burgeoned as it was released from narrow religious bonds. A study of the witch trials gives insight into early New England culture which often nursed superstition while denying creative output. A study of the native American Indian literature reveals another important aspect of our literary tradition.

En 255 Early American Black Literature 3 Crs.

A consideration of Afro-American literature from 1790 to 1900, including the slave narratives, the mockingbird school and folk poetry.

En 256 The Flowering of New England 3 Crs.

The darkness and mystery of both human motivation and nature itself occupied American writers of the 19th century. Primitive beginnings in a sometimes savage new land finally produced literature of profound psychological depth which strangely presages much of the post-Freudian, post-Nietzschean literature of this century. Emphasis on Poe, Hawthorne and Melville.

En 257 From Dickinson to Eliot: Out of the Woods and into the Wasteland 3 Crs.

A study of writers from Dickinson to Eliot reveals much about the emergence of characteristically American styles and concerns. Defines the problems caused by the exhaustion of our frontier and the emergence of the modern world, a world which, magnified by the first global war, produced the writers of the wasteland, the "lost generation."

En 258 From Faulkner to the Present 3 Crs.

Modern American literature in content and technique reflects 20th century preoccupation with the loss of faith in an omniscient creator and the rise of individual consciousness, each a creator and center of a world isolated from all other worlds. Current developments in American literature indicate that authors have begun to devise myriad, often amusing, ways to overcome the dilemma of radical alienation.

En 265 Shakespeare 3 Crs.

The course explores a wide variety of Shakespeare's plays from a literary perspective, emphasizing the development of Shakespeare as a dramatist as well as relating the plays to their historical and cultural context in Elizabethan England. Prerequisite: En 012.

En 270-279 Studies in Writing: Special Topics 3 Crs.

A series of courses designed to meet the multitude of writing needs demonstrated by students in a variety of majors. Courses include writing of poetry, short story, fiction, non-fiction, free-lance writing, corporate writing, journalism, etc.

En 280-289 Studies in World Literature: Special Topics 3 Crs.

Course description varies each time the course is offered.

En 310 British Literature to 1603 3 Crs.

An historical and chronological study of major works of British poetry and prose, beginning with Old English and *Beowulf*, through the literature of the Middle Ages with special emphasis on Chaucer, and on to the Elizabethan poets, such as Wyatt, Surrey, Sidney, Raleigh and the poetry of Shakespeare. Some drama, exclusive of Shakespeare, will be included.

En 312 Seventeenth Century British Literature 3 Crs.

As writer Douglas Bush notes, at the beginning of this time period we find English writers with one foot in the medieval world, but by the end we see that they have one foot set in the modern world. The major concentration in this course will be on the works of Jonson, Donne, Herbert, Marvell, some of the lesser Metaphysical and Cavalier poets, and Milton. Prose writings of Browne, Burton and Bunyan will also be dealt with.

En 313 Restoration and 18th Century Literature 3 Crs.

The shock of the English Civil War reverberated through this period, and we can see that much of the literature of this time reflects the desire to hold society together by manners, the power of reason and balance. But this was also an age of great satire and the stirrings of what comes to be known as "Romanticism." The major concentration will be on the works of Dryden, Pope, Swift and Johnson, but there will also be coverage of the Restoration dramatists (Congreve, Etherege, Wycherley) and the early novelists (Defoe, Richardson, Fielding).

En 314 The Romantic Period in British Literature 3 Crs.

Romanticism is a difficult word to define, but by studying the works of Blake, Wordsworth, Coleridge, Byron, Shelley and Keats we may not only get closer to what this word means but also note how intimately the con-

cerns of these poets are our own. And this age does not only belong to these figures: studying the early works of Austen, Scott and Carlyle reminds us how often Romanticism and the reaction against Romanticism go hand in hand.

**En 315 The Victorian Period
in British Literature**

3 Crs.

A study of a period of such variety that it ranges from George Eliot to Lewis Carroll, from John Henry Cardinal Newman to Oscar Wilde. Exploration of the variety of literature represented by Tennyson, Browning, Arnold, Dickens, Eliot, Newman, Ruskin, Pater, Swinburne and others, with concentration on the root issues of modernism developing behind the facade of Victorian "respectability" and "progress."

**En 316 Twentieth Century
British Literature**

3 Crs.

A period in which the artist, a product of middle class society, was often at war with that society, as in form and substance he explored ways of creating a self that transcended the traditional definitions that society imposes. Hardy, Hopkins, Shaw, Conrad, Woolf, Yeats, Wharton, Joyce, Lawrence, Eliot, Beckett and others with emphasis placed on the "classical" texts of modern literature.

**En 320-329 Studies in Poetry:
Special Topics**

3 Crs.

Course description varies each time the course is offered.

**En 340-349 Studies in Fiction:
Special Topics**

3 Crs.

Course description varies each time the course is offered.

**En 370-379 Studies in Writing:
Special Topics**

3 Crs.

A series of courses designed to meet the multitude of writing needs demonstrated by students in a variety of majors. Courses include writing of poetry, short story, fiction, non-fiction, free-lance writing, corporate writing, journalism, etc.

En 375 Advanced Composition

3 Crs.

An advanced expository writing workshop. The course stresses the discipline of researching, writing, editing, revision and meeting specific deadlines. The procedures of the class include an involvement in class discussions on strategies of writing, participation in a one day a week writing workshop and completion of all the assigned writing tasks.

**En 384-385 Studies in Black
Literature: Special Topics**

3 Crs.

A detailed study of such black authors as Hughes, Wright, Ellison, Brooks, Baldwin and Baraka and others with attention to selected themes in four genres.

En 386 Black Writers in America

3 Crs.

A consideration of black writers from Dunbar and Chesnut to the present. Study of Harlem Renaissance writers, Wright, Ellison, Hayden, Brooks, Tolson, Baldwin, Baraka and the Black Arts Movement. Some attention will be paid to the relation of the works to traditional images of blacks in America and to themes found in American literature as a whole.

En 387 Children's Literature

3 Crs.

A survey of children's literature, including an introduction to the mythology and folklore of the world. Consideration will be given to techniques of motivating children to enjoy stories. Enrollment limited to students preparing to be elementary teachers.

En 388 Young Adult Literature

3 Crs.

A survey of adolescent and young adult literature, including an introduction to the mythology and folklore of the world. Consideration will be given to the techniques of teaching literature to young people. Enrollment limited to students preparing to be middle and senior high school teachers.

**En 390 Studies in Literary
Criticism: Special Topics**

3 Crs.

Course description varies.

En 391 Departmental Seminar

3 Crs.

Advanced literary studies on a particular subject to be announced by bulletin prior to registration for the semester in which it is offered. Typical subjects include satire, Dickens, contemporary literature, etc.

En 398 Independent Study

1-3 Crs.

Work on a special topic to be arranged with an instructor who will direct this work. Permission of the department chairman will be granted to qualified English majors on the basis of a written prospectus. By special arrangement.

En 399 Honors Seminar

3 Crs.

Open to qualified seniors by invitation of the department of English. The aim of the course is to enable students to synthesize their understanding of English and American Literature through the study of selected problems in literature and literary criticism.

History Courses

Hi 001 Western Civilization to 1715

3 Crs.

A basic survey which seeks to explain the religious, intellectual, social and economic evolution of Western civilization.

**Hi 002 Western Civilization
Since 1715**

3 Crs.

Continuation of Hi 001. The course presents the major historical trends in the 18th, 19th and 20th centuries.

Hi 121 United States History to 1865

3 Crs.

A survey of American development from the period of exploration to the conclusion of the Civil War. Major themes include the development of colonial society, the American Revolution and emergence of distinctive nationhood, 19th century expansion and economic growth, slavery and the War for the Union.

**Hi 122 United States History
since 1865**

3 Crs.

An analysis of the period of Reconstruction: industrial expansion, transportation, agriculture, labor and finance. Place of the United States among nations, World War I, Depression, New Deal, World War II and post war to the present.

Hi 128 the History of American Business Enterprise**3 Crs.**

An examination of the growth and development of business enterprise in America from early colonial times to the present. Topics receiving special consideration include the role of the entrepreneur, the evolution of business specialization, the rise of the corporate form and of "big" business, notable innovations in management and marketing, the interplay of business enterprise and other aspects of American society.

This course should be especially useful to business majors and to all students interested in a fascinating and vital aspect of the American experience.

Hi 201 Historical Method and Criticism**3 Crs.**

An introduction to the problems of understanding and explanation in history, and to the history of historical writing. Aids to research, techniques and methods employed by historians and experience in textual criticism.

Hi 207 France Since the Revolution**3 Crs.**

An explanation of the enlightened philosophy of the Revolution and its effect on the peoples of France. The rise and decline of the Napoleonic Empire. A study of the various republics down through de Gaulle.

Hi 209 Imperial Spain and Latin America**3 Crs.**

Beginning with its roots derived from the historical traditions of Imperial Spain and Spanish America, the course traces the development of Latin America. It covers such diverse topics as politics, religion, society and culture.

Hi 213 Europe Since 1815**3 Crs.**

A study of the continent of Europe in the world community during and after the two world wars.

Hi 214 French Revolution and Napoleon**3 Crs.**

A course designed to trace the path of the French Revolution from its origins through each of its political phases from 1789 to 1799. It culminates with the rise of Napoleon Bonaparte, his achievements and failures and the end of the Empire in 1815.

Hi 216 Princes to Peasants**3 Crs.**

An in-depth approach to the changes within European society from the 16th to the end of the 19th centuries. Its main focus is the values and lifestyles of the various European classes such as nobility, bourgeois, working class and peasantry.

Hi 217 Twentieth Century Europe**3 Crs.**

This course treats the tensions and changes within Europe from the beginning of the 20th century to the present day. Its subjects include the challenges of two major world wars, the struggle for democracy between 1919 and 1939 and the rise of new political ideologies.

Hi 224 Southern United States History**3 Crs.**

A survey of the economic, social and political history of the South with emphasis upon the rise of the plantation system, the institution of slavery, emergence of Southern nationalism and the causes of the Civil War. Also, an intensive study of the changes which have oc-

curred since Reconstruction, including the Populist revolt, industrialization, urbanization and the racial revolution.

Hi 225 Afro-American History**3 Crs.**

A study of the African heritage of Afro-Americans, the forced migration of African multitudes to America, the condition and nature of their servitude, the development of abolitionism culminating in emancipation, the twilight zone of freedom, the growth of civil rights and black power movements and an analysis of the psychic and cultural implications of racism.

Hi 228 The Immigrant Experience**3 Crs.**

A comparative, historical study of American immigration, focusing on the motives for immigration, patterns of settlement, adjustment and subsequent generational experience of successive immigrant groups.

Hi 231 Russia and the USSR**3 Crs.**

A study of the political, social, economic and cultural development in Russia with emphasis on the Revolution and those events and doctrines which have shaped the Soviet Union.

Hi 232 Lithuanian History and Culture I***3 Crs.****Hi 233 Modern Lithuanian History and Culture****3 Crs.**

Deals with the reawakening of national consciousness and the establishment of a modern republic in 1918, the structure and destiny of that republic and current trends of sovietization, russification and dissident activity. Lithuanian artists from current Lithuania and in exile as well as their specific works will be studied. Particular attention will be given to artists whose works have served to define or display the modern culture as developed from an ancient tradition of folk art and belief.

Hi 234 Polish History and Culture I**3 Crs.**

A course in the history of Poland from the earliest times until the partition of the country in the 18th century. The political and cultural development of Poland during its centuries of greatness and the major role played by the country in European civilization will receive special emphasis.

Hi 235 Modern Polish History and Culture***3 Crs.****Hi 236 History of the Arab World I: From Muhammad to the Ottoman Empire****3 Crs.**

A study of the rise of Islam and the emergence of the Arabs as a world power. Discussion will focus on the achievements of Muhammad, the institution of the caliphate, the Umayyad and Abbasid empires, the Crusades and the decline of Arab influence in the Near East under the pressure of Turkish expansion.

Hi 238 The Modern Arab World***3 Crs.****Hi 243 World War I and World War II*****3 Crs.**

Hi 252 The Middle Ages**3 Crs.**

The development of European history from the 4th to the 14th century. The topics include the birth of the Middle Ages, Christianity, Byzantine, Islamic and Carolingian Empires. Feudalism, the Crusades and the growth of national states.

Hi 254 The Renaissance and Reformation**3 Crs.**

A study of the transition from medieval to modern society through the investigation of the political, social, economic, religious and cultural factors involved in the change.

Hi 258 The Radical Vision in Europe: From Community to Anarchy**3 Crs.**

Religious visionaries, utopian socialists and political anarchists are encountered in this course which discusses individuals and groups from the 17th to the 20th centuries which sought alternative communities or completely rejected Europe's traditional order.

Hi 264 The British Empire and Commonwealth**3 Crs.**

The evolution of the British Empire and Commonwealth from the American Revolution to the present, the fall of the old colonial system, the free trade movement, the growth of the Dominions, relations with India and the Empire and Commonwealth in recent years.

Hi 265 Modern England 1485 to the Present**3 Crs.**

A study of transformation of England from an agrarian, aristocratic society in the 16th century to an industrial democracy in the contemporary world.

Hi 267 Irish History and Civilization**3 Crs.**

Ireland has one of the oldest civilizations in Europe, a land of myth and history echoing with the words of her great poets, playwrights, statesmen and novelists. It is the root place where many go to trace their ancestral heritage. The history will be traced from the beginning down to the Act of Union, 1800.

Hi 268 Irish History and Civilization**3 Crs.**

The course will start at the beginning of the 19th century and continue down to the present. Emphasis will also be placed on the Irish in the world, but especially their influence on the United States.

Hi 269 The Irish in the U.S. and in the World**3 Crs.**

This course will delineate the influence of the Irish in the American Revolution and in the Civil War, the influence of Irish Americans in Ireland and the part played by the Irish in France, Spain, Australia, South America, etc.

Hi 271 American Colonial Foundations (1607-1783)**3 Crs.**

A study of the development of American society with emphasis on the political, social and economic problems which led to the American Revolution, and the further problems created during the Revolutionary War.

Hi 272 The New Nation (1783-1877)**3 Crs.**

The achievement of national government, the development of political parties and political democracy, social, political, economic and cultural developments of the early and mid-19th century, westward expansion, slavery, national disruption and Civil War and the Reconstruction and its legacy.

Hi 273 The Age of Enterprise in the U.S. (1877-1929)**3 Crs.**

The development and impact of corporate capitalism, the political, social, intellectual and diplomatic transformations of the late 19th century, attempts at national reform and the impact of war, the beginnings of mass society and the causes of the Great Depression.

Hi 274 Contemporary America, 1929 to Present**3 Crs.**

The effects of the Depression and the initial response to it: the nature, achievements and shortcomings of the New Deal; the United States in world affairs from isolation to global involvement; the political, social and economic evolution of American life since World War II.

Hi 275 The History of American Labor**3 Crs.**

This course will trace the workers' plight from 17th century colonial workers through 20th century hard hats. Topics included will be labor organizations (conservative, liberal and radical), leading labor personalities (William Sylvis, Terence Powderly, Frances Willard, Samuel Gompers, John L. Lewis, Walter Reuther, George Meany), the black laborer, the mass unionization movement of the 1930's, labor's influence in politics, labor and organized crime and important labor legislation (Wagner Act, Taft-Hartley Act, Landrum-Griffin Act), etc.

Hi 277 The History of American Journalism**3 Crs.**

An examination of the development of U.S. journalism since its Colonial origins with emphasis, through selected research, on some major aspects of the subject.

Hi 278 Jewish History and Civilization I**3 Crs.**

Jewish history from the earliest times through the Exodus, entrance into Canaan, Prophets, Period of the Kings. The interaction between Jewish history and the Assyrian, Babylonian, Persian, Greek, and Roman civilizations including the rise of Christianity and its unique importance in understanding the history of civilization. Emphasis will be placed on showing the relevance of ancient Jewish history to modern times, in helping us to better comprehend man and his civilization in the 20th century.

Hi 279 Jewish History and Civilization II**3 Crs.**

Jewish history from after the second Jewish commonwealth in 135 c.e. through the Talmudic period; rise of Islam; middle ages; protestantism; industrial revolution; Zionism; and the yearning for Jewish homeland, the Holocaust, establishment of the State of Israel until 1978. Emphasis will be placed on clarifying the relevance of Jewish history to the comprehension of the

history of man and civilization throughout the centuries, and especially in the 20th century.

Hi 280 U.S.A. and East Asia 3 Crs.
Summarizes the achievements of traditional East Asian societies and examines Western contacts, imperialism and the resultant conflicts. Emphasis on China and Japan, traces Japanese imperialism and the revolutionary movements in China and the influence of the United States and the Soviet Union upon the emergence of Chinese Communism as a central force in the area today.

Hi 281 History of Southeast Asia 3 Crs.
A study of the formation of Southeast Asia cultures (Burma, Thailand, Cambodia, Laos, Vietnam and Indonesia) and an analysis of Chinese, Indian and Western influences on their development. Emphasis will be placed on the process of modernization in emerging nation states.

Hi 282 German History and Culture I* 3 Crs.

Hi 285 Germany Since the Middle Ages 3 Crs.
The political, economic, social and intellectual development of Germany from the Napoleonic period to the present. State and society, nationalism, unification, Realpolitik, world war, democracy, facism and post-war division.

Hi 286 Eastern Europe Crossroads of Cultures 3 Crs.
From the fall of Byzantium to Soviet Satellization.

Hi 287 The Holocaust 3 Crs.
This course deals with man's inhumanity to man as exemplified by the Nazi murder of two thirds of European Jewry. The focus will be historical, but psychological, sociological and literary themes will be explored. Prejudice in general and anti-Semitism in particular will be studied, to be followed by an inquiry into the roots, aims and events of the Nazi years. The Holocaust and its implications will be examined in depth. Several films and a death camp survivor will augment lectures, readings and discussions.

Hi 288 Hungarian History and Culture Until 1848 3 Crs.
This course provides a comprehensive view of Hungary's history from its very beginning up to the present day. The historical events, arranged in chronological order and grouped around historically coherent periods, will be examined in their political, economic and cultural ramifications.

Hi 289 Ukrainian History and Culture Until 1900 3 Crs.
Major political, cultural, social and economic developments of the Ukraine from the Kievan Rus to 1900.

Hi 291 Italy Since the Renaissance 3 Crs.
Describes the development of Italy from the beginnings of the Risorgimento in the 18th century to the present.

Hi 293 The History of Violence in America 3 Crs.
An exploration of the varieties and uses of violence, individual and collective, in the American past, and of violence as an aspect of the national mentality and culture.

Hi 294 20th Century American Historians in Conflict 3 Crs.
This course will deal with historiographical controversy surrounding the following developments in 20th century American history: American entrance into World War I, the 1920's, the New Deal, Pearl Harbor, the Yalta Conference and the origins of the Cold War, the Korean War, McCarthyism, the Negro Revolt, etc.

Hi 295 Role of Women in American History 3 Crs.
This course is designed to place women in their proper perspective in American history from colonial times to the present. Included will be the contributions of women in social reforms, literature, science, politics and the arts.

Hi 296 Patterns of Revolution 3 Crs.
A study of the preconditions and circumstances which affected the development of revolutionary movements in Western Europe. It traces the growth of "revolutions" from early stages in the peasant insurrections of the late 15th and 16th centuries and shows how "revolutions" evolved into more systematic forms. As examples the course uses the English Civil War, the French Revolution, the Revolutions of 1848 and the Russian Revolution.

Hi 303 United States Urban History 3 Crs.
A study of the urbanization of the United States; the origins, growth and development of American cities, their impact upon the nation; the city as a social, economic, political and cultural environment.

Hi 322 United States Foreign Policy 3 Crs.
This course examines the evolution and expansion of American foreign policy, its ideas and conduct, from the Revolutionary period to the present. It analyzes the aims of foreign policy, the influences which have shaped it and its impact on the nation's domestic politics.

Hi 382 Modern German History and Culture 3 Crs.
A survey of German political, economic, social and cultural history since 1914, covering German political history during World War I. Major aspects of the Weimar Republic, the rise of Hitler and the ideology of the National Socialist Movement. The causes and course of World War II and the main political and economic events of the two Germanies since 1945 will also be explored.

Hi 387 The Emergence of Modern Judaism 3 Crs.
A survey of the social, cultural and intellectual transformation of the Jew in the modern period, against the background of the major political, literary and social movements. The following focal phenomena will be considered: Enlightenment and Emancipation, patterns of migration, Zionism and the rise of the state of Israel.

Hi 388 Hungarian History and Culture Since 1848**3 Crs.**

This course provides a comprehensive view of Hungary's history to the present day. The historical events, arranged in chronological order and grouped around historically coherent periods, will be examined in their political, economic and cultural ramifications.

Hi 389 Twentieth Century Ukrainian History and Culture**3 Crs.**

The struggle for national survival, independence and unification of Ukraine from 1900 to present. Emphasis on the political, social, cultural and economic problems; Ukraine as an object of the international struggle; its partition among four neighbors in 1920's; unification under the Communist regime and membership in the U.N., liquidation of churches. Destruction of the Ukrainian intellectual and cultural life. National minorities in Ukraine (Jews, Russians, Poles). Dissident movement. The Ukrainians in the U.S. and diaspora.

Hi 390 Modern Romanian History and Culture***3 Crs.****Hi 391 Internship Program****3 or more Crs.**

The history internship program offers qualified students the opportunity of supervised field experience, currently at the Fairfield Historical Society, in an area allied with their own interests. Internships are arranged in advance of the semester they are to be taken, and only with the permission of the instructor.

Hi 393 Modern Chinese History and Culture**3 Crs.**

The study of modern Chinese history, culture and institutions from 1644 to the present. The course will focus on internal developments during the Ching and modern periods in addition to Chinese involvement with the Western World.

*Contact department for course descriptions.

Honors Courses

En 091-092 English Honors Seminar**6 Crs.**

An intensive consideration of speech, writing, and the use of the library. These courses replace En 011 and En 012; students who pass these courses may apply for a waiver from Ca 021.

Hn 202 Introduction to Humanities**3 Crs.**

An intensive study of the humanistic idiom from several points of view through major works of literature. A seminar paper is required. Prerequisite: En 092.

Hn 205 Problems For the Humanist**3 Crs.**

An interdisciplinary study of those problems which confront the humanist. The course deals with these problems from an intellectual and moral standpoint. Prerequisite: Hn 202.

Hn 206 Problems for the Scientist**3 Crs.**

Examines the changes in society and self-understanding brought about by scientific and technological prog-

ress. The computer revolution, nuclear weapons and energy, medical ethics, will be a few of the topics considered in the course. Prerequisite: Hn 205 or permission of the Honors Director.

Hn 301-302 Introduction to the Scientific Methods I, II**6 Crs.**

An integrated approach to a biological, chemical, and psychological research including the use of lecture and laboratories. Prerequisite: En 092 or permission of Director of Honors Program.

Hn 398-399 Independent Study**Variable Credit**

Opportunities are given for directed research in areas of interest to the individual student. Prerequisite: Hn 302 or permission of Director of Honors Program.

*Contact the instructors or Honors Director for more detailed course descriptions.

Media Studies Courses

Ms 101 Media: The Extensions of Man**3 Crs.**

An introduction to media technology, examining the impact of radio, television, newspapers and film on the human condition. The course objective is to equip the student to be a perspective consumer of media output by exploring how each medium codifies reality.

Ms 102 Media Study Skills**3 Crs.**

An introduction to the basic concepts and skills which are necessary for continued study in the media department. The first component focuses on the purposes and the techniques of media criticism. The goal is to prepare students to be able to give and to receive constructive, critical response. A second component introduces audio theory and practice. Students will study acoustic environments as well as basic sound recording techniques. A third component provides a survey of major theories, disciplines and technologies which currently comprise the general area of communications. Students are encouraged to identify areas for further research and practice as well as to recognize relationships among divergent areas. Skills in writing and group dynamics will be woven into the entire course. Prerequisite: Ms 101.

Ms 191-192 The Development of Motion Pictures I, II**6 Crs.**

A course designed to introduce the student to the historical development of film making, highlighting the evolution of the film as a means of expression. Sample films from the past will be shown at each class meeting followed by a discussion of the several aspects of the film. Laboratory fee: \$10. Ms 192 traces film history from 1940 to the present. Extensive screenings of classic films. Laboratory fee: \$10.

Ms 193 Telecommunications: History, Principles and Practices**3 Crs.**

Telecommunication is the attempt to transmit information over a distance by means of electric/electronic technologies. Beginning with early explorations which

occurred near the turn of the century, Ms 193 examines the structure, the product, the process and the potential of various telecommunications systems. This course also explores ways in which each system increases, constrains and alters human communication. Both mass systems (such as radio and television) and personal systems (such as telephone) are considered. While the focus of this study is on those telecommunications systems which have the greatest impact on societies, particularly television, the course is also concerned with the new technologies such as interactive television and computer assisted instruction.

Ms 201 Kinetics: A Study of the Moving Image 3 Crs.

Kinetics is the language of moving pictures. Unlike the linear sequence of speech and the written word, moving pictures create a simultaneity of sensory perception. Through an intensive study of experimental and feature films, the course explores the nature of the moving images and how they are organized to create a whole.

Ms 205 Solving Communications Problems with Media 3 Crs.

This course utilizes systems analysis techniques to appraise problems and to design solutions to communications problems which are found in large and small institutional environments. Design components include audience analysis, the formulation of communications objectives and content formulation. Design applications involve the selection of the most appropriate communication tools. A survey of available technologies includes graphics, multi-image slide-tape, film, video and computer based instruction. Use applications include interpersonal management, communications and employee information, sales and product training and public affairs. Actual case studies will be analyzed in the class.

Ms 212-312 Radio Production Workshops I, II 6 Crs.

An introduction to basic radio production. Students prepare for the FCC 3rd class license, learn the audio control board, and develop concepts of radio broadcasting. Because WSHU is integrated into the courses as a laboratory and program outlet, students are required to function as staff members.

Ms 213-313 Video Productions Workshops I, II 6 Crs.

An introduction to basic video theory (both conceptual and technical) and production technique. Participants are required to write, produce, and direct videotaped projects. The first semester utilizes Portapak and editing systems; the second semester is built around multi-camera studio productions. Laboratory fee \$10.00.

Ms/En 214-314 News Writing and Reporting Workshop I, II 6 Crs.

An introduction to basic news writing and journalistic reporting principles. Concepts of journalism will provide a format for an analysis of the news media and responsibilities of a journalist in today's society. The workshop sessions attempt to utilize the concepts in practical work. In the second semester, students write and edit an issue of the *Obelisk*, campus newspaper.

Ms 215-315 Film Making Workshop I, II 6 Crs.

An introduction to the basic techniques of cinematic composition, editing and film criticism. The student will also be introduced to the basic administrative and aesthetic aspects of film making. Critical stress will be on super 8 mm filming techniques, and the student will be expected to provide film.

Ms 216 Photography Production I: Color Slide 3 Crs.

An introduction to the fundamentals of color slide photography. The purpose is to learn to use light as a medium for creative image-making; the 35 mm camera becomes a tool for expanding and communicating a personal vision. Topics covered in class are camera care and handling, visual literacy, composition, the nature of light, existing and artificial light, color, portraiture, incandescent light and experimental photography. Critiques of weekly shooting assignments will take place at each meeting. Additional critical skills will be developed by examining classical and contemporary images.

Ms 295 Electronic Journalism 3 Crs.

Designed to analyze and to criticize constructively the process and the product of electronic journalism. The course includes the history of both radio and TV journalism, the social implications of news coverage, techniques and the economic foundations of contemporary electronic journalism.

Ms 296 Media as Advertising 3 Crs.

This course is designed to orient the student to the economic base of most media—advertising. The various print media as well as broadcast media will be discussed. While production in broadcast will be covered, print production will be examined in some detail. The analyses of audience, media selection and subsequent effectiveness are important areas. The process of advertising in the media, from conception of an idea to completion of a project, will be discovered and applied. Outside speakers will be involved in the course by sharing their experience on specific problems.

Ms 297 Public Relations: An Overview 3 Crs.

The concept of public relations was created from the need of new groups of people and new institutions to explain themselves to each other. The course will provide an overview of the history, the purpose and the various methods and skills related to public relations. Time will be devoted to practical sessions, such as choosing appropriate communications media. Each student will be given ample opportunity to bring to the fore the best of his/her potential for creativity.

Ms 298 Public Relations: Practical Applications 3 Crs.

The course will focus on the implementation of public relations action plans, as applied to specific problems (e.g. mergers, product recall, unionization, plant relocation, strikes, etc.) Both internal and external organizational communications programs will be discussed. Guest lecturers from business, institutional, and non-profit sectors will present actual case problems and their solutions.

Ms 301 Reading Seminar in Mass Communications **3 Crs.**

An interdisciplinary study of contemporary theories of mass communications. The course attempts to present an overview of the impact of mass communications by considering them as codes, as symbolic systems and as manipulative powers on both the conscious and subconscious levels. Reading, writing, discussion and research are required.

Ms 316 The Roaring Twenties: A Filmic Image **3 Crs.**

This extraordinary decade of Valentino, Lindbergh, jazz, prohibition, petting and marathons, more devastating to the established order of things than the sixties and seventies combined, is brought back to living reality by authentic films of the period, both documentary and theatrical. Laboratory fee: \$10.

Ms 370 Newspaper Publication **3 Crs.**

An introduction to newspaper publication, providing editing and publications practice. Emphasis will be on copy selection, copy editing, story placement, headline writing, use of art, page layout, copy fitting and use of stylebooks. Students will aid in the production of the campus newspaper.

In addition, issues affecting newspaper production will be discussed including libel, production economics and legal restrictions such as copyright and First Amendment rights.

Ms 371 World War II: A Filmic Image **3 Crs.**

A recreation of the whole perspective of the war era, both battlefield and life at home, using classic war documentaries as well as theatrical entertainment films from many nations. The course seeks to place the student back in history during a time of total war—a condition the contemporary student has never experienced. Laboratory fee: \$10.

Ms 381 The Images of Women in Film **3 Crs.**

Films are cultural artifacts. Each film contains within itself a complex social system reflecting the attitudes, values and mores of the society that produced it. This course attempts to uncover these values they encode the function of women on screen: the images they project, the roles they assume, the values they encode and the relationships they establish with men, children and each other. Emphasis is on content description rather than formal analysis.

Ms 391 Film Seminar **3 Crs.**

The study of the impact of the film phenomenon, with special attention given to how films influence our thoughts, our actions and our lives. Each semester the course focuses on a different part of the world on film. Laboratory fee: \$10.

Ms 395 Media Practicum **1-3 Crs.**

An opportunity for outstanding senior media studies majors to assist in the planning and production of media projects contracted by the University or by outside agencies. By permission of the Director of Media Studies. Offered only when appropriate projects are available.

Ms 398 Independent Study **1-3 Crs.**

Work on a special topic or production to be arranged with an instructor who will direct the work. Permission of the Director of Media Studies will be granted to qualified media studies majors on the basis of a written prospectus. By special arrangement.

Modern Foreign Language Courses

ARABIC**Ab 001-002 Elementary Arabic I, II** **6 Crs.**

Morphology and basic syntax of modern standard Arabic. Emphasis on oral drill as well as reading and writing.

Ab 051-052 Intermediate Arabic I, II **6 Crs.**

This course starts where Elementary Arabic II leaves off and is essentially a reading course in modern standard Arabic, beginning with vowelized texts from the Gospels and the Quran, leading up to four unvowelized texts for newspaper Arabic.

Prerequisites: Successful completion of elementary Arabic I, II, a knowledge of the grammar covered in lessons I-XVI of Ziadeh and Winder, ability to use an Arabic dictionary, and knowledge of the regular verb in all its tenses as well as some familiarity with the weak verbs.

CHINESE**Cn 001-002 Elementary Chinese I, II** **6 Crs.**

The course will teach students to understand and speak the standard national language of China. Emphasis is on spoken Chinese structures, *pinyin* Romanization is used to teach pronunciation. In the second semester students will learn more advanced spoken structures to support conversational ability in various situations. Concentration on written Chinese characters will enable students to read short selections. Daily work with a cassette recorder is required.

FRENCH**Fr 001-002 Elementary French I, II** **6 Crs.**

Essentials of structure, reading basic texts, speaking and writing simple sentences. Study of French culture. Oral ability perfected through laboratory practice. Laboratory fee: \$10.

Fr 051-052 Intermediate French I, II **6 Crs.**

Review and intensified study of structure, reading short works, vocabulary building, composition and conversation. French culture as reflected in daily life. Laboratory practice. Laboratory fee: \$25. Prerequisite: Fr 002 or equivalent.

Fr 101-102 French Composition and Grammar I, II **6 Crs.**

More complex grammar, enrichment of vocabulary and improvement of proficiency in speaking, reading, writing and translating, based on literary and cultural texts. Prerequisite: Fr 052 or equivalent.

Fr 111-112 Conversational French I, II **6 Crs.**

An integrated study of French as it is spoken and written today. Prerequisite: Fr 052 or equivalent.

Fr 215-216 French Readings and Discussion**6 Crs.**

A course designed to improve reading ability and oral self-expression through selected readings on French culture and civilization, as well as from French authors followed by discussions and written reports. Additional readings from French newspapers and magazines to suit individual interests.

GAELIC**GI 001-002 Elementary Gaelic I, II****6 Crs.**

Basic language patterns learned in the context of normal cultural situations. Practice in understanding, speaking, reading and writing Gaelic. Students will study Irish culture as reflected in daily life. The second semester will provide further instruction in the language.

GI 051-052 Intermediate Gaelic I, II**6 Crs.**

A continuation of Elementary Gaelic I and II. Gaelic grammar and vocabulary will be strengthened. Prerequisite: GI 002 or permission of instructor.

GI 101-102 Advanced Grammar and Conversation I, II**6 Crs.**

Review of grammar, translation and composition. Drill in written and oral self-expression. The use of tape recordings to facilitate the mastery of the conversations. Poetry and literary selections are used to reflect the culture and characteristic traits of the Irish people. Prerequisite: GI 052 or permission of instructor.

GERMAN**Ge 001-002 Elementary German I, II****6 Crs.**

Essentials of structure, reading basic texts, speaking and writing simple sentences. Studies of German culture and learning reinforced through language laboratory.

Ge 007 Introduction to German for Business***3 Crs.****Ge 051-052 Intermediate German I, II*****6 Crs.**

Prerequisite: Ge 002.

HEBREW**He 001 Elementary Modern Hebrew****3 Crs.**

An introduction to the study of modern Hebrew. Stress on reading, conversation and oral comprehension, grammar, syntax and basic vocabulary.

HUNGARIAN**Hg 001-002 Elementary Hungarian I, II****6 Crs.**

This course provides an introduction to the Hungarian language. While emphasis is placed on giving the student command of the spoken language, both vocabulary and the structure of the written language is included. The course provides the student with a sound background for further development of fluency and proficiency in Hungarian.

ITALIAN**It 001-002 Elementary Italian I, II****6 Crs.**

Essentials of structure, reading of basic texts, speaking and writing sentences. Study of Italian culture.

It 051-052 Intermediate Italian I, II**6 Crs.**

Review and intensified study of structure, reading of short works, vocabulary building, composition and conversation. Contemporary and historical culture. Prerequisite: It 002 or equivalent.

It 111-112 Conversational Italian I, II**6 Crs.**

An integrated study of Italian as it is spoken and written today. Intensive oral practice, pronunciation, vocabulary, reading, comprehension, short speeches and group discussions. Prerequisites: It 052 or permission of instructor.

It 215-216 Italian Readings and Discussion**6 Crs.**

Essentially an advanced language course with equal emphasis on improved skills in reading, writing and speaking. Introduction to Italian culture and civilization through readings and discussions of selected Italian writings.

JAPANESE**Jp 001-002 Elementary Japanese I, II****6 Crs.**

An introduction to modern Japanese. Pronunciation drill, grammar and conversation practice with an introduction to the "hiragana" writing system. Additional language laboratory sessions required.

Jp 051-052 Intermediate Japanese I, II**6 Crs.**

A continuation of elementary Japanese. Pronunciation drill, grammar and higher level conversational practice. Introduction to the "kanji" writing system and its application. Additional laboratory sessions required.

Jp 111-112 Conversational Japanese I, II***6 Crs.**

Prerequisite: Jp 052

Jp 215-216 Readings and Discussion***6 Crs.****LITHUANIAN****Ln 001-002 Elementary Lithuanian I, II****6 Crs.**

The basic elements of grammar, pronunciation and simple conversation with some reading and writing. The second semester emphasizes practice in conversation, speech patterns and readings in Lithuanian literature.

Ln 003 Practical Lithuanian***3 Crs.****Ln 051-052 Intermediate Lithuanian I, II****6 Crs.**

More complex grammar, enrichment in vocabulary and improvement of proficiency in speaking, reading and translating. Study of Lithuanian literature as well as reading short works. Prerequisite: Ln 002 or equivalent.

Ln 111 Conversational Lithuanian 3 Crs.
Emphasis on conversation and pronunciation, vocabulary and common expressions with some reading and writing. Of special interest to those who wish to brush up or improve their knowledge of the language.

Ln 215-216 Readings and Discussion 6 Crs.
Readings from contemporary novels, poetry, plays and newspapers. Discussion based on works in Lithuanian literature and current affairs.

POLISH

PI 001-002 Elementary Polish I, II 6 Crs.
An introduction to Polish stressing pronunciation, aural comprehension and basic conversation, fundamental principles of grammar, training in reading, comprehension and writing.

PI 051-052 Intermediate Polish I, II* 6 Crs.
Prerequisite: PI 002

PI 111-112 Conversational Polish I, II* 6 Crs.

PI 215-216 Polish Readings and Discussion* 6 Crs.

PORTUGUESE

Pt 001-002 Elementary Portuguese I, II 6 Crs.
An introductory course to the comprehension of Portuguese. Basic dialogues are used to provide most of the vocabulary. Reinforcement drills follow each conversation to develop the student's ability in personal expression. Cultural readings are also a part of the course work. Laboratory drills strengthen comprehension and provide additional practice of the grammatical structures.

Pt 051-052 Intermediate Portuguese I, II* 6 Crs.

Pt 111-112 Conversational Portuguese I, II* 6 Crs.

SLOVAK

Sk 001-002 Elementary Slovak I, II 6 Crs.
A study of the Slovak language. Dialogue, reading, grammar, translation from English to Slovak and vocabulary is included. The culture and history of the Slovak people is also emphasized and literary selections will be read to illustrate the characteristic traits of the Slovak people.

Sk 051-052 Intermediate Slovak I, II* 6 Crs.

Sk 181 Slovak Culture and Civilization 3 Crs.

The main currents of Slovak civilization are presented by means of lectures and student participation in writing and oral reports. The history, geography, literature and fine arts are scanned and studied as a basis for class discussion.

SPANISH

Sp 001-002 Elementary Spanish I, II 6 Crs.
Basic language patterns learned in the context of normal cultural situations. Practice in understanding, speaking, reading and writing Spanish. Opportunities

for insight into the culture of Spain and Hispanic America. Learnings are reinforced in the language laboratory. Lab fee: \$10.

Sp 003-004 Practical Spanish For Everyday Use I, II 6 Crs.

Vocabulary and conversation for people who deal with the Spanish-speaking in banks, stores, social service and hospitals.

Sp 008 Spanish For Medical Personnel 3 Crs.

Vocabulary and conversation for people who deal with the Spanish-speaking in hospitals and other health services. Prerequisite: Sp 002.

Sp 051-052 Intermediate Spanish I, II 6 Crs.

Review and intensified study of authentic language patterns. Readings based on Spain and Hispanic America. Use of the language laboratory is continued. Speaking ability is stressed. Lab fee: \$10. Prerequisite: Sp 001 and Sp 002 or equivalent.

Sp 053-054 Intermediate Spanish For Social Workers I, II 6 Crs.

An intermediate course designed especially for students interested in doing social work with the Spanish-speaking. Oral practice in laboratory. Prerequisite: Sp 002 or equivalent.

Sp 055-056 Intermediate Spanish for Spanish Speakers 3 Crs.

Aimed at helping the Spanish-speaking student improve his oral and written expression in his native tongue. Pronunciacion Ortografia, Redaccion. Lab fee: \$10.

Sp 101-102 Advanced Spanish Composition and Grammar I, II 6 Crs.

Writing controlled compositions based on selections previously read and discussed. Vocabulary building. Practice in using patterns and structures found in the reading. The course culminates in the writing of free compositions. Prerequisite: Sp 052. Lab fee: \$10.

Sp 101H-102H

For students enrolled in the Honors Program. An enriched course especially tailored to the individual student.

Sp 107 Business Spanish 3 Crs.

A practical course which aims at giving specific vocabulary needed in various occupations which require the use of business Spanish. In addition, students will be given special training in writing business letters. Prerequisite: Sp 052 or permission of the Chairperson.

Sp 108 Tecnicas de Traduccion (Spanish For Translators) 3 Crs.

An introduction to principles of translation. Study and analysis of modern standard Spanish. Syntactic description and development of skills. Investigation and training in the nature and use of Spanish for translation. Prerequisite: Sp 052 or permission of the Chairperson.

Sp 111-112 Conversation: Topics For Daily Living 6 Crs.

An integrated study of Spanish as it is spoken and written today. Intensive oral practice, pronunciation, vo-

cabulary, reading, comprehension, short speeches and group discussions. Use of audiolingual aids in the laboratory is required. Prerequisite: Sp 052 or equivalent. Lab fee: \$10.

Sp 201-202 Spanish Literature I, II

6 Crs.

Reading of the great works of Spanish literature from the Middle Ages to the present day, with emphasis on an understanding of the Spanish mind and way of life. Oral and written reports. Use of audiolingual aids in the laboratory is required. Lab fee: \$10. Prerequisites: Sp 101 and Sp 102 or permission of the chairperson.

Sp 213 Workshop in Conversational Spanish

3 Crs.

Intensive practice in spoken Spanish through real life situations: shopping, cooking, dining. These and other activities provide a motif for lively conversations in the Spanish languages. Prerequisites: Sp 051 and Sp 052 or permission of the chairperson.

Sp 214 Workshop in Spanish Grammar

3 Crs.

Analysis of the principal structures necessary for correct speech and writing. Intensive practice in the use of these structures. Prerequisite: Sp 102 or permission of the chairperson.

Sp 215-216 Spanish Readings and Discussion I, II

6 Crs.

Designed to improve reading ability and self-expression through readings chosen from Spanish authors and followed by discussion. Additional readings from newspapers and magazines, according to individual interests. Prerequisites: Sp 101 and Sp 102 or permission of the chairperson. Lab fee: \$10.

Sp 241 Spanish Phonetics & Phonology

3 Crs.

A study of the sounds of the language. Drill for the improvement of pronunciation and intonation. Recommended for all majors and for those who expect to teach Spanish. Use of audiolingual aids in the laboratory is required. Prerequisites: Sp 101 and Sp 102. Lab fee: \$10.

Sp 250 Teatro Contemporaneo de Espana

3 Crs.

This course will acquaint the student with plays of the important dramatists of the contemporary period in Spain. Included in the session will be a general overview of the history and development of the drama in Hispanic literature and in-depth study of the following authors: Alejandro Casona, Federico Garcia-Lorca, Antonio Abuelo Vallejo and Alfonso Sastre.

Sp 255 The Essay in Spain and Spanish America*

3 Crs.

Sp 280 Hispanic Civilization—Spain

3 Crs.

History and culture of the Spanish people from their origins to the present day with emphasis on their arts, their thought and their lifestyle. Lectures, readings and reports. Audiovisual materials will be used. Prerequisites: Sp 101 and Sp 102. Lab fee: \$10.

Sp 281 Hispanic Civilization—Spanish America

3 Crs.

Designed to promote understanding of the Spanish-American people through the different periods of their history, of their behavior patterns and their reactions to political, religious and economic problems. Selected readings. Student presentation of research on various countries. Audiovisual materials will be used. Prerequisites: Sp 101 and Sp 102. Lab fee: \$10.

Sp 282 Puerto Rico: Su Lengua Y Su Cultura

3 Crs.

A study of Puerto Rico, its people, culture and language as shown in its literature and political history.

Sp 283 The Hispanic Caribbean

3 Crs.

A comprehensive study of the main historical and cultural development of the Caribbean World (Puerto Rico, Cuba and the Dominican Republic) as seen through the works of the outstanding figures in these areas.

Sp 284 El Dictador en la Novela Hispanoamericana del Siglo XX

3 Crs.

Centers on an analysis of selected novels from the post-modernism to the present. Particular emphasis on the works of M. L. Guzman, M. A. Asturias, A. Roa-Bastos, J. Rulfo and G. G. Marquez. Close study of texts and evaluation of movements. Prerequisite: Sp 102 or permission of the chairperson.

Sp 285 Spanish American Novel of the Twentieth Century*

3 Crs.

Sp 315-316 Conversation: Contemporary Issues I, II

6 Crs.

A course sequence designed to improve mastery of spoken Spanish. Discussions based on current materials: books, newspapers, magazines and filmstrips dealing with life in the Spanish world, both here and abroad. Prerequisites: Sp 111 and Sp 112.

Sp 317-318 Modern Spanish Literature: Readings and Discussion I, II

6 Crs.

Informal class discussions of modern literary works in Spanish to gain an understanding of today's Spanish authors while improving speaking ability.

Sp 341 Contrastive Linguistics: Spanish-English

3 Crs.

Awareness of the relationship between linguistics and the learning of a new language. Phonological and structural comparison between Spanish and English as an important aspect of the audiolingual approach to the learning and teaching of the Spanish language. Prerequisite: Sp 241 or permission of the chairperson.

Sp 351-352 Masterpieces of Spanish American Literature I, II

6 Crs.

Reading of the great works of Spanish American Literature, from the colonial period to the present day. Lectures and reports based on the works studied. Recordings of outstanding authors and critics. Prerequisites: Sp 201 and Sp 202 or permission of the chairperson. Lab fee: \$10.

Sp 361 The Spanish American Fiction*

3 Crs.

Sp 363 The Spanish American Essay (El Ensayo en Hispano America)* 3 Crs.

Sp 365 The Boom of the Spanish-American Novel 3 Crs.

The origins, development and international impact of the "boom" in Spanish-American literature. Topics include writers of this "new novel", what is really new and what has been borrowed and partially changed from the old Spanish-American novel.

UKRAINIAN

Uk 001-002 Elementary Ukrainian I, II 6 Crs.

Primarily for students with little or no knowledge of the language. By a combination of lectures, drills and lab work, the basic elements of Ukrainian structure are presented orally, aurally and by written exercises. Reading ability, audio comprehension and moderate oral ability are the aims of this course.

*Contact department for course description

Music Courses

Mu 101 Introduction to Opera 3 Crs.

A survey of representative operas from the 17th century to the present with emphasis upon the relationship between music and drama.

Mu 102 History of Jazz 3 Crs.

An analytical survey of jazz styles from the African sources to the present.

Mu 103 Music in Christian Worship 3 Crs.

The function of music in worship from the early Christian Church to the present. Emphasis upon the relation between historical practices and requirements of music in the modern liturgical renewal.

Mu 111 Music in Western Civilization 3 Crs.

An introductory study of musical style, content and function as shaped by the culture of the age in which the music was created.

Mu 112 Music in America 3 Crs.

A survey of music in North America from the pilgrims to the present. Emphasis upon the creation and use of music, both popular and classical, as a reflection of American society.

Mu 121 Musicianship I 3 Crs.

Music notation and reading. Construction and function of scales, intervals and triads, correlated ear training, sight signing, keyboard and creative exercises.

Mu 122 Musicianship II 3 Crs.

Harmony, including seventh and ninth chords, non-harmonic tones and modulation. Advanced ear training, keyboard harmony and analysis. Prerequisite: Mu 121.

Mu 131 Private Lessons 1 Cr.

Private instruction in selected instruments or voice. One half-hour lesson per week. Additional fee: \$30.00.

Mu 132 Private Lessons 2 Crs.

Private instruction in selected instruments or voice. One hour lesson per week. Additional fee: \$60.00.

Mu 133 Chorale 1 Cr.

Select mixed chorus, presenting concerts at the University and in the community. Admission by audition.

Mu 134 Chamber Orchestra 1 Cr.

Admission by audition to performers on woodwind, brass or string instruments.

Mu 135 Ensemble 1 Cr.

Ad hoc ensembles formed according to student interest. Admission by audition.

Mu 211 Twentieth Century Music 3 Crs.

Style, content and function of music in the 20th century and western society. Music as fine art and popular art, diversity and divergence. Prerequisite: Mu 111 or 121.

Mu 212 Topics in Music Literature 3 Crs.

Study of selected musical styles, genre or themes. Seminar setting with emphasis on experiencing music through live performance. Prerequisite: Mu 111 or 121.

All applied music courses may be repeated for credit. This credit is applied to elective, not core, requirements.

Philosophy Courses

Ph 101 Introduction to the Problems of Philosophy 3 Crs.

Philosophy is defined for the beginning student through an exploration of the branches of philosophy and their respective problems as they develop in the history of philosophy from its beginning in Greek thought to the present.

Ph 212 The Art of Making Sense: Practical Logic 3 Crs.

The workshop emphasizes the practice of logical analysis in classroom exercises. The course focuses on how to make our ideas clear, how to reason correctly and how to evaluate evidence used to substantiate a truth claim.

Ph 214 The Philosophy of Human Communication 3 Crs.

Utilizing philosophical works in areas of speech, body language and semiotics (the language of signs), this course will investigate the extent to which each individual creates his own language and the limits which society places upon the continuing events known as interpersonal communications.

Ph 225 Philosophy of Plato 3 Crs.

This course attempts to analyze the question of what it means to be philosophical through an exploration of selected Platonic dialogues. Through an examination of poetry, knowledge, speech and love, the nature of the philosophical life will be discussed.

Ph 231 Philosophy of Knowledge 3 Crs.

A study of the conditions which make knowledge possible and the criteria of truth and falsity.

Ph 251 Ethics 3 Crs.

An historical study of ethical theories, taken from representative philosophers of the Classical, Medieval, Modern and Contemporary periods. Authors included are Plato, Aristotle, Augustine, Hume, Kant, Mill, Nietzsche, Kierkegaard, James and Moore.

Ph 255 Political Philosophy 3 Crs.

This course will treat the perennial question of political philosophy—whether or not men can know and found the best political regime—in order to shed light on the nature of modern political systems. Issues discussed will include the difference between ancient and modern political theory, the relation of philosophy to politics and the influence of technological thinking on political systems.

Ph 257 Business Ethics 3 Crs.

An investigation of the philosophical questions which arise in normal business situations. The case-study method will be used to examine such questions as nepotism, competition, marketing, career advancement and product research. There will be consideration given to the question of whether a special ethic should apply to business situations.

Ph 258 Medical Ethics 3 Crs.

A study of ethical theories and their application to current biomedical issues, such as death and euthanasia, abortion, patient's rights, professional responsibilities, human experimentation, behavior control and genetic testing and experimentation.

Ph 270 Philosophical Anthropology 3 Crs.

This course deals with philosophical reflections on the nature and meaning of "man", especially in contemporary philosophy, such as Existentialism and Marxism. The philosophical writings of Martin Buber and Max Scheler on the nature of "man" will be studied.

Ph 275 Process Philosophy 3 Crs.

An examination of the influence of the idea of cultural and biological evolution on philosophy in the 19th and 20th centuries, especially on the thought of Hegel, Spencer, Nietzsche, Bergson, Dewey, Whitehead and Teilhard de Chardin.

Ph 278 Values in Conflict 3 Crs.

This course considers in detail contemporary ethical systems. After examining the Judeo-Christian ethical tradition, attention is turned to recent intellectual movements that have affected modern man's reevaluation of classical and traditional morality; namely Marxism, psychoanalysis and existentialism. An attempt is made to establish a dialogue and a synthesis of these trends.

Ph 306 Existentialism 3 Crs.

A study of 19th and 20th century existentialism, especially the thought of Kierkegaard, Nietzsche, Heidegger and Sartre.

Ph 307 Introduction to Phenomenology 3 Crs.

This course focuses primarily on the phenomenological philosophy of Edmund Husserl. Some of the topics considered in detail are Husserl's understanding of phenomenology as a philosophical method, the transcendental reduction, consciousness, intersubjectivity and the lifeworld (Lebenswelt). An attempt is also

made to probe into Husserl's influence on the phenomenological philosophies of Heidegger, Merleau-Ponty and Scheler.

Ph 312 Philosophical Foundations of Marxism 3 Crs.

A study of the philosophical development of the young Karl Marx, from his flirtation with Hegel to Feuerbach, to his own historical perspective.

Ph 322 American Philosophy and Culture 3 Crs.

Study of the interaction of American philosophical thought and the American experience as revealed in the philosophies of Edwards, Emerson, Royce, Peirce, James and Dewey.

Ph 382 Problems in Contemporary Philosophy 3 Crs.

Topics of study to be announced by instructor.

Ph 398 Independent Studies 1-3 Crs.

Every semester.

Political Science Courses

Po 121 Introduction to American Government 3 Crs.

An introduction to American politics, the Constitution, civil liberties, political parties, elections, Congress, the Presidency and the Supreme Court.

Po 122 Introduction to International Relations 3 Crs.

Introduces the student to the fundamental factors in analyzing and understanding international relations. Nature and evolution of the nation-state system, sovereignty, national interest, power, diplomacy, war and adjustment of international conflict.

Po 212 American State and Local Government 3 Crs.

The original constitutional position of the states and the changing federal-state relationships. Types and evolution of local government, constitutional and statutory limitations. An emphasis is placed on Connecticut government.

Po 213 Lobbying and the Legislative Process 3 Crs.

This course focuses on various factors which influence legislative decision making and methods of lobbyists and public interest groups in intervening successfully in the legislative process. Also covered are ethical and legal boundaries for lobbying activity and the development of competency in research involved with legislative intervention by lobbyists and public interest groups.

Po 214 Connecticut State Government 3 Crs.

An examination of the development of the State of Connecticut from the time of its colonial origins to the present day functioning of the Connecticut government system and its legislative responses to issues such as urbanization and industrialization.

Po 215 Political Parties**3 Crs.**

The evolution to the American political party system will be emphasized. Additional topics will include political campaigning, public opinion, the media, minority parties and the future of the party system.

Po 216 Congress and the Legislative Process**3 Crs.**

An examination of Congress, its constitutional powers, historical development, internal processes and culture as well as external influences—executive branch, interest groups, public opinion and elections.

Po 217 The American Presidency**3 Crs.**

An analysis of the role of the chief executive in the American political system. Attention will be given to the evolution, functions and limits of executive leadership as well as to relations with Congress, courts, bureaucracy and public opinion and the role of personal style in the office.

Po 231 Comparative European Politics**3 Crs.**

A comparative analysis of the governments and politics of the United Kingdom, France, Germany and the Soviet Union, including models of democracy and totalitarianism.

Po 233 Comparative Asian Politics**3 Crs.**

A comparative study of the politics and governments of Japan, China and possibly other Asian states with special emphasis upon their modern development.

Po 234 Politics of the Middle East**3 Crs.**

A survey of the problems and prospects of the Middle East focusing upon the culture, intrusion of the West, Islam, forces for stability and change as well as the role of the Middle East in world affairs. Discussion of contemporary issues.

Po 242 International Organizations**3 Crs.**

A study of the origins, evolutions, structure and functions of major global, regional and supranational organizations with special attention focused upon the League of Nations and the United Nations.

Po 244 American Foreign Policy Since 1945**3 Crs.**

The course focuses upon American foreign policy since World War II. It treats the major policies in which the U.S. has engaged—containment, deterrence, detente, the use of force and economic diplomacy—and also the relevance of such policies to the shifting basis of American national power in a world increasingly characterized by vulnerability to nuclear war, regional instabilities as well as energy, food and resource dependencies.

Po 245 U.S. Foreign Policy in Africa**3 Crs.**

U.S. foreign policy toward Africa from the 19th century, with emphasis since 1945. This course considers the spread of liberalism in Africa and recent developments in South Africa.

Po 246 U.S. Foreign Policy and the Third World**3 Crs.**

This course will include a systematic analysis of Third World value systems and the U.S. foreign policy response to them. The approach of the course will be

based on fourteen major reading assignments. Enrollment is limited to twelve with the permission of the instructor.

Po 285 Future Politics**3 Crs.**

An examination of the alternative futures which face America, industrial civilization and mankind as well as the scientific and technological, environmental, social, economic and political components which describe and drive them.

Po 301 Development of Ancient and Medieval Political Theory**3 Crs.**

Examines the political views of the early philosophers from ancient Greece to the Middle Ages, Plato, Aristotle and later development of classical political thought through selected works of Roman and Medieval theorists.

Po 302 Development of Modern Political Theory**3 Crs.**

The modern political thinkers from Machiavelli to contemporary times. Treatments of Machiavelli, Hobbes, Locke, Rousseau, Hegel and Marx.

Po 305 Political Profiles: Hitler, Stalin, Mao and Tito**3 Crs.**

A study of the emergence, personality and impact of each of these major 20th century figures.

Po 321 Public Administration**3 Crs.**

A survey course of administrative theories and skills for those intending to enter the public sector. Theories of public organizations, their legal and political framework, unions, planning, budgeting, communication, leadership and other skills. Appropriate for those planning careers in service, non-profit organizations or government agencies.

Po 322 American Public Policy**3 Crs.**

The analysis of government policies and programs, generally at the national level. Evaluations of public needs, options for government response, role of experts, impact of political and social forces and their outcomes. Examination of certain policy areas in welfare, education, crime, energy and others.

Po 325 Politics, Law and Judicial Behavior**3 Crs.**

The judiciary's role in the American political process, an examination to judicial decision making, the role of law, interest groups, the interaction of judges with other political factors and influences, analysis of the powers and limitations of the Supreme Court.

Po 341 International Law**3 Crs.**

This course traces the development of international law by reviewing principles and cases in major topical areas.

Po 351 Constitutional Law**3 Crs.**

An inquiry into American constitutional law through the study of outstanding cases. Attention is given to the development of constitutional doctrines and the processes of legal reasoning.

Po 352 Special Topics in Administration**3 Crs.**

This is intended as an independent study course to meet the needs and interests of the student which are not met by regular curriculum. Prerequisite: Permission of the instructor.

Po 391 Internship Program**3-15 Crs.**

The Political Science Internship Program offers students valuable field experience in the following areas: municipal government, county government, state government, the mass media and political campaigns. In all instances, the instructor must approve the project in advance.

Psychology Courses

Ps 001 Elements of Psychology**3 Crs.**

Introduction to the basic psychological factors underlying human behavior with emphasis on the understanding of personal, family and social life situations. Does not satisfy Area II or major requirements.

Ps 010 Seminar in Self-Management**3 Crs.**

A presentation of techniques useful for life structuring, including personal assessment, goal setting, self-applied behavior modification and career planning. Does not satisfy Area II or major requirements.

Ps 101 General Psychology-Scientific Aspects**3 Crs.**

Introduction to psychology as the science of behavior, focusing on the individual as an adapting biological system. Topics include history and methodology, physiological basis for behavior, sensation, perception, learning, memory and thought.

Ps 102 General Psychology—Psychodynamics**3 Crs.**

A continuation of Ps 101. Topics include personality development and assessment, person perception, interpersonal attraction, conformity, and behavior disorders. Prerequisite: Ps 101.

Ps 121 Applied Psychology**3 Crs.**

A survey of the professional activities of psychologists as applied to the fields of business, advertising, mental health, education and law.

Ps 125 Psychology of Dreams and Dreaming**3 Crs.**

The physiology and interpretation of dreams. Requires the keeping of a dream diary by the students. Prerequisite: Junior or senior standing.

Ps 131 Dynamics of Behavior**3 Crs.**

Considers the basic nature of both healthy and faulty patterns of human behavior. Topics include personality development, motivation, stress, and adjustment.

Ps 132 Adjustive Behavior**3 Crs.**

Considers development and function of groups, the way groups and individuals influence each other, interpersonal relationships such as marriage and occupation, and resources for personal growth and change. Studies applications of concepts for effective behavior. Prerequisite: Any psychology course.

Ps 135 Drugs and Behavior**3 Crs.**

An examination of the relationship between drugs and behavior as manifested in the characteristics and activities of psychoactive drugs, drug users and society as a whole. Prerequisite: Ps 101.

Ps 141 Expanding Human Awareness I**3 Crs.**

A positive-focus group experience designed to increase awareness of oneself and others. Current research in the field will also be evaluated.

Ps 142 Expanding Human Awareness II**3 Crs.**

A continuation of Ps 141. Experience and discussion in a positive-focus setting. Prerequisite: Ps 141 or permission of instructor.

Ps 151 Statistics for the Behavioral Sciences**3 Crs.**

An introduction to the basic concepts and techniques of statistics as they apply to behavioral research. Topics include the organization of data, measures of central tendency and variability, correlation, sampling error, parametric and non-parametric tests of significance and introduction to analysis of variance. Prerequisite: C or better in Mt 002.

Ps 152 Research Design and Analysis**3 Crs.**

The application of statistical principles to the mechanics of the scientific method within the context of psychological research. Stress is placed on the design of models for hypothesis testing, relation of theory to hypothesis and control of extraneous variables. Prerequisite: Ps 151.

Ps 161 Psychological Evaluation**3 Crs.**

A description and demonstration of the tests and other diagnostic procedures used by psychologists in conducting an evaluation of children and adults in a school or private setting. Consideration will be given to what is looked for and how it is assessed in a psychological evaluation.

Ps 171 Psychology of Women**3 Crs.**

A survey and examination of current research and theories about women and sex-roles. Topics discussed include attitudes toward women, motherhood, mother-daughter and father-daughter relationships, women and work, sexuality, marriage, love, and the biology of women.

Ps 181 Assertiveness Training**3 Crs.**

The purpose of this course is to develop an understanding of theory and applications of assertiveness training, to develop an awareness of self and the implications that this course provides for personal growth. Topics explored include: Theoretical Development of Behavior Therapy, Assertiveness Training Process, Development of Skills and Abilities.

Ps 191 Paranormal Psychology**3 Crs.**

This course will consider occurrences such as ESP, psychokinesis, telepathy, precognition, mediums and seances, ghosts and apparitions, reincarnation, spiritual healing, out-of-body experiences, psychic photography, angels, devils and possessions, and other "psychic phenomena." There will be discussion as to what the evidence offered in support of these

kinds of events indicates and what theories may be constructed to explain these happenings. The overall aim of the course is to help students develop a critical perspective that will assist them in making informed judgments as to what is believable and what is not.

Ps 215 Social Psychology: Microprocesses

3 Crs.

Focuses on how people are affected by the persons around them. Topics discussed include person perception, first impressions, interpersonal attraction, nonverbal communication, romantic love, prejudice, stereotyping, aggression, conformity, obedience, and environmental influences on behavior. Prerequisite: Ps 101.

Ps 241 Psychology of Personality

3 Crs.

Focuses on the personality theories of Sigmund Freud, Carl Jung, Alfred Adler, Karen Horney, and transactional analysis. Prerequisite: Ps 101.

Ps 242 Psychology of Personality II: The Existentialists

3 Crs.

This course considers more recent approaches to personality, particularly the Existential-Humanistic perspective. The viewpoints of such thinkers as Sartre, Marcel, Buber, Maslow, Allport, Rogers, May, Frankl, etc. will be considered. Prerequisite: Ps 101 or permission of instructor.

Ps 252 Child Development Psychology

3 Crs.

Biological, psychological and social factors in child development from birth to pre-puberty with particular emphasis on cognitive, emotional and personal social functioning. Prerequisite: Ps 101.

Ps 260-269 Experimental Psychology

3 Crs.

A series covering research techniques and literature in a particular area of psychology. Laboratory work is included. Six credit hours are required for major.

Ps 261—Perception	Ps 264—Emotions
Ps 262—Learning	Ps 265—Cognition
Ps 263—Sensation	Ps 266—Social Psychology

Ps 272 Adolescent-Old Age Psychology

3 Crs.

An interdisciplinary study of the development and behavior of the human being from puberty to old age. Includes issues and problems relevant to adolescence, developmental tasks or adulthood and middle age, psychological characteristics of elderly, and the psychology of death and dying. Prerequisite: Ps 101.

Ps 285 Psychological Counseling I

3 Crs.

This course will cover the philosophy of counseling, fundamental principles, and the attitudes and techniques involved in a helping relationship. Several theories or approaches to counseling will be presented. Prerequisite: Ps 101.

Ps 289 Community Mental Health

3 Crs.

A course aimed principally at the following factors: (1) identification and delineation of contemporary mental health problems and issues; (2) a critical reexamination of basic models and assumptions; (3) planning procedures for the utilization and conservation of health resources; (4) development of community ser-

vices with emphasis on prevention; and (5) research and evaluation techniques. Prerequisites: Ps 101 or So 101.

Ps 292 Systems and Theories of Psychology

3 Crs.

An historical survey of theoretical formulations and systems in psychology with evaluation of the contributions of structuralism, functionalism, behaviorism, Gestalt psychology, psychoanalysis, learning theory and the physiological orientation. Prerequisites: Ps 101, Ps 102 and senior standing.

Ps 301 Basic Concepts in Psychology

3 Crs.

An advanced seminar devoted to discussing original sources covering basic concepts and current controversies in psychology. Prerequisite: Psych major and senior standing or permission of the chairperson.

Ps 311 Abnormal Psychology

3 Crs.

This course considers more serious types of disordered behavior, such as schizophrenia, brain damage, retardation, alcoholism, etc. Various viewpoints concerning sexual deviations and sexual dysfunctions will comprise a segment of the course, as will a discussion of homosexuality. Prerequisite: Ps 102 or permission of instructor.

Ps 314 Psychology and Religion

3 Crs.

This course will deal with many of the overlapping concerns and insights of the fields of psychology and religion. Both ask questions about the general nature of humans as well as about how they live and ought to live. This course will investigate some of the significant impacts psychology has made on traditional religious faith and some of the ways it is recognized that religion has an influence upon mental health. Prerequisite: junior or senior standing.

Ps 321 Psychological Counseling II

3 Crs.

A study of the various dimensions of a helping relationship, including the establishment of goals and the consideration of the practical forces involved. Prerequisite: Ps 285.

Ps 322 Seminar in Interpersonal Relations

3 Crs.

A seminar designed to acquaint the student with current research and techniques in group dynamics, assessment of normal and abnormal behavior and other problems related to interpersonal development. Prerequisite: Ps 215.

Ps 331 Psychological Tests and Measurements

3 Crs.

Principles of test theory in psychology; validity, reliability and standardization of tests; survey of representative types of test and measurements. Prerequisite: Ps 101.

Ps 341 Motivation: Principles and Applications

3 Crs.

A seminar which incorporates experimental exploration of human motives. Three units treat physiological origins of needs, drives and emotions; emotional experience of different motives (role playing, games, and group experiences) and clinical, educational and business applications.

Ps 345 Introduction to Individual Growth and Group Dynamics 3 Crs.

An introduction to the dynamics of personal growth and development coupled with an experiential component designed to enhance individual growth as well as to experience and observe group dynamics. Emphasis is on the dynamics of stress and stress management. This course is limited to special students with demonstrated leadership ability.

Ps 351 Physiological Psychology 3 Crs.

This course examines the molecular and molar views of the nervous and endocrine systems and emphasizes the roles of these systems in behavior. Prerequisite: Ps 101.

Ps 355 Environmental Psychology 3 Crs.

An empirical inquiry into the effects of environment on behavior. Climatic variables, population density, urban stress, territoriality, styles of architecture and spatial patterning are some of the foci of inquiry.

Ps 390-395 Psychological Research 1-6 Crs.

A senior course in which selected students conduct original independent research culminating in a formal written report at the end of the semester. By special arrangement with Chairperson.

Ps 396 Field Experience in Psychology 3 Crs.

An opportunity for advanced psychology majors to bridge the gap between psychological theory and practice. Students learn to apply knowledge gained from readings and the classroom in a supervised practicum setting in area agencies, schools, and institutions. Required workshops focus on career assessment, values clarification, questions of supervision, and personal learnings regarding the field experience. Open to junior and senior psychology majors and minors. Prerequisite: Ps 101, 102 and one other psychology elective.

Religious Studies Courses

Courses with an asterisk * are open to both undergraduate and graduate students.

Rs 101 Introduction to the Study of Religion 3 Crs.

A critical and constructive study of the nature of religion, of its functions in human life and of its various forms and manifestations.

Rs 210* Introduction to Biblical Method and Criticism 3 Crs.

A brief history of biblical criticism leading up to an in-depth analysis of the achievements of recent biblical research in the area of New Testament studies.

Rs 211* Introduction to the Old Testament 3 Crs.

An historical examination of the development of Old Testament traditions as well as a consideration of the historical rise of the people of Israel, the distinctive religious awareness that accompanied it, and Israel's understanding of God, man and history.

Rs 213 Comparative Religion 3 Crs.

A comparative study of the central themes in the major religions of the world—Hinduism, Buddhism, Confucianism, Taoism, Judaism, Christianity and Islam.

Rs 223* The Legacy of Paul 3 Crs.

An examination of the life and letters of Paul; his understanding of man, the world, and the reality of God and His justice.

Rs 224* The Gospel of John 3 Crs.

A critical interpretation of the Gospel of John.

Rs 229* Jesus 3 Crs.

An attempt to recover the words and actions of the historical Jesus through a proper methodological examination of the sources. Special emphasis will be given to the parables of Jesus.

Rs 230 The Death and Resurrection of Jesus of Nazareth 3 Crs.

The course will concern itself with the development of the traditions of the death and resurrection of Jesus which now stand in the gospels of Matthew, Mark, Luke and John. Interest will be taken in isolating those factors that influenced the development as well as in historical matters.

Rs 232* Contemporary Religious Thinkers 3 Crs.

A close examination of the selected, representative writings of a specific religious thinker(s). In any given semester, the course will focus on the work of either an important theologian or a contemporary scholar of religion. (Students should consult the instructor of the course in order to obtain information concerning the topic for that semester.)

Rs 243* The Development of Christian Thought 3 Crs.

The course of the Church's historical and dogmatic traditions will be traced from the New Testament period through contemporary developments in light of the original Christian dynamic.

Rs 245* Contemporary Roman Catholic Thought 3 Crs.

A survey of the various intellectual, political and social movements that have shaped contemporary Roman Catholic life and thought. The course will trace the recent development of Roman Catholic theology, and the special significance of the Second Vatican Council will be explored.

Rs 246* God 3 Crs.

Against the background of early Church Trinitarian and Christological clarifications, and the writings of the Medieval theologians, this course will explore the meaning of "God" in contemporary thought.

Rs 248 Contemporary Protestant Thought 3 Crs.

Barth, Bultmann, Neibuhr, Tillich and Bonhoeffer have all left an indelible mark on present theological thought. This course will explore the major themes that run through the work of these theologians.

Rs 249 Contemporary Jewish Thought 3 Crs.

A survey and comparison of the writings of contemporary Jewish thinkers such as Buber, Heschel, Rosenzweig and Fackenheim.

Rs 257* Contemporary Moral Problems 3 Crs.

An examination of selected moral problems that involve a significant conflict of values in our contemporary pluralistic society: sexual ethics, biomedical ethics (abortion, genetic engineering, behavior modification, euthanasia), revolution and violence, environmental quality, and population policy.

Rs 258* Issues in Religious Ethics 3 Crs.

A study of some of the more important issues confronting the contemporary attempt to construct a philosophically and theologically adequate ethical methodology.

Rs 260* Religion, Person and Society 3 Crs.

An examination of the major contemporary social problem areas: family, education, government, business, and the religious values that can be brought into play to meet them. Special focus on "The Church and the Modern World" of Vatican II and its practical implications today.

Rs 261* Symbol, Myth and Ritual 3 Crs.

The basic categories of symbol, myth and ritual will be defined and their religious significance will be explored. Theoretical analyses of the human symbolic imagination will also be examined.

Rs 262* Family Institute 3 Crs.

(Consult RS Dept. for course topics)

Rs 263* Summer Institute 3 Crs.

(Consult RS Dept. for course topics)

Rs 265* Problems in the Philosophy of Religion 3 Crs.

Some of the principal problems concerning the nature and justification of religious belief and experience from the viewpoints of philosophical analysis and religious existentialism.

Rs 268* Classics of Western Spirituality 3 Crs.

A close examination of the writings of one or more of the great spiritual masters of the western religious traditions (e.g., John of the Cross, Theresa of Avila, Ignatius Loyola, Teilhard de Chardin, Martin Buber, Thomas Merton).

Rs 270* Religious Values and Technology 3 Crs.

This course will look to the specific challenges arising from modern corporate business technology as viewed within the context of an incarnational theology of work and social responsibility.

Rs 271 Science and the Sacred 3 Crs.

An exploration of the differences, similarities and intersections between science and religion. The relation between scientific paradigms and religious myths will be examined, and scientific and religious concepts of "experience" will be compared. Ecclesiastical, medical and scientific roles, practices and institutions will be contrasted, and the attempt to synthesize science and religion will be evaluated.

Rs 272 The Shamanistic Experience 3 Crs.

The Shaman stands on the premise that there is more to the world than the average man sees. The course is concerned with religious vision and literal blindness.

The subject matter is ourselves; the teachers—Carlos Castaneda, Franz Kafka, Jorge Luis Borges, Thoreau, Paul, Jesus, et al.

Rs 273* Women Writers and the Religious Quest 3 Crs.

An encounter with the experience and stories of Atwood, Lessing, Rich, Chopin and other women writers who provide a new orientation to the sacred.

Rs 275 The Mystery of Death 3 Crs.

Death endures as the one certain and inevitable "fact" of life. It stands as the reality that cannot be ignored when the question of the meaning of human existence is raised. It is the intention of this course to allow the revelatory dimensions of death to be. Course taken with the permission of instructor.

Rs 277 Play 3 Crs.

An examination of the reality of play and its relation to the experience of transcendence and the religious life.

Rs 285 Religion and the Human Sciences 3 Crs.

An exploration of the significance of psychology, sociology and other human sciences for contemporary theological understanding. Comparison will also be drawn between the various understandings of the human as derived from scientific and theological humanists.

Rs 289 Religious Values and the Ethics of War and Peace 3 Crs.

The fundamental orientation of the course is constructive. It provides an informed, realistic understanding of the meaning of peace and war and how peace can be worked towards, if not achieved, in the light of basic Judeo-Christian values.

Rs 290* Elementary Hebrew 3 Crs.

Elements of Hebrew grammar and translations of Old Testament prose.

Rs 291 Religious Themes in the American Novel 3 Crs.

A reading of contemporary novels with an attempt to examine their religious nature. What are our writers saying about the meaning of our lives and our deaths? Included in this course will be James Agee, James Baldwin, Truman Capote, Isaac Bashevis Singer and John Updike.

Rs 292 Images of the Religious Experience 3 Crs.

An examination in film of the ways people respond (or fail to respond) to opportunities for personal religious growth, moral decision making, etc. The course will center on viewing, reactions to and techniques of film as religious symbols.

Rs 294* Elementary New Testament Greek 3 Crs.

Introduction to the nominal and verbal systems of Hellenistic Greek designed to provide a basis for reading the Greek New Testament.

Rs 295* Intermediate New Testament Greek 3 Crs.

A study of the syntax of Hellenistic Greek in union with selected readings from the Greek New Testament. The aim of the course is to achieve a moderate reading proficiency at sight.

Social Work Courses

Sw 110 Human Relations

3 Crs.

This course is designed to provide the theory and experiences necessary to develop effective interpersonal skills. The material will be useful for students considering social work as a major or for persons who are interested in developing their interactional techniques for personal or professional use. Special emphasis will be placed upon such skills as listening, confronting, problem-solving, and conflict-management. Heightened self-awareness and the capacity to help others will be stressed.

The class meetings will be divided into two parts— theoretical and practical. The purpose will be for students to develop a conceptual understanding of human relationships, while also having the opportunity to explore and refine new techniques of relating to others personally, and skills used to help others professionally. Thus, the last forty-five minutes of each class will be devoted to group meetings in which students are expected to practice skills and study their patterns of interaction with peers. No prerequisite.

Sw 130 Issues and Problems in the Life Cycle of the Family

3 Crs.

The purpose of this course is to provide students with an understanding of the family as a primary social system in our society. Students will examine the process of family development over its life-span and will explore the problems and challenges at each stage of development. Interactional patterns between parents and children, and techniques of family problem-solving will also be covered in this course. In addition, students will have the opportunity to discover more about their own family systems through application of techniques learned in class.

Emphasis will be placed upon issues and problems of normal family functioning, as viewed through the interrelatedness of individual and family developmental tasks. However, students will also research, and share with the class, other specialized areas of family disturbance. No prerequisite.

Sw 131 Meeting the Needs of the Elderly

3 Crs.

This course introduces students to the problems of older adults in America and how their needs can be met within the realm of the family and through the existing social service system. Topics of discussion will include biological, psychological and social problems; specific needs such as health, mental health, financial security, shelter, leisure time, work and protection from crime will be explored fully. Of particular interest will be the focus upon the special needs of minority, ethnic, women, and rural elderly and the resources for addressing such needs. No prerequisite.

Sw 171 Introduction to Social Work

3 Crs.

This beginning course is designed to give students a basic understanding of social work as a problem solving response to social problems, an understanding of the institutional context of social work practice and an orientation to the values, knowledge and skills which underlie this practice. The course is open to all students who are interested in finding out what social work is all about, and to those who are interested in exploring social work as a possible career choice. It is

the first required course in the major. Prerequisites: Sophomore standing and So 101.

Sw 265 Social Welfare as a Social Institution

3 Crs.

This course in the sequence is designed to help students examine various aspects of the social welfare institution from both a contemporary and historical perspective. The impact of socio-economic and political forces on social welfare policies and programs as they respond to the complexities of human and social problems are examined. Emphasis is placed on the organizational context of the social service delivery system; knowledge of the concept of self-help and its relationship to other helping structures and of citizen participation; knowledge of social welfare resources and of the network of relationships between and among social agencies; and knowledge of the contribution of social work as a profession. Prerequisites: Junior standing, Sw 171 or permission of instructor.

Sw 266 Social Welfare Policy and Services

3 Crs.

The course focuses on the process of defining social problems in the United States and analyzing the impact of policies and policy formulation on people, including an awareness of the differential impact on, and perception by, the various socio-economic classes, and the ethnic, social, religious, age and sex groups in the population. Students are to analyze and identify program and practice inadequacies and gaps, and to apply problem-solving methods to the identification of possible and feasible policy organizational and practice reform options. Prerequisites: Junior standing, Sw 265, So 206 and Po 213.

Sw 267 Human Behavior and the Social Environment I

3 Crs.

This is the first course of a two semester sequence intended to provide students with the theoretical resources and the beginning practice skills necessary for the identification and assessment of situations in which people need help, in enhancing their coping capacities and/or gaining access to resources in order to meet various life tasks and to achieve their aspirations and values. Students are sensitized to the impact of the diverse influences on human development including the biological, the psychological, the socioeconomic and the cultural. The first semester focuses on the development of personality structure as an adaptive mechanism which emerges in the process of interchange between the human organism and its environment. Emphasis in this first semester is on the first stages of the life cycle. Prerequisites: Junior standing, Bi 101, Ps 101 and So 101.

Sw 268 Human Behavior and the Social Environment II

3 Crs.

The second semester course in the HBSE sequence focuses on the ongoing development of personality structure as an adaptive mechanism which emerges in the process of interchange between the human organism and its environment. Various theoretical perspectives useful in understanding human behavior in the social environment are analyzed and applied to assessment and intervention techniques. Emphasis in this semester is on the middle and later stages (adulthood and aging) of the life cycle. Through the Human Behavior sequence, the student acquires an aware-

ness and understanding of human diversity and of human systems. Prerequisite: Sw 267.

Sw 275 Social Work Practice I 3 Crs.

This course is an introduction to the generic model of social work practice. It is designed to provide students with a knowledge of social work practice components, a structural analysis of its purposes, functions, and tasks/skills components, as well as the professional value base upon which it rests. Using systems theory as a frame of reference, social work practice is analyzed as a planned change and problem-solving process. Data collection and analysis, problem assessment, goal-setting, client-system contracting, interviewing, problem-solving, referral and linkage skills are taught. Prerequisites: junior standing and Sw 181. Corequisite: Sw 267.

Sw 278 Junior Field Practicum 4 Crs.

Intermediate Social Work majors (Juniors) are assigned two days per week in a human service agency where field instructors offer professional supervision. The Junior Practicum is designed to help students learn how to enter a social agency system as a professional social worker. In the context provided by agency policy and the student's contractually defined role within the agency, the student should develop facility in making contact with clients and potential clients and in linking these clients with resources both within the agency and outside the agency. Prerequisite: Departmental evaluation for admission to intermediate major status. Corequisites: Sw 268 and Sw 279.

Sw 279 Junior Field Practicum Seminar 2 Crs.

The Junior Field Practicum Seminar is designed to facilitate, reinforce and support learning in the Practicum. It will guide the student in the process of directing his/her own learning and assist in the early professional socialization of the student. Corequisite: Sw 278.

Sw 335 Child Welfare Services 3 Crs.

The purpose of this course is to examine the full range of Child Welfare Services in America. Initially, the class will explore the various services designed to meet the needs of children, as well as the laws which protect the rights of children in our society. Following this overview students will be introduced to the subject of child abuse/neglect and the dynamics of this social problem. The major focus of the course, however, will involve development of practice skills which are specific to the role of the child welfare worker. Such issues as permanency planning, attachment and separation, dealing with resistance, burn-out, and use of legal authority, are all centered to practice in the child welfare setting and will be covered during the semester. Development of the professional relationship and skills in assessment and planning will be emphasized throughout the semester as key elements of social work practice in the provision of child welfare services. Prerequisite: Permission of instructor.

Sw 375 Social Work Practice II 3 Crs.

This second semester continues with the examination of modalities which can be used in interventions, with individuals, families, groups, communities, organizations, and service-delivery systems which began in Sw 275. Emphasis is placed on the study and acquisition

of practice knowledge and skills necessary to implement planned change. Theory related to practice is covered in lectures, readings, class discussions, and experiential applications. Prerequisite: Sw 275. Corequisites: Sw 378 and Sw 379.

Sw 378-379 Senior Field Practicum 8 Crs.

The Senior Field Practicum takes place over the entire Senior year and covers two semesters. It consists of the assignment of senior students for two days per week in a human service agency where a field instructor offers individualized professional supervision. It provides experiential learning to help students integrate theory with practice and to develop appropriate practice skills and knowledge, along with professional identification, values and attitudes. Opportunity is afforded to apply and test concepts and theory presented both in class and field situations. Prerequisite: Departmental evaluation for admission to degree candidacy status. Corequisites: Sw 380 and Sw 381.

Sw 380-381 Senior Field Practicum Seminar 4 Crs.

These two seminars are taken also over a period of two semesters concurrently with Sw 378-379. The Senior Practicum Seminars facilitate, reinforce and support learning in the practicum. Emphasis is on the integrating of theory with practice, on understanding applications of theory from the entire curriculum to practice. These seminars help guide students in the process of directing their own learning, foster their capacity for self-evaluation and prepare them for the assumption of professional responsibility for their own practice. Corequisites: Sw 378 and Sw 379.

Sw 390 Research Methods for Social Work 3 Crs.

This course is designed to give students the research skills needed to effectively support social work practice. Emphasis is on familiarity with the language of research, understanding of the logic and of the conceptual tools of scientific inquiry, understanding of strategies of research designs and their uses, knowledge of evaluative research methods and of social indicators, appreciation of the relationship between research and theory to problem-solving effort in social work, and most important the ability to intelligently read and interpret research articles. Since some of the activities of the research course are highly integrated to the Senior Field Practicum, students must take the research course concurrently with the second semester of the Senior Field Practicum. Prerequisite: Senior standing. Corequisites: Sw 380 and Sw 381.

Sociology Courses

So 101 Principles of Sociology 3 Crs.

An introduction to the study of human behavior as shaped by the contexts of individuals, groups, society, and culture. The basic terminology, concepts, theories and methods of sociology as an empirical science.

So 121 Social Problems 3 Crs.

The sociology of human crises. Social disorganization and its symptoms. Seeks to understand the human dimension in the cause and effect patterns within which crises develop and looks for solutions to them.

So 185 Social Stratification**3 Crs.**

Institutionalized social inequality in wealth, prestige and power. Theoretical explanations of such inequalities and factual information on systems of stratification. Analysis of stratification in the U.S.A. Prerequisite: So 101.

So 201 Women in the Professions**3 Crs.**

This course analyzes the status of professional women in the different professions. Institutionalized forms of sexism rampant in some professions are studied emphasizing possible solutions and their effects on existing social values. Prerequisite: So 101.

So 203 Human Sexuality**3 Crs.**

The sociology and anthropology of sexual identity and behavior.

So 206 Society and Economic Issues**3 Crs.**

This course is designed for anyone interested in understanding the social impact of the economics of our time and the policy issues which affect us and our communities. The following topics are discussed with an emphasis on their social dimension: inflation, federal, individual and corporate taxation, the negative income tax, economic policies regarding pollution, economic aspects of the health care industry and education.

So 215 Social Psychology: Macroprocesses**3 Crs.**

Emphasis in this course is on the social and cultural factors which influence individual behavior in group processes. Socialization, social interaction, social influence and conformity, decision making, attitudes, opinions and other related topics are covered. Prerequisite: So 101.

So 219 Social Change**3 Crs.**

Consideration of various theories and models of social-culture change: cultural diffusion, social movements, conflict, social evolution and planned change. Strategies and tactics for changing social systems. Prerequisite: So 101.

So 228 Corporate Sociology**3 Crs.**

A study of the relationship between the modern business corporation, the political system, the cultural system and the individual. Topics will include the corporation and the business world as a social system, the relations of power between the corporate sector and the political system, the culture of the corporate society and the effects of corporate work on the individual's personality, family, leisure time and personal relationships. Prerequisite: So 101.

So 231 Marriage and the Family**3 Crs.**

Family as a major social institution. Changing role, structure and functions of the modern family. Rural-urban, social class and ethnic differences in family organization. Marriage and family as a developing system of interpersonal relationships. Prerequisite: So 101.

So 238 Medical Sociology**3 Crs.**

The student will be introduced to the sociology of medicine in this course. Scrutinization of the relationship of illness to class, race, sex, age and culture. Discussion of the structure and dynamics of America's health-delivery system, or the institutional-

ization of health care and mental health care. A close look into the consequences of government involvement in health care with special attention on Medicare, Medicaid and National Health Insurance. Probing of the growing alternatives to professionalized medicine, namely community medicine, paraprofessionalism, self-help groups and holistic medicine. Prerequisite: So 101.

So 242 Urban Sociology**3 Crs.**

Analysis of the structures and processes that make up the form of human settlement known as the "urban community." From town, to city, to metropolis, to megalopolis, to ecumenopolis. Changes in social scale, in social organization and in culture which accompany increasing size, density and heterogeneity of urban communities. Prerequisite: So 101.

So 243 Political Sociology**3 Crs.**

Analysis of the social bases of political behavior and of the impact of social structure on political organization. Discussion of empirical studies, of voting patterns, decision making and community power with a special attention to the factors determining the amount of power exercised in a society and the degree of its concentration in formal political structures. Emphasis on political socialization in industrialized states and the issues of political development in emerging nations. Prerequisite: So 101.

So 260 American Minorities**3 Crs.**

A sociological analysis of minority status and its impact on the life chances of minority group members. The course covers the whole spectrum of human diversity as reflected in the minority status of racial, ethnic, gender, age and deviant groups. Emphasis is given to the experiences and relationships of these groups with the dominant culture; cultural pluralism is explored as an alternative. Prerequisite: So 101.

So 271 Criminology**3 Crs.**

The nature and extent of crime, theories of causation, types of crimes and analysis of the effort to cope with criminal behavior. Prerequisite: So 101.

So 275 Deviance and Social Control**3 Crs.**

Theory and research on deviant behavior with emphasis on sociological approaches to causality, societal reaction and the social-psychology of the deviant. Function and dysfunction of deviant behavior for society and the individual. Methods and institutions of social control. Prerequisite: So 101.

So 276 Juvenile Delinquency**3 Crs.**

Sociological analysis of delinquent behavior. Legal and sociological theories of causation. Prerequisite: So 101.

So 281 Demography**3 Crs.**

The analysis of population: size, composition and distribution in geographical space. Population change through fertility, morality, migration and social mobility. Planning for and projecting changes in population. Prerequisite: So 101.

So 286 The Sociology of Education**3 Crs.**

Education as a social institution: problems, stresses and tensions in relation to minority situations; education in the urban scene and within the American culture. Critique of policies, consideration of potentials and possibilities. Prerequisite: So 101.

So 289 Delinquency Prevention**3 Crs.**

An analysis of society's attempts to prevent and modify delinquent behavior. The purpose of the course is to examine the assumptions, operations and effectiveness of programs dealing with delinquency. Prerequisite: So 276 or permission of instructor.

So 291 Methods of Social Research I**6 Crs.**

This sequence covers the scientific method, the distinctive features of social science and other orientations under which social research is conducted. Attention is given to exploratory, descriptive and explanatory research designs, and to the logic of experimental evaluation and survey research. Also examined are measurement of social variable, data collection, quantitative analysis of data, sampling, coding of data for computer processing, packaged computer programs for data analysis, interpretation of computer output and the characteristics of research reports. Prerequisite: So 101 and junior standing.

So 297 Sociology of Religion**3 Crs.**

Origin and development of religious institutions. A sociological analysis of religion and its social significance. Prerequisite: So 101.

So 303 Sociological Theories**3 Crs.**

Origins and development of sociological thought in Europe and in America in terms of its recurrent problems, its basic concepts and its relation to contemporary sociological theory. The classical sociological theorists. Prerequisite: So 101 and junior standing.

So 319 Collective Behavior and Social Movements**3 Crs.**

Sociological analysis of social panic, crazes and fads, mobs, crowds, social movements, revolutions and other forms of collective behavior. Prerequisite: So 101.

So 321 Contemporary Sociological Thought**3 Crs.**

This is a seminar designed to introduce students to four of the dominant contemporary sociological perspectives: functionalism, conflict theory, interactionism and exchange theory. The "ethnomethodological alternative" to these dominant theoretical perspectives is also covered.

So 328 Sociology of Complex Organization**3 Crs.**

Analysis of formal bureaucratic organizations, theory and research on structures and processes of large scale organizations in western society. Emphasis is also given to the analysis of organizational change. Prerequisite: So 101 and a minimum of 6 or more credit hours in sociology.

Aging in Contemporary America**3 Crs.**

This course addresses itself to the relationship of the aged to the major economic and political systems in America. Sociological focus will be upon the employment sector, the legal system, the government, political lobbies, cities, the health establishment and community organizations. A critique of the present programs designed for the aged is a key topic. Prerequisite: So 101 and junior standing.

So 390 Social Statistics**3 Crs.**

Introduction to the application of basic statistical techniques in the analysis of sociological data. Strongly recommended for those planning graduate work in Sociology. This course is not accepted in lieu of Mt 5. Prerequisite: Mt 002, So 101 and junior standing.

So 391 Methods of Social Research II**3 Crs.**

This course continues where So 291 ends so as to complete the curriculum content specified under So 291. The two courses should be taken back to back as the arrangement of the components of the curriculum will vary from year to year to allow for different projects and applications. Prerequisite: So 291 and junior standing.

So 393 Seminar in Corporate Sociology**6 Crs.**

Independent research projects will be carried out by each student in a corporate setting and under the guidance of the course instructor. Class time will be spent in the discussion of progress and problems in the research process. The stress will be on the applied use of sociological methods and knowledge in a corporate setting and the use of sociological training in a corporate career. Corporate setting will be established by the course instructor. Prerequisites: senior standing and permission of instructor.

So 395 Internship in Social Research**3 Crs.**

Participation in social research conducted and directed by faculty of the department. Prerequisite: So 391 and senior standing.

So 397 Senior Seminar in Sociology**3 Crs.**

Selected topics in sociology. Students expected to present well-prepared papers or oral presentations in class. Prerequisite: Permission of the instructor and senior standing.

So 399 Independent Study**3 Crs.**

Credits and work by special arrangement with departmental faculty.

Division of Mathematics and Science

Dr. Raoul A. DeVilliers, Dean

The Division of Mathematics and Science provides a foundation that is useful, if not necessary, in the pursuit of a career in mathematics or science. By offering both modern and relevant courses that respond to the needs of an ever-increasing technical society, students will obtain the basic undergraduate requisites for advanced study and for successful employment in industry or other professional areas.

Departments and Programs

Allied Health Sciences

Dr. Christ J. Verses, Program Director

Biology

Dr. William T. Gnewuch, Chairperson

Chemistry and Physics

Dr. Babu George, Chairperson

Computer Science and Data Processing

Mary Ann Robbert, Program Director

Master of Science in Applied Operations Research

Dr. R.G. Selvanathan, Program Director

Mathematics, Operations Research and Computer Science

Dr. Jean T. Sells, Chairperson

Medical Technology

Robert Sullivan, Program Director

Nursing

Maureen Avery, Acting Chairperson

ALLIED HEALTH SCIENCES PROGRAM

Associate of Arts in General Studies with an Emphasis in Allied Health

Sacred Heart University offers an Associate of Arts degree in general studies in Allied Health Sciences in affiliation with St. Vincent's Medical Center School of Nursing and the Bridgeport Hospital School of Nursing. Both are nationally accredited by the National League of Nursing. This joint effort between the hospitals and Sacred Heart University gives students the opportunity of upward mobility in their continued education in the field of nursing.

Students at Bridgeport Hospital and St. Vincent's Medical Center are required to take general education courses at the University in addition to their major nursing courses to qualify for the nursing diploma. Students completing the requirements at both the University and the hospital receive a diploma and are eligible to take the State Board Licensing Examination for the registered nurse.

Required University Courses For Diploma:

Bi 005	Introduction to Nutrition
Bi 031-032	Anatomy and Physiology I,II
Bi 061	Introduction to Microbiology
Ch 007	Principles of Chemistry
En 011	Freshman Rhetoric: Shorter Forms
Ps 101	General Psychology-Scientific Aspects
Ps 252	Child Developmental Psychology
Ps 272	Adolescent-Old Age Psychology
So 101	Principles of Sociology

Required University Courses for A.A. Degree:

In addition to courses required for diploma:

En 012	Freshman Rhetoric: Longer Forms
Ca 021	Effective Communication

Six credits from Area I

Six credits from Area VI

A minimum of 20 credits must be taken at Sacred Heart University in order to fulfill the residency requirement.

DEPARTMENT OF BIOLOGY

The curriculum in the Department of Biology is designed to provide a foundation in all the basic areas of biology and to give the student excellent preparation for the study of medicine, dentistry and other health related professions, graduate studies in various areas of biology, employment in industrial research and for a career in secondary biological education.

To accomplish these objectives, the Department of Biology offers three options within the major: the Medically Oriented program, the Environmentally Oriented program and the Biology Education program.

All programs require the introductory course, Concepts of Biology (Bi 111-112), which provides the student with the foundation in the various aspects of modern biology. Freshmen who have not declared a final major may take Nature of Life (Bi 010). Successful completion of Bi 010 will allow the student to enter the second half of Concepts of Biology (Bi 112) and from there into the major curriculum. Each program has a minimum requirement of 36 credits of required major courses, 12 credits of elective major courses and varying credits in supporting courses in chemistry, mathematics and physics.

The biology programs are interchangeable to the end of the sophomore year, at which time the student is expected to make a definite choice. The Medically Oriented program is designed to conform with the requirements of the American Medical Association.

Required Courses:**MEDICALLY ORIENTED PROGRAM (56 credits)****1. Required Biology Courses (36 credits)**

Bi 111-112	(8)
Bi 212	(4)
Bi 220	(4)
Bi 230	(4)
Bi 311	(4)
Bi 312	(4)
Bi 340	(4)
Bi 350	(4)

2. Required Supporting Courses (20 credits)

Ch 011-013	(4)
Ch 012-014	(4)
Ch 111-113	(4)
Ch 112-114	(4)
Mt 015	(4)

ENVIRONMENTALLY ORIENTED PROGRAM (55/56 credits)

1. Required Biology Courses (36 credits)

Bi 111-112	(8)
Bi 210	(4)
Bi 212	(4)
Bi 220	(4)
Bi 230	(4)
Bi 312	(4)
Bi 350	(4)
Bi 375	(4)

2. Required Supporting Courses (19 or 20 credits)

Ch 011-013	(4)
Ch 012-014	(4)
Ch 111-113	(4)
Ch 112-114	(4)
Mt 005 or	
Mt 010	(3 or 4)

BIOLOGY ELECTIVES

A minimum of 12 credits of biology electives is required to enhance career opportunities. Students should be aware that most graduate and professional schools (medical, dental, veterinarian) require this absolute minimum of an additional 12 elective credits in biology.

ADDITIONAL ELECTIVE COURSES

The Department of Biology recommends that students elect additional courses in the areas of chemistry, computer science, and mathematics.

BIOLOGY—EDUCATION PROGRAM

Either of the two programs outlined above may be combined with appropriate courses in education and practice teaching for the attainment of certification for secondary schools. Students electing this program will be advised jointly by the Departments of Biology and Education.

DEPARTMENT OF CHEMISTRY AND PHYSICS

The Department of Chemistry offers a balanced curriculum which insures a thorough, modern education in chemistry. In addition to providing the student with the necessary preparation for graduate study in the various areas of chemistry and/or employment in the chemical industries, the chemistry major program, coupled with selected supporting courses, provides an excellent preparation for the study of medicine, dentistry and other health related professions. In order to accomplish these objectives, the Department of Chemistry offers five options within the major.

1. Chemistry—Basic Program

This is the traditional program designed for those students desiring a curriculum with strong supportive courses in mathematics and physics. The program is recommended for graduate study in chemistry or as a preparation for an industrial position.

2. Chemistry—Biochemistry Concentration

This program is strongly recommended as preparation for future careers in biochemistry, clinical chemistry, pharmaceutical chemistry and environmental chemistry. This is the program of choice for pre-medical and pre-dental students who are chemistry majors. The program is also suitable for graduate study in biochemistry and pharmacology.

3. Chemistry—Education Program

The program is designed for those students desirous of teaching on the secondary level.

4. Chemistry—Business Concentration

In addition to receiving an excellent education in chemistry, the student will be prepared in the basic aspects of the business world. The program is recommended as a preparation for an industrial position. The student will be better prepared to enter graduate programs such as the MBA.

5. Chemistry—Computer Science Concentration

This program adds an integral interdisciplinary dimension to the traditional undergraduate chemistry curriculum. Due to the increased importance of computer science and its accepted position in technology, this program should increase the career opportunities whether their goals are job placement or graduate study. In addition to providing courses for the major program, the Department also provides courses for the Biology and Medical Technology majors, Nursing students and for non-science majors.

Chemistry—Basic Program

Required Chemistry Courses

Ch 011-012	General Chemistry I, II
Ch 013-014	Elementary Quantitative & Qualitative Analysis I, II
Ch 111-112	Organic Chemistry I, II
Ch 113-114	Organic Chemistry Laboratory I, II
Ch 211	Analytical Chemistry
Ch 213	Analytical Chemistry Laboratory
Ch 237-238	Physical Chemistry I, II
Ch 239-240	Physical Chemistry Laboratory I, II
Ch 312	Instrumental Analysis
Ch 314	Instrumental Analysis Laboratory

Required Supporting Courses

Mt 010	Pre-Calculus (waived on examination)
Mt 015	Introduction to Calculus
Mt 016-104	Mathematical Analysis I, II
Py 121-122	Principles of Physics I, II

Chemistry Electives

The department strongly recommends a minimum of 10-12 credits of chemistry electives. This is required to enhance career and graduate study opportunities.

Ch 200	Safety in the Chemistry Laboratory
Ch 210	Organic Qualitative Analysis
Ch 215	Chemical Applications of Mathematics
Ch 216	Biochemistry
Ch 217	Clinical Biochemistry
Ch 218	Biochemistry Laboratory
Ch 219	Clinical Biochemistry Laboratory
Ch 220	Seminar in Chemical Literature
Ch 248	Polymer Chemistry
Ch 301	Industrial Aspects of Chemistry
Ch 305	Computer Applications in Chemistry

- Ch 338 Advanced Inorganic Chemistry
 Ch 339 Undergraduate Research
 Ch 350 Special Topics in Chemistry

Additional Courses Recommended:

- Bi 111-112 General Biology I, II
 Cs 011 A First Course in Computer Science
 Cs 012 Introduction to Applied Computation
 Foreign Language—German

Chemistry — Biochemistry Concentration

Required Chemistry Courses

- Ch 011-012 General Chemistry I, II
 Ch 013-014 Elementary Quantitative & Qualitative Analysis I, II
 Ch 111-112 Organic Chemistry I, II
 Ch 113-114 Organic Chemistry Laboratory I, II
 Ch 211 Analytical Chemistry
 Ch 213 Analytical Chemistry Laboratory
 Ch 216 Biochemistry
 Ch 217 Clinical Biochemistry
 Ch 218 Biochemistry Laboratory
 Ch 219 Clinical Biochemistry Laboratory
 Ch 236 Physical Chemistry for Life Sciences*

*Ch 236 may be replaced with Ch 237-238

Required Supporting Courses

- Mt 010 Pre-Calculus (waived on examination)
 Mt 015 Introduction to Calculus
 Mt 016 Mathematical Analysis I
 Py 111-112 General Physics I, II or
 Py 121-122 Principles of Physics I, II
 Bi 111-112 Concepts in Biology I, II

In addition to the above courses, at least two of the following are required for Pre-med, Pre-dental, Pre-veterinary and Allied Health Professions.

- Bi 212 Animal Development
 Bi 220 Introductory Genetics**
 Bi 230 Microbiology
 Bi 260 Marine Biology
 Bi 311 Cell Physiology
 Bi 312 Systems of Physiology**

**Strongly recommended

Chemistry Electives

A minimum of 10-12 credit hours in the following courses is strongly recommended.

- Ch 200 Safety in the Chemistry Laboratory
 Ch 210 Organic Qualitative Analysis
 Ch 215 Chemical Applications of Mathematics
 Ch 220 Seminar in Chemical Literature
 Ch 301-302 Industrial Aspects of Chemistry I, II
 Ch 305 Computer Applications in Chemistry
 Ch 312 Instrumental Analysis
 Ch 314 Instrumental Analysis Laboratory
 Ch 338 Advanced Inorganic Chemistry
 Ch 339 Undergraduate Research
 Ch 350 Special Topics in Chemistry

Additional courses strongly recommended are:

- | | |
|--------|-------------------------------------|
| Cs 011 | A First Course in Computer Science |
| Cs 012 | Introduction to Applied Computation |
| | Foreign Language—German |

Chemistry — Education Program

Required chemistry courses and supporting courses are the same as those required for the basic chemistry program. For the required education courses, please consult the "Manual for Applicants and Candidates in Chemistry."

Chemistry — Business Concentration

In addition to the required chemistry courses and supporting courses for the basic chemistry program, the students must take Ch 301 Industrial Aspects of Chemistry. For required business courses and further information about the program, please consult the Department of Chemistry or the "Manual for Applicants and Candidates in Chemistry."

Chemistry — Computer Science Concentration

In addition to the required chemistry courses, as described in the basic chemistry program, the students must take Ch 305, Computer Applications in Chemistry. The required supporting courses are the same as in the Basic Chemistry Program. For the required computer science courses and for further information about the program, consult the "Manual for Applicants and Candidates in Chemistry."

Pre-Medical Program

This program is designed to give the student a proper educational background to prepare him/her to join a professional college or university. The student will receive a balanced education consisting of biology, chemistry, mathematics, English, social sciences and humanities. Sacred Heart wishes to train scientists who have humanistic values to pursue a career in medicine, dentistry or in related professions.

For further information about the Pre-Medical Program, please call or write: Dr. Babu George, Pre-Med Advisor, Sacred Heart University, Bridgeport, CT 06606.

Post-Baccalaureate Pre-Medical Program

This program caters to the need of those students who have completed a Bachelor's Program and who may decide to return to college to pursue a career in science or to apply to professional schools.

For further information please call or write: Dr. Babu George, Pre-Med Advisor, Sacred Heart University, Bridgeport, CT 06606.

MAJOR IN COMPUTER SCIENCE

The introduction of computers and their subsequent use in society is one of the most significant developments of the mid-20th century. Established about 35 years ago, the computer industry today is one of the largest in the United States. Computer technology is still developing at an ever increasing pace and the uses of computers in society are increasing in number and scope. The use of computers in all types of information processing can be considered one of the most promising growth areas in the United States in the next thirty years.

In keeping with the development, growth and diversification within the computer field, the baccalaureate program in computer science has been designed to address the two major concentrations existing today: the scientific and information options.

A graduate with a baccalaureate degree in computer science will be well prepared to undertake any graduate program leading to a masters degree or a doctoral degree in

computer science as well as in operations research, applied operations research, applied mathematics or statistics.

Employment opportunities abound in government, business or industry. This program gives one the appropriate foundation for scientific applications of computers in addition to business-oriented uses, such as data processing.

Most reliable sources have pointed out that now and for the foreseeable future, graduates with degrees in computer science will be among the most sought after by all segments of the economy. Not only is the job market bright for computer science graduates, but also the level of income for those entering the field is among the highest of all college graduates.

Facilities

At present there are 17 CRT terminals, eight hardcopy terminals, and a fast-line printer available in the computer terminal rooms at Sacred Heart University. These terminals are connected to the IBM 370/158, IBM 4341 and DEC system 2060 computers at Yale University. Eleven Apple II microcomputers, each with a disk drive unit, and a printer with graphics capabilities are also available.

Another CRT terminal and Apple II microcomputer are located in the computer science seminar room. The video output of these two devices can be projected on a four by six foot screen by a Telebeam II projector.

Through the Yale University Computer Center, the Department has access to several statistical packages and software packages for numerical analysis and linear programming. These include: SPSS, statistical routines; BMD, statistical routines; LIDA, for teaching statistics; Harwell and IMSL packages, subroutines for numerical analysis, linear algebra and optimization; MPSX, IBM linear programming system; and the widely used LINDO for linear programming.

Library

The library's reference collection in mathematics, operations research, and computer science contains over 3,000 volumes.

Required Courses for Scientific Option:

Cs 012	Introduction to Applied Computation
Cs 101	Introduction to Computer Science
Cs 102	Introduction to Systems Programming
Cs 121	Discrete Mathematics and the Analysis of Algorithms I
Cs 122	Discrete Mathematics and the Analysis of Algorithms II
Cs 201	Programming Languages and Compilers
Cs 202	Operating Systems
Cs 211	Advanced Programming
Cs 212	Numerical Computation
Mt 015	Introductory Calculus
Mt 016	Mathematical Analysis I
Mt 103	Linear Algebra
Mt 104	Mathematical Analysis II
Mt 106	Probability and Mathematical Statistics I
Mt 201	Advanced Calculus

Required Courses for Information Option:

Cs 009	Introduction to Data Processing
Cs 015	COBOL Programming
Cs 019	Computer Operations
Cs 101	Introduction to Computer Science
Cs 105	Advanced COBOL Programming
Cs 107	Systems Design
Cs 109	Project Management and Control

Cs 110	Data Processing—Feasibility and Economics
Cs 203	Data Base-Design
Cs 207	Systems Analysis
Mt 001	Modern College Mathematics I
Mt 008	Mathematics for Decision-Making
Bu 201	Organization Management

Recommended Supporting Courses for Information Option:

Ac 101	Principles of Accounting I
Ac 102	Principles of Accounting II
Ac 211	Budgeting for the Manager
Bu 221	Business Communications

Associate Degree in Computer Science

The Associate degree in computer science is designed for high school graduates who intend to make a career in the field of computer science, and college graduates who did not obtain a sufficient level of computer experience during their college years. This two-year program is also helpful to college students majoring in mathematics, operations research or the sciences who wish to supplement their major course sequences in order to increase their employment opportunities after graduation.

Required Courses:

Cs 011	A First Course in Computers
Cs 012	Introduction to Applied Computation
Cs 101	Introduction to Computer Science
Cs 102	Introduction to Systems Programming
Cs 121	Discrete Mathematics and the Analysis of Algorithms I
Cs 122	Discrete Mathematics and the Analysis of Algorithms II
Mt 010	Precalculus
Mt 015	Introductory Calculus
Mt 016	Mathematical Analysis
Mt 103	Linear Algebra
En 011	Freshman Rhetoric: Shorter Forms
En 012	Freshman Rhetoric: Longer Forms
One Computer Science elective	
Three Liberal Arts electives	

Minor Program

Cs 011	A First Course in Computer Science or
Cs 013	Introduction to Programming Microcomputers
Cs 012	Introduction to Applied Computation
Cs 101	Introduction to Computer Science
Cs 102	Introduction to Systems Programming
Cs 211	Advanced Programming

Certificate Program

Cs 011	A First Course in Computer Science
Cs 012	Introduction to Applied Computation
Cs 101	Introduction to Computer Science
Cs 102	Introduction to Systems Programming
Mt 015	Introductory Calculus
Mt 103	Linear Algebra

PROGRAM IN DATA PROCESSING

The Associate degree in data processing is designed for high school graduates who intend to make a career in data processing, and for business students or individuals working with computers in business who want a formal education in data processing in order to advance their careers. Data processing credits will be accepted toward the four-year Information Option.

Required Courses:

Cs 009	Introduction to Computer Science
Cs 015	COBOL Programming
Cs 101	Introduction to Computer Science
Cs 105	Advanced COBOL Programming
Cs 107	Systems Design
Cs 109	Project Management and Control
Cs 203	Data Base Design
Cs 207	Systems Analysis
Mt 001	Modern College Mathematics I
Mt 008	Mathematics for Decision-Making
En 011	Freshman Rhetoric: Shorter Forms
En 012	Freshman Rhetoric: Longer Forms

Three Liberal Arts electives

Two electives

Minor Program

Cs 011	A First Course in Computer Science
Cs 015	COBOL Programming
Cs 105	Advanced COBOL Programming
Cs 203	Data Base Design
Cs 303	Advanced Data Base Design

Certificate Program

Six courses from the following:

Cs 009	Introduction to Data Processing
Cs 015	COBOL Programming
Cs 105	Advanced COBOL Programming or
Cs 303	Advanced Data Base Design
Cs 107	Systems Design
Cs 109	Project Management and Control
Cs 203	Data Base Design
Cs 207	Systems Analysis

A grade of C or better is required in all mathematics and computer science courses. A 2.0 grade point average is also required for the Associate degree and for the minor and certificate in data processing.

MAJOR IN OPERATIONS RESEARCH

Operations research is the application of the scientific method to the study of operations of large complex organizations or activities. Operations research uses the planned approach (scientific method) and an interdisciplinary team in order to represent complex functional relationships as mathematical models for the purpose of providing a quantitative basis for decision making and uncovering new problems for quantitative analysis.

Our major in operations research has a curriculum that is standard in the best operations research departments in the country. These courses constitute excellent electives for math or computer science majors who will seek employment in industry and will permit students to complete the Operations Research major. The major in Operations Research may be combined with a minor in mathematics or computer science.

Required Courses:

Mt 015	Introductory Calculus
Mt 016-104	Math Analysis I, II
Mt 103	Linear Algebra
Mt 106	Elementary Probability
Mt 201	Advanced Multivariable Calculus
Mt 202	Stochastic Processes
Or 012	Introduction to Management Science
Or 121	Mathematical Models in Management Science
Or 132	Math Programming I
Or 133-322	Applications of Operations Research I,II
Or 221	Statistics for Decision Making
Or 321	Decision Analysis
Cs 012	Introduction to Applied Computation
Ec 201-202	Principles of Economics I,II

Recommended Supporting Courses:

Mt 104	Mathematical Analysis II
Mt 345	Theory of Games
Mt 346	Optimization Theory
Cs 101	Introduction to Computer Science
Ac 103-104	Accounting for Managers I,II
Or 340	System Theory
Ps 101	General Psychology-Scientific Aspects
Py 111-112	College Physics I,II

Associate Degree in Operations Research

The requirements for an Associate degree in Operations Research are the same as those in the Minor sequence, providing that all core requirements have been satisfied. An additional nine credits in English is also required.

Minor Program

Mt 015	Introductory Calculus
Mt 103	Linear Algebra
Mt 106	Elementary Probability
Cs 012	Introduction to Applied Computation
Or 121	Mathematical Models in Management Science
Or 132	Math Programming I

DEPARTMENT OF MATHEMATICS, OPERATIONS RESEARCH AND COMPUTER SCIENCE

The aim of the Department of Mathematics, Operations Research and Computer Science is to offer a curriculum that will provide majors with the basic undergraduate requisites for successful advanced study or employment in areas where their skills are in demand.

For some time now, Sacred Heart University has been an institutional member of the Mathematical Association of America (MAA), which is concerned with undergraduate mathematics. In December, 1971, Sacred Heart was also elected by the council of the American Mathematical Society (AMS) to institutional membership. Only some four hundred universities in the country have received such a distinction. In 1981 Sacred Heart University became an institutional member of the Society for Industrial and Applied Mathematics (SIAM). Sacred Heart is a member of the Operations Research Society of America (ORSA) and the Association for Computing Machinery (ACM).

Mathematics Colloquium

Every year several distinguished international scholars from prestigious graduate schools come to the department to talk to students and lecture on topics of various interest in the annual Mathematics Colloquium. Recent lecturers include: Professor Jean A. Dieudonne, a member of the French Academy of Sciences, and Yale professors Nathan Jacobson, George Seligman, Sizhuo Kakutani, Walter Feit, Martin Schultz, Matthew Sobel and Ronald Dembo.

The department celebrated the 10th anniversary of the Math Colloquium in May, 1977. At present, the Colloquium has been extended to offer lectures in operations research and computer science.

MAJOR IN MATHEMATICS

The math curriculum at the University was developed in accordance with recommendations of the Committee on the Undergraduate Programs in Mathematics (CUPM) of the Math Association of America (MAA). It consists of courses in modern analysis, algebra, topology, applied math and computer science electives which prepare our students not only to continue study toward a Ph.D. degree in pure mathematics, but also in statistics, applied science or computer science.

Math majors who wish to obtain a B.S. degree must take, in addition to the requirements for a B.A. degree in mathematics, at least two more science courses. A foreign language, preferably French, is recommended for all mathematics majors.

Mathematics majors are also encouraged to take courses in Operations Research as electives. With the establishment of the majors in Operations Research and Computer Science, students may graduate with a double major in mathematics, operations research or computer science, or with minors in operations research or compute science.

Required Courses:

Mt 015	Introductory Calculus
Mt 016-104	Math Analysis I,II
Mt 103	Linear Algebra
Mt 106	Probability and Mathematical Statistics I
Mt 201	Advanced Multivariable Calculus
Mt 221	Abstract Algebra
Mt 313	Real Analysis
Mt 314	Complex Analysis
Mt 107	Mathematical Probability or
Mt 222	Geometry

Elective Courses:

Py 111-112	General Physics I,II
Mt 232	Applied Mathematics
Mt 315	Topology
Cs 101	Introduction to Computer Science
Cs 012	Introduction to Applied Computation

Medical Technology Program

Sacred Heart University offers a solid medical technology program leading to the baccalaureate degree. The program is a traditional "three-one" program in which the student spends the equivalent of three full academic years at the University (101 credits) and one full academic year at an accredited hospital (30 credits). Upon successful completion of all the requirements at the University and the hospital, the student is prepared to take the national examination to become a Certified Medical Technologist.

The medical technology field is one of the fastest expanding ones in the area of allied health sciences. Medical technologists are employed in hospitals, industrial and private laboratories, and are responsible for the preparation and analysis of clinical samples. Their duties include performing a broad range of procedures in all general areas of the clinical laboratory, making independent and collaborative judgements and working in association with physicians and pathologists. In addition, they may supervise and/or teach laboratory personnel.

Medical Technology Program Policy

1. The successful completion of the Medical Technology Program is contingent upon admission to and satisfactory completion of the clinical program of studies at an accredited hospital school. The University cannot guarantee admission into a clinical program since each hospital school determines which of its applicants will be admitted.
2. Although the granting of the Bachelor's degree in medical technology is not contingent upon the successful passing of any examination given for medical technology certification, Sacred Heart University is not responsible for the student's performance on any examination.
3. The student must sign a waiver stating that the student's records will be available to the Educational Coordinator of Sacred Heart University or persons designated by the coordinator.
4. Prior to final acceptance by a hospital school, a health certificate shall be completed by the student's family doctor stating that the student is in good physical health.
5. In the clinical year the student must purchase insurance through the University's Student Sickness and Accident Insurance program unless evidence of comparable coverage is provided.
6. The student must purchase professional liability coverage under the University's Students Medical Technology Malpractice Policy.

Required Courses at the University

Bi 111	Concepts of Biology I
Bi 031-032	Anatomy and Physiology I,II
Bi 150	Introduction to Medical Technology
Bi 220	Introductory Genetics
Bi 230	Microbiology
Bi 250	Medical Microbiology
Bi 325	Immunology
Ch 011-012	General Inorganic Chemistry I,II
Ch 111-112	Organic Chemistry I,II
Ch 113-114	Organic Chemistry Laboratory I, II
Ch 216	Biochemistry
Ch 217	Clinical Biochemistry
Ch 218	Biochemistry Laboratory
Ch 219	Clinical Biochemistry Laboratory

Required Courses at the Hospital

Mte 301	Clinical Microbiology
Mte 302	Blood Banking and Immunohematology
Mte 310	Hematology
Mte 325	Clinical Microscopy
Mte 330	Immunology Serology
Mte 340	Special Topics in Medical Technology

DEPARTMENT OF NURSING

The Bachelor of Science with a major in Nursing is designed to provide the community of southwestern Connecticut with an educational mobility program in nursing to meet the career needs of registered nurses from accredited associate degree and diploma programs, and to provide the community's health care consumers with baccalaureate-educated nurse generalists prepared to assume a wider scope of practice in and outside of traditional in-patient facilities. The degree program also provides registered nurses with the requisite foundation for graduate specialization in nursing.

To receive a baccalaureate degree in nursing, RN's must complete 124 credit hours of study, 77 credit hours in prescribed general education courses with a 2.0 quality point average and 47 credit hours in the major. The professional major is built upon a core of liberal arts, humanities, social sciences, natural sciences and mathematics. Prior to entry into the major, specific prerequisite supporting courses must have been completed at Sacred Heart, at another accredited college or by college level examination.

PREREQUISITES:

Bi 031-032	Anatomy and Physiology I, II
Bi 061	Introduction to Microbiology
Bi 005	Introduction to Nutrition
Ch 007	Principles of Chemistry
Ch 009	Principles of Organic and Biochemistry
Ps 101	General Psychology
Ps 252	Child Development Psychology
Ps 272	Adolescent-Old Age Psychology
So 101	Principles of Sociology
Mt 001	Modern College Mathematics I

After acceptance into the nursing major additional courses are required.

Required Courses:

ACT-PEP Examination #457 Maternal-Child Health Nursing*
 ACT-PEP Examination #503 Psychiatric-Mental Health Nursing*
 ACT-PEP Examination #554 Adult Nursing*
 Clinical Proficiency Examination*

Only biology courses with laboratories may be taken for core credit.

Nu 200	Foundations of Professional Nursing
Nu 251	Nursing Practice in Individual/Group Health
Nu 253	Health Pattern Dysfunction and the Nursing Process
Nu 300	Nursing Practice in Family Health
Nu 351	Nursing Practice in Community Health
Nu 390	Seminar In Role Development
Mt 005	Probability and Statistics
An 102	Cultural Anthropology
Ph 258	Medical Ethics or
Rs 257	Contemporary Moral Problems

One Nursing elective

*Information regarding these American College Testing Program and departmental examinations may be obtained from the department chairman.

COURSE DESCRIPTIONS

Biology Courses

Only biology courses with laboratories may be taken for core credit.

Bi 001 Introduction to Horticulture 3 Crs.

A study in the basic science from which horticultural practices are derived as well as the basic techniques necessary for horticultural production. Lecture and laboratory experience in the greenhouse. Not for core credit.

Bi 005 Introduction to Nutrition 3 Crs.

A study of the basic concepts of nutrition as well as current controversies. The course includes problems of food choices in relation to body needs and of designing and consuming a balanced diet for sound nutrition throughout life.

Bi 010 The Nature of Life 4 Crs.

An introduction to basic biology concepts with emphasis on the molecular and cellular nature of life, energy systems in plants and animals, origin of life, reproduction and basic evolutionary strategies. Three lectures and two hours of experiment and discussion per week. Lab fee \$15.

Bi 020 Heredity and Society 4 Crs.

A course in genetics designed for the non-science major. The material includes the physical basis of inheritance, the molecular nature of genetic information and the effect of recent findings on society. Three hours lecture and two hours laboratory-discussion per week. Lab fee \$15.

Bi 031-032 Anatomy and Physiology I, II 8 Crs.

A study of the structure of cells, tissues and organ systems, their functional interrelationships and control mechanisms. Laboratory periods provide practical experience in understanding these concepts through microscopic observation, dissection and experimentation. Required for nursing students. Three hours lecture and one three hour laboratory period per week. Non-nursing students are advised to consult instructor before registering for this course. Lab fee \$30.

Bi 033 Human Biology 4 Crs.

The human body systems beyond the level of Bi 101. Physiological and biochemical considerations are correlated with anatomy and the general processes of integration and control, maintenance and reproduction. Three hours lecture and two hours laboratory-discussion per week. Lab fee \$15.

Bi 034 Human Reproduction and Development 4 Crs.

Includes anatomy of male and female sexual systems, physiology of sexual functions, sex hormones and the reproductive period, the formation, nature and union of gametes in vivo and in vitro, conception, pregnancy and childbirth. The developing structure of the early embryonic and extra-embryonic systems is emphasized along with methods of contraception as well as types of sexual disorders and diseases. Prerequisite: Bi 101 or college biology.

Bi 050 Pollution in Fairfield County:

A Practical Examination

4 Crs.

A practical examination of the main pollution problems in Fairfield County, their causes, alternative solutions and evaluation of the favorable and unfavorable effects of these solutions. Air, water, solid waste and noise pollution are covered along with the problems of population density. The course material is general enough to be applicable to other urban-suburban areas. Three lectures per week. Prerequisite: Bi 101 or college biology.

Bi 051 Introduction to Marine Biology 4 Crs.

An introduction to the biology of marine organisms with emphasis on natural history, adaptations to the environment and ecological interrelationships. Extensive field trips will enable students to observe and study marine organisms from a variety of habitats. Prerequisite: Bi 101 or college biology.

Bi 052 Man and the Environment 4 Crs.

An inquiry into the interactions of man and environment including population and cultural problems, the use and misuse of physical, chemical and biotic resources and the nature of proper management systems. Three hours lecture and two hours laboratory-discussion per week. Lab fee \$15.

Bi 061 Introduction to Microbiology 4 Crs.

An introduction to the study of microorganisms including their basic morphology, cultivation, metabolism and genetics. Infectious diseases caused by them are also considered. Emphasis is placed on the bacteria, viruses and fungi. Laboratory work stresses sterile technique, the study of microscopic, cultural and biochemical characteristics as well as control of microorganisms. Required for nursing students. Three hours lecture and one three hour laboratory period per week. Non-nursing students are advised to consult instructor before registering for this course. Lab fee \$30.

Bi 080 Evolution and Survival 4 Crs.

The survival mechanisms of organisms, communities and ecosystems as related to the nature and process of evolution. The course provides a view of evolutionary process and production in terms of time, adaptation, selection and extinction. Three hours lecture and two hours laboratory-discussion per week. Lab fee \$15.

Bi 081 The Origin and Evolution of Man 4 Crs.

Includes a survey of the possible progenitors of man, modes of primate evolution, the roots of humanity and hominid beginnings, an in-depth survey of significant discoveries of hominid fossils and tools, the Great Rift Valley of Eastern Africa as the cradle of mankind, conflicting theories of the geographical origin of modern man (*H. sapiens*) and the development of bipedalism and brain growth. Consideration will be given to the theory of creationism as well as the theory of evolution. Three hours lecture and two hours laboratory-discussion per week. Lab fee \$15.

Bi 111-112 Concepts in Biology I, II 8 Crs.

An experimental approach to major concepts in modern biology from both the molecular and descriptive viewpoint. Emphasis is placed on the diversity and interrelationships of all living organisms. Major topics include the origin of life, cellular energetics and metabolism, homeostatic relationships, integration and

coordination, mechanisms of heredity, reproduction and evolution. This course is required of all biology majors and open to all psychology majors and with the permission of the department and to other qualified students. Three hours of lecture and three hours of laboratory per week. Lab fee \$30 per semester. Prerequisite: Permission of the department.

Bi 210 Plant Growth and Development 4 Crs.

The life of the plant will be considered from the viewpoint of both physiology and morphology. Emphasis will be laid on the experimental investigation of the plant's response to varying environmental conditions. Three lectures and three hours of laboratory per week. Lab fee \$30. Prerequisites: Bi 111, Ch 011 and Ch 012 or permission of the department.

Bi 212 Animal Development 4 Crs.

A study of gametogenesis, embryogenesis, morphogenesis and evolutionary differentiation among vertebrates. The biochemical control of development and the major systems are considered. Laboratory work in gametogenesis, meiosis, cell differentiation and organ systems in selected vertebrates. Three lectures and three hours of laboratory per week. Lab fee \$30. Prerequisites: Bi 111, Bi 112, Ch 011 and Ch 012.

Bi 220 Introductory Genetics 4 Crs.

A study of Mendelian inheritance, the cytological basis of inheritance and molecular genetics. Three hours of lecture and three hours of seminar per week. Prerequisites: Bi 111, Bi 112, Ch 011 and Ch 012. Prerequisites for Medical Technology majors: Bi 111, Ch 011 and Ch 012.

Bi 230 Microbiology 4 Crs.

A study of patterns of microbial physiology and ecology. Laboratory concentrates on identification of bacterial species. Three hours lecture and three hours laboratory per week. Lab fee \$30. Prerequisites: Bi 111, Bi 112, Ch 011 and Ch 012. Prerequisites for Medical Technology majors: Bi 111, Ch 011 and Ch 012.

Bi 235 Histology 4 Crs.

A study of the microscopic anatomy of tissues, organs and cells of the human body designed to provide the student with a basic understanding of the structural correlates of function. The laboratory introduces histological methods and gives practice in the identification of human tissues. Lab fee: \$30. Prerequisites: Bi 111, Bi 112, Ch 011 and Ch 012.

Bi 240 Invertebrate Biology 4 Crs.

A study of the major invertebrate phyla including a consideration of phylogenetic relationships and morphological and physiological adaptations related to the ecology or level of organization of each phylum. Laboratory and field work. Three lectures and three hours of laboratory per week. Lab fee \$30. Prerequisites: Bi 111, Bi 112, Ch 011 and Ch 012.

Bi 250 Medical Microbiology 4 Crs.

A comprehensive study of pathogenic microorganisms with the emphasis on bacteria. The laboratory deals with the extensive use of differential and selective media for the identification of these microorganisms. In addition, biochemical and select immunological

tests are used to augment the preliminary ones. Three lectures and one three hour laboratory per week. Lab fee \$30. Prerequisite: Bi 230.

Bi 260 Marine Biology 4 Crs.

An introduction to biological oceanography. The interrelations between organisms of the sea and their physical and chemical environment. Emphasis is placed on ecology and taxonomy of Connecticut estuarine fauna in the laboratory and on field trips. Three lectures and three hours of laboratory-field work per week. Lab fee \$30. Prerequisites: Bi 111, Bi 112, Ch 011 and Ch 012.

Bi 270 Principles of Animal Parasitology 4 Crs.

A comprehensive study of the biology of common animal parasites: their classification, morphology of adult and larval stages, patterns of life cycles, ecological requirements of all stages in the physical and biological environments and the means of transmissions of all stages. Emphasis on parasites of humans. Lab fee \$30. Prerequisites: Bi 111, Bi 112, Ch 011 and Ch 012.

Bi 290 Introduction to Medical Technology 1 Cr.

A one semester course dealing with the different aspects of Medical Technology. The course introduces the student to the various areas of medical technology (i.e. hematology, clinical microscopy, etc.) and teaches the individual what a medical technologist does. Also included in the course are proper interviewing techniques and proper resume writing. Only for Medical Technology students.

Bi 311 Cell Physiology 4 Crs.

The physiological principles governing the functions of cells with molecular biology as the basis. Topics include enzyme chemistry, sources and distribution of energy, cellular metabolic pathways, protein synthesis and membrane transport. Laboratory includes biochemical analysis, enzyme kinetics and biochemical pathway studies. Three lectures and three hours of laboratory per week. Lab fee \$30. Prerequisites: Bi 111, Bi 112, Ch 111 and Ch 112.

Bi 312 Systems Physiology 4 Crs.

The physiology of vertebrate systems with emphasis on the human. Topics include cardio-vascular, respiratory, neural, muscular, digestive, endocrine, reproductive and excretory physiology. Laboratory work includes studies of muscle-protein, quantitative neural impulse conduction, quantitative cardio-vascular parameters and a number of other systems. Three lectures and three hours of laboratory per week. Lab fee \$30. Prerequisites: Bi 111, Bi 112, Ch 111 and Ch 112 or permission of the department.

Bi 320 Advanced Genetics Seminar 3 Crs.

An examination of classic and potentially classic genetic papers from Mendel to the present. Three hours weekly, no laboratory. Prerequisite: Bi 220.

Bi 325 Immunology 4 Crs.

A study of the immune response including characteristics of antigens, antibodies and antigen-antibody interactions. Laboratory work includes agglutination, precipitation, complement fixation reactions, animal inoculations and other immunological techniques. Three lectures and three hours of laboratory per week. Lab fee \$30. Prerequisite: Bi 230.

Bi 330 Virology**4 Crs.**

Introductory course including various plant, animal and bacterial viruses. Includes general viral characteristics, replication, genetic diseases and other selected material. Laboratory work includes tissue culture, animal inoculations, viral serology and titration techniques. Three hours of lecture and three hours of laboratory per week. Lab fee \$30. Prerequisite: Bi 230.

Bi 340 Comparative Vertebrate Anatomy**4 Crs.**

The comparative anatomy of vertebrates in relation to their life style and evolutionary status. System study includes integument, skeleton, muscle, circulation, respiration, digestion, urogenital, brain and peripheral nerves of selected vertebrate types. Three lectures, three hours of laboratory per week and three extra hours of independent laboratory work. Lab fee \$30. Prerequisite: Bi 212.

Bi 350 Bioecology**4 Crs.**

The fundamental concepts of plant and animal ecology as revealed by field and laboratory studies of communities, succession, energy systems, physical-chemical factors of the environment and population dynamics. Three lectures and one afternoon of laboratory-field work per week. Lab fee \$30. Prerequisites: Bi 111, Bi 112, Ch 011 and Ch 012.

Bi 370 Natural Resource Management**4 Crs.**

An inquiry into methods of resource management for soils, water, atmosphere, minerals, grassland, forest, wildlife and recreation. Misuse of resources is considered in the light of correct management procedures. Three lectures and three hours of lab-field work per week. Lab fee \$30. Prerequisite: Bi 350.

Bi 375 Analytical Techniques in Environmental Biology**4 Crs.**

A course designed to instruct individuals in the chemical and biological analyses of varied environments. Topics include sampling procedures, chemical analyses, biological analyses and the treatment of data. Two lectures and three hours of laboratory per week. Lab fee \$30. Prerequisites: Bi 350, Ch 011 and Ch 012.

Bi 380 Evolution**4 Crs.**

An introduction to the analyses and syntheses of the evolutionary pattern of life in plants and animals. Laboratory sessions provide an insight into the methodology of evolutionary studies. Three lectures and three hours of laboratory per week. Lab fee \$30. Prerequisites: Bi 220 and Bi 350.

Bi 385 Biochemical Techniques in Biology**4 Crs.**

A study dealing with the use of biochemical procedures in solving biological problems. Topics include biochemical analysis of cellular constituents, enzyme purification, special enzyme analysis and the quantitative aspects of intermediary metabolism. Two lectures and four hours of laboratory per week. Lab fee \$30. Prerequisites: Bi 311 and Ch 216.

Bi 390 Supervised Research**3-6 Crs.**

Individual research projects in the basic areas of biology under the supervision of faculty. Lab fee \$30. Prerequisites: 3.5 average and permission of the department.

Chemistry Courses

Courses for Non-Science Majors (Area III)**Ch 004 Chemistry for the Artist****4 Crs.**

The course is designed specifically for students majoring or minoring in art. The subject matter will include the basic principles of chemistry, chemistry of the materials used by the artist, history of the chemistry of dyes and pigments, detection of art forgeries, art restoration, chemistry of color, art hazards, and safety precautions. Two 75-minute lectures and one two-hour discussion/laboratory per week. Prerequisite: must be majoring or minoring in art or must have permission of the instructor. Lab fee \$20.

Ch 005 Fundamentals of Chemistry**4 Crs.**

This course is devoted to the basic principles of chemistry. The topics examined are: physical properties of matter; the laws of chemical change; the kinetic molecular theory; molecular formulas and the atomic weight scale; the structure of the atom; principles of chemical bonding; chemical equilibrium; solution chemistry; introduction to organic; and nuclear reactions and energy. Applications of the fundamental laws to the contemporary technological problems are integrated into the course content. Two 75-minute lectures and one two-hour laboratory/discussion per week. Lab fee \$20.

Ch 006 Consumer Chemistry**4 Crs.**

This course concerns the substances encountered in our daily living and explores the chemical concepts involved in their use. Emphasis is on how the chemistry works rather than its impact on the environment. The course material is descriptive and topics include: energy production, food and food additives, farm chemistry, chemotherapy and drugs, and household and automotive products. It is designed for non-science majors; high school chemistry is desirable but not required. One three-hour lecture and one two-hour laboratory per week. Lab fee \$20.

Ch 008 Introduction to Environmental Chemistry**3 Crs.**

This course acquaints the student with the basic chemical principles associated with our environment. An understanding of the complexity of the environment is necessary to make rational judgements on environment-related issues. Topics concern the chemistry of energy production, air and water pollution, agriculture, plastics, and household products. Emphasis is on contemporary problems and the outlook for their solution. The course is designed for non-science majors; high school chemistry will be helpful, but not required. One three-hour lecture per week.

Courses for Nursing and Related Professions**Ch 007 Principles of Chemistry****4 Crs.**

This course stresses the fundamentals of chemistry and integrates principles related to the health sciences where appropriate. The course content includes the following topics: unit of measure, structure and properties of matter, chemical bonding, fundamental laws of chemistry, solution chemistry, elemen-

tary organic and biochemistry. Two 75-minute lectures per week and one three-hour laboratory or one two-hour discussion on alternate weeks. Lab fee \$20.

Ch 009 Principles of Organic and Biochemistry **4 Crs.**

Specific topics covered include aliphatic hydrocarbons, aromatic hydrocarbons, alcohols, ethers, aldehydes and ketones, carboxylic acids and amines. Also included are carbohydrates, lipids, proteins, nucleic acids, biochemistry of the cell, enzymes, carbohydrate, lipid and protein metabolism and the biochemistry of drugs. Two 75-minute lectures per week and one three-hour laboratory or one two-hour discussion on alternate weeks. Lab fee \$25.

Remedial Course in Chemistry

Ch 005 Fundamentals of Chemistry **4 Crs.**

For course description, please see under "Courses for Non-Science Majors (Area III)".

Other Departmental Courses

Ch 010 Historical Aspects of Chemistry **3 Crs.**

The course will trace the development of chemistry from alchemy to its modern form from a historical and scientific standpoint. Prerequisite: Ch 005 or equivalent.

Ch 011 General Chemistry I **3 Crs.**

The systematic study of the fundamental laws and theories of chemistry, basic atomic theory and structure, chemical bonding, chemical equations and stoichiometry, chemical reactions in aqueous solutions, theory of gases, kinetic molecular theory, liquids and solids, properties of solutions, chemical thermodynamics and criteria for spontaneity of a reaction. Three hours of lecture per week. Prerequisite: Ch 005 or equivalent or permission of the Chairperson. Corequisite: Ch 013.

Ch 012 General Chemistry II **3 Crs.**

Ch 012 explores chemical kinetics, chemical equilibrium, acids and bases, ionic equilibria, electrochemistry, metals, non-metals and metalloids, transitions metals, introduction to organic chemistry and nuclear chemistry. Three hours of lecture per week. Prerequisite: Ch 011, Ch 013. Corequisite: Ch 014.

Ch 013 Elementary Quantitative and Qualitative Analysis I **1 Cr.**

Laboratory experiments are illustrative of the basic concepts presented in Ch 011, General Chemistry I. Four hours of laboratory per week. Lab fee \$30. Corequisite: Ch 011.

Ch 014 Elementary Quantitative and Qualitative Analysis II **1 Cr.**

Laboratory experiments illustrate the basic concepts presented in Ch 012, General Chemistry II. Experiments include both volumetric and gravimetric methods of analysis. One four-hour laboratory per week. Lab fee \$30. Prerequisite: Ch 013. Corequisite: Ch 012.

Ch 111 Organic Chemistry I **3 Crs.**

An intensive treatment of the subject within the framework of the headings: alkanes, alkenes, alkynes, dienes, alicyclic hydrocarbons, stereochemistry, optical activity, aromaticity, electrophilic aromatic substitution reactions, arenes, alkyl halides, nucleophilic aliphatic substitution reactions, elimination reactions and spectroscopy especially IR, NMR, MS, and UV spectroscopy in relation to structure determination. Prerequisite: Ch 012, Ch 014. Corequisite: Ch 113.

Ch 112 Organic Chemistry II **3 Crs.**

A continuation of Ch 111. The topics include: alcohols, ethers, epoxides, carboxylic acids and its functional derivatives, aldehydes, ketones, amines, phenols, carbanion reactions, alpha-beta unsaturated compounds, carbohydrates, lipids and proteins. Emphasis is given to organic reaction mechanisms, organic synthesis, and structure determination using spectroscopic techniques. Two 75-minute lectures. For information about the recitation hours, consult the Chairperson. Prerequisite: Ch 111. Corequisite: Ch 114.

Ch 113 Organic Chemistry Laboratory I **1 Cr.**

The students will learn basic laboratory techniques in organic chemistry. Basic techniques such as extraction, distillation, recrystallization, thin layer chromatography, gas chromatography, etc. will be used. Organic synthesis will be a major part of the laboratory work. One four-hour laboratory per week. Lab fee \$30. Corequisite: Ch 111.

Ch 114 Organic Chemistry Laboratory II **1 Cr.**

This a continuation of Ch 113. Organic synthesis is the major portion of the course. Multistep organic syntheses using a wide variety of organic reagents will be carried out. Some important functional group analyses is also included. One four-hour laboratory per week. Lab fee \$30. Prerequisite: Ch 113. Corequisite: Ch 112.

Ch 200 Safety in the Chemistry Laboratory **1 Cr.**

The course will deal with proper chemical storage, chemical transportation, waste disposal, proper laboratory handling of glassware and equipment, carcinogens, proper labeling, toxicological effects of certain chemicals and OSHA regulations. Three hours of lecture per week for five weeks. Prerequisites: Minimum three preferably four courses (12 to 16 credit hours) in chemistry or permission of the Chairperson.

Ch 210 Organic Qualitative Analysis **2 Crs.**

Emphasis is given to the basic techniques in identifying organic compounds. The classic methods of functional group analysis and preparation of derivatives will be blended with the use of NMR, IR, and other pertinent spectroscopic methods. One hour lecture and one, four-hour laboratory. Lab fee \$30. Prerequisite: Ch 114.

Ch 211 Analytical Chemistry **3 Crs.**

This course is designed to give the student a working knowledge of the analytical methods and techniques used in chemistry. The lectures stress the chemical principles fundamental to quantitative analysis and the theories of classical gravimetric and volumetric methods. Topics include the reliability of analytical

data, solubility of precipitates, gravimetric analyses, volumetric methods, precipitation, neutralization, complex-formation, non-aqueous, and oxidation-reduction equilibria and titration systems. Two 75-minute lectures per week. Prerequisite: Ch 111. Corequisite: Ch 213.

Ch 213 Analytical Chemistry Laboratory

2 Crs.

The student will receive laboratory experience in a wide variety of volumetric and gravimetric methods. Experiments are designed to correlate with lecture material in Ch 211 and develop proper analytical procedure and techniques in addition to an understanding of the chemistry involved. Two three-hour laboratories per week. Lab fee \$30. Corequisite: Ch 211.

Ch 215 Chemical Applications of Mathematics

2 Crs.

The course addresses itself to those areas of mathematics that are used extensively in physical chemistry. Topics covered include mathematical methods in the chemistry laboratory, differential and integral calculus, differential equations, orthogonal curvilinear coordinates, infinite series, matrices and determinants, operators. One 100-minute lecture per week. Prerequisite: Mt 016.

Ch 216 Biochemistry

3 Crs.

Chemical and physical properties of carbohydrates, lipids, membranes, amino acids, proteins, enzymes, and nucleic acids. The major metabolic pathways and enzymology will be covered in depth. Two 75-minute lectures per week. Prerequisite: Ch 112. Corequisite: Ch 218.

Ch 217 Clinical Biochemistry

3 Crs.

A one-semester course covering the basic chemistry and analytical methods for carbohydrates, lipids, proteins, enzymes, electrolytes, and hormones. The roles of these substances in physiological processes are also discussed. Two 75-minute lectures per week. Prerequisite: Ch 216. Corequisite: Ch 219.

Ch 218 Biochemistry Laboratory

2 Crs.

Experiments investigating the chemical and physical properties of biologically important compounds. Methods used include chromatography, electrophoresis, enzyme assays, and various techniques for isolation and identification of biochemicals and enzymes. Two three-hour laboratories per week. Lab fee \$30. Corequisite: Ch 216.

Ch 219 Clinical Biochemistry Laboratory

2 Crs.

Methods for the determination of carbohydrates, lipids, enzymes, proteins, electrolytes, hormones, and other substances in body tissues. Techniques used may include chromatography, electrophoresis, spectrophotometry, fluorometry, and electroanalytical methods. Two three-hour laboratories per week. Lab fee \$30. Corequisite: Ch 217.

Ch 220 Seminar in Chemical Literature

1 Cr.

The purpose of this course is to learn the nature of chemical literature and how to use it and to learn how to prepare and present a chemistry seminar. Students are required to conduct a specific number of literature

searches and seminars as partial fulfillment of the requirements of this course. Prerequisite: permission of the Chairperson.

Ch 236 Elements of Physical Chemistry

3 Crs.

This course is intended for students who are considering a career in medicine or allied health fields and do not need the mathematical rigor of the full-year physical chemistry course. Topics include the laws of thermodynamics, chemical equilibrium, solutions of electrolytes, electrochemical cells, and chemical reaction rates, etc. Throughout the course special emphasis is given to the physico-chemical properties of living systems. Two 75-minute lectures per week. Prerequisite: Ch 112 and Mt 016.

Ch 237 Physical Chemistry I

3 Crs.

Topics include: Thermodynamics, statistical thermodynamics, kinetic theory of gases, changes of state, solutions, and chemical affinity. Two 75-minute lectures per week. Prerequisites: Ch 012, Mt 016, Py 112 or Py 122. Corequisite: Ch 239.

Ch 238 Physical Chemistry II

3 Crs.

A continuation of Ch 237. Topics include: chemical reaction rates, electrochemistry, and quantum mechanics. Two 75-minute lectures per week. Prerequisite: Ch 237. Corequisite: Ch 240. Co- or Prerequisite: Mt 104.

Ch 239 Physical Chemistry Laboratory I

2 Crs.

This course introduces the student to the kinds of techniques physical chemists use to apply the fundamental concepts of physical chemistry to real chemical systems. Two three-hour laboratory sessions per week. Lab fee \$30. Corequisite: Ch 237.

Ch 240 Physical Chemistry Laboratory II

2 Crs.

A continuation of Ch 239. The student is introduced to the more advanced techniques of physical chemistry. The aim is to apply the theoretical concepts learned in Ch 238 to real chemical systems. Two three-hour laboratories per week. Lab fee \$30. Prerequisite: Ch 239. Corequisite: Ch 238.

Ch 248 Introduction to Polymer Chemistry

3 Crs.

This descriptive course considers polymer chemistry as a branch of organic chemistry. It is designed to acquaint students broadly with the preparation, structure, properties and utility of polymers and plastics. Topics include: condensation and addition polymerization, copolymerization, characterization of polymers, post-polymerization reactions and natural polymers. One three-hour lecture per week. Prerequisite: Ch 112.

Ch 301 Industrial Aspects of Chemistry

3 Crs.

The course will deal with the analysis of chemical and allied industries and their input to the economy of the country. Utilization of industrially important chemicals along with sources and interdependence will be covered in detail. Visitation of industrial plants is part of the course. One three-hour lecture per week. Prerequisites: Ch 112, 114.

Ch 305 Computer Applications in Chemistry**5 Crs.**

The main part of the course will deal with writing programs useful in the analytical chemistry laboratory including treatment of analytical data. Lecture portion also deals with interfacing computers with instruments. Two hours of lecture and a minimum of five hours of laboratory per week. Prerequisites: Cs 101, Ch 211, Ch 213. Lab fee \$30.

Ch 312 Instrumental Analysis**3 Crs.**

This course presents the theory and practice of the applications of instrumental methods to quantitative analysis. The areas covered include spectrophotometric, electroanalytical, and chromatographic methods of separation and quantification. Practical applications and state-of-the-art techniques are discussed. Two 75-minute lectures per week. Prerequisite: Ch 112 and at least one semester of physical chemistry or permission of the instructor. Corequisite: Ch 314.

Ch 314 Instrumental Analysis Laboratory**2 Crs.**

The student will receive hands-on experience with modern analytical instruments. Laboratory experiments are performed in visible, ultraviolet, infrared, and atomic absorption spectrophotometry, potentiometric and ion-selective electrode methods, electro-deposition, and gas chromatography. Two three-hour laboratories per week. Lab fee \$30. Corequisite: Ch 312.

Ch 338 Advanced Inorganic Chemistry**4 Crs.**

The physical and chemical properties of the elements and their compounds will be correlated with their positions in the periodic table. Bonding theory and coordination chemistry will be emphasized. The students are required to write a term paper or do a special project on a current topic. An oral presentation is also required. The students are expected to do considerable library work. Three hours of lecture per week. Prerequisites: Ch 012 and permission of the instructor.

Ch 339 Undergraduate Research**3 Crs.**

Special research projects may be carried out under supervision of the faculty either in the junior or senior year. The course may be repeated. Prerequisite: 3.0 average and permission of the Department Chairperson, Dean of the Division, and Academic Vice President.

Ch 350 Special Topics in Chemistry**3 Crs.**

The course deals with current topics in any of the following: analytical chemistry, biochemistry, organic chemistry or physical chemistry. Three hours of lecture per week. Prerequisites: Ch 312, Ch 217, Ch 112, or Ch 238 respectively and permission of the instructor.

understanding of the fundamentals of data processing and the functioning of the computer. It will give them the knowledge and understanding necessary to communicate effectively and intelligently in the computer driven business environment of today. Two hours of lab a week required.

Cs 010 Computers for the Non-Scientist**4 Crs.**

This introductory course provides management and staff personnel with a full understanding of the concepts of data processing plus the planning effort and management direction required for successful system development, acquisition and operation.

Cs 011 A First Course in Computer Science**5 Crs.**

An introduction to mathematical and computer modeling in the social and physical sciences. All required mathematics and computer programming in the conversational language BASIC are developed from first principles. Four hours a week of lab required.

Cs 012 Introduction to Applied Computation**5 Crs.**

An introduction to problem solving concepts and algorithm design, computers, FORTRAN programming, and applications to a variety of disciplines. Four hours a week of lab required. Prerequisites: Cs 009, Cs 011, or permission of the department.

Cs 013 Introduction to Programming Microcomputers**5 Crs.**

An up-to-date perspective on using microcomputers and writing programs for them. All required computer programming skills in the conversational language BASIC are developed from first principles on a micro-computer system. Four hours a week of lab required.

Cs 015 COBOL Programming**5 Crs.**

An introduction to the COBOL language and its application to solving business-oriented data processing problems. Four hours a week of lab required. Prerequisites: Cs 009, Cs 011, Cs 012 or permission of the department.

Cs 019 Computer Operations**3 Crs.**

An introduction to the hardware, software, and personnel requirements necessary to operate a 3rd generation computer center. Topics covered include input/output controls, general systems requirements from a structural standpoint, handling procedures for disc and tape systems, computer security, facilities maintenance and upgrades. Prerequisite: Cs 009.

Cs 100 Telecommunications**3 Crs.**

This course introduces the basic concepts of telecommunications. Included are the following topics: the nature of communication links and their hardware; codes, modems, terminals and methods of line organization; multiplexing and the types of network structures and design techniques to implement the system. Prerequisite: Cs 019.

Cs 101 Introduction to Computer Science**5 Crs.**

The design and representation of algorithms. Problem-solving and programming techniques: top-down analysis, recursion, APL, and ALGOL or PASCAL languages. Organization and logical structure of the digital

Computer Science Courses

Cs 009 Introduction to Data Processing**4 Crs.**

This course is designed to provide data processing oriented students or business people with a basic

computer and programming languages. Data and control structures. Five hours a week of lab required. Prerequisites: Cs 011 or Cs 012, and Mt 002 or Mt 010.

Cs 102 Introduction to Systems Programming 5 Crs.

Techniques for sophisticated programming. Assembly language programming and systems programming languages. Modular construction of big programs. Data structures and storage allocation systems. Five hours a week of lab required. Prerequisite: Cs 101.

Cs 105 Advanced COBOL Programming 5 Crs.

A continuation of Cs 015. Advanced COBOL programming. Segmentation, overlay processing. Efficiency and tradeoffs in coding and program design. Four hours a week of lab required. Prerequisite: Cs 015.

Cs 107 Systems Design 4 Crs.

An introduction to the practical application of computers to the solving of business related problems. Analysis, design and evaluation techniques are stressed. Prerequisite: Cs 011.

Cs 109 Project Management and Control 3 Crs.

Provides the basis for managing resources to accomplish specific objectives. Emphasis is placed on scheduling and estimating methods, CPM/PERT techniques and interpersonal communication skills. Prerequisite: Cs 015.

Cs 110 Data Processing—Feasibility and Economics 3 Crs.

The study and justification leading to the installation of a computer system as a complex problem with many variables. The focus is on the feasibility study which prepares the analysis of the problems leading to a computer system, the economics of selecting the right computer system and the maintenance costs of the system. Prerequisite: Cs 109.

Cs 121 Discrete Mathematics and the Analysis of Algorithms I 3 Crs.

The mathematical theory and techniques underlying the analysis of algorithms and applied problem solving. Prerequisite: Mt 103 and Cs 012.

Cs 122 Discrete Mathematics and the Analysis of Algorithms II 3 Crs.

A continuation of Cs 121. Prerequisite: Cs 121.

Cs 201 Programming Languages and Compilers 3 Crs.

Compiler organization and implementation, lexical analysis, formal syntax specification, parsing techniques, execution environment, storage management, code generation and organization, procedure linkage and address binding. Prerequisites: Cs 102 and Cs 122.

Cs 202 Operating Systems 3 Crs.

The design, implementation and testing of software systems and operation systems. Prerequisites: Cs 102 and Cs 122.

Cs 203 Data Base Design 4 Crs.

File structures including sequential, indexed and direct files. Data base organizations, hierarchical, relational and ring structures. Two hours a week of lab required. Prerequisite: Cs 015.

Cs 207 Systems Analysis 4 Crs.

This course will introduce the student to the basic systems theory and provide a working knowledge of information systems design and analysis. The student will participate in the analysis of specific business problems and design systems to support this business need. Prerequisite: Cs 017.

Cs 211 Advanced Programming 3 Crs.

Advanced programming techniques with special emphasis on applications to the business world and to the social and physical sciences. Prerequisite: Cs 102.

Cs 212 Numerical Computation 3 Crs.

Algorithms for numerical problems in the biological, physical and social sciences; linear and non-linear algebraic problems, optimization problems and ordinary differential equations. Prerequisites: Mt 016 and Cs 211.

Cs 217 Real Time Computer Systems 3 Crs.

This course covers the applications, economics and the design of real time computer systems for commercial use. Topics include the equipment, the configurations, the techniques and design calculations necessary to install a real time system. It addresses the technical problems associated with such systems and the schedules and procedures needed for implementation. Prerequisite: Cs 203.

Cs 301 Introduction to the Theory of Automata 3 Crs.

Theoretical models of computing devices, the finite state model, Turing machines, invariance of several formulations, unsolvability, rewriting of systems. Prerequisite: Cs 122.

Cs 303 Advanced Data Base 4 Crs.

Design considerations in a multi-application database supporting integrated business systems. Two hours a week of lab required. Prerequisite: Cs 203.

Cs 322 Special Projects 3-6 Crs.

A special project not otherwise available. The student must submit a written report and make an oral presentation of the results of the project. The course may be taken more than once. Prerequisite: Permission of the department.

Mathematics Courses

Mt 099 Basic Mathematics 3 Crs.

Foundations of arithmetic; assumptions; fundamental definitions. Cardinal and ordinal numbers. Equalities and inequalities of natural numbers. Algebraic expressions. Fundamental operations on polynomials. Rational fractions. Exponents and radicals. Algebraic equations. (For students who fail the department entrance examination.)

Mt 001-002 Modern College Mathematics I, II 6 Crs.

Set theory, the logical method, systems of numeration, functions, the real numbers, algebraic processes, equations and inequalities, complex numbers, graphs of relations, matrices, determinants, systems of equations, combinational theory and probability. Introductory Statistics.

Mt 005 Probability and Statistics**3 Crs.**

An introduction to the theory of probability and elementary statistics. Important discrete distributions; sampling theory of large and small samples. Estimating population mean and proportion and test hypotheses.

Mt 008 Mathematics for**Decision-Making****3 Crs.**

Inequalities, functions, matrices, systems of equations, probability, and linear programming.

Mt/or 010 Precalculus**4 Crs.**

For the prospective math, operations research or computer science major without the proper background to take Mt 015. Set theory and symbolic logic. Definition of function and algebra of functions. Polynomial and rational functions and analytical trigonometry.

Mt 014 Calculus for**Decision-Making****3 Crs.**

Limits differentiation, integration, and applications of the calculus.

Mt 015 Introductory Calculus**4 Crs.**

First credit hour for mathematics majors. Differential and integral calculus of the elementary functions with associated analytic geometry. Limit and approximation. Technique and applications of differentiation. Area and integral. Applications. Prerequisite: Mt 010 or passing departmental test.

Mt 016-104 Mathematical Analysis I, II**8 Crs.**

Mt 016 is a continuation of Mt 015. Limits of functions, implicit and inverse functions, methods of integration and limits of sequences. Applications of integration, improper integrals, power series, parametric representation and polar coordinates. Prerequisite: Mt 015.

Mt 104, a continuation of Mt 016, introduces 3-dimensional analytic geometry, multivariable calculus, real valued functions of several variables, limits and continuity in E^n . Partial derivatives, multiple integration, definition of the integral, its existence and interrelations. Linear differential equations with constant variable coefficients, systems of differential equations and special problems. Prerequisite: Mt 016.

Mt 095 The Modernized Metric System**3 Crs.**

Development of the metric system, the basic international system (SI) units of metric measurements, supplementary units, derived and special units, conversions in the SI, measurements, scientific notation and the slide rule.

Mt 103 Linear Algebra**4 Crs.**

Sets and mappings, fields and other algebraic structures, vector spaces and subspaces, inner product spaces, systems of linear equations, matrix theory, determinants, linear inequalities and convex sets. Linear mappings, matrices, quadratics forms and Eigen values. Prerequisites: Mt 015 and permission of the department.

Mt 106-107 Probability and Mathematical Statistics I, II**6 Crs.**

Probability as a mathematical system, random variables and their distributions, sequences of random variables, Markov chains, stochastic processes. Statistical inference, estimation, regression and analysis of variance. Prerequisite: Mt 016.

Mt 201 Advanced Multivariable Calculus**3 Crs.**

Mappings from E^n to E^m . Continuity, Jacobians, chain rule for differentiation. Integrals along curves. Line and surface integrals; also in terms of vectors. Vector calculus. Theorems of Gauss, Green and Stokes. The space of continuous functions. Prerequisites: Mt 103 and Mt 104.

Mt 221 Abstract Algebra**3 Crs.**

Continuation of Mt 103. Algebraic systems. Group theory, subgroups, cyclic groups and basic theorems. Quotient structure, isomorphism theorems, ring theory and ideals. Integral domains. Prime fields and characteristics. Prerequisites: Mt 103 and Mt 104.

Mt 222 Geometry**3 Crs.**

Especially for secondary teachers. A thorough and exact treatment of Euclidean geometry. Incidence and separation properties of planes and space. The theory of groups applied to transformations in the plane and in space, particularly isometries and similarities. Inversion in a circle and in a sphere. Prerequisite: Mt 103.

Mt 231 Numerical Analysis**3 Crs.**

Solution of equations. Functional interaction of nonlinear equations. Polynomial approximations, interpolation and quadrature. Initial value problems for ordinary differential equations. Matrix inversion and matrix characteristic values. Prerequisite: Mt 104.

Mt 232 Applied Mathematics**3 Crs.**

A course to illustrate the principles and basic styles of thought in solving physical problems by mathematical methods. Prerequisite: Mt 201.

Mt 313 Real Analysis**3 Crs.**

The real numbers, cardinality, metric spaces, subspaces, convergence, Euclidean spaces and topology. Continuity, differentiability, spaces of continuous functions, Lebesgue measure and integration. Fourier series. Prerequisite: Mt 201.

Mt 314 Complex Analysis**3 Crs.**

The algebra and geometry of complex numbers, metric spaces, analytic functions, integration and Taylor and Laurent series. Contour integration, analytic continuation, conformal mappings, boundary value problems and integral transforms. Prerequisite: Mt 201.

Mt 345 Theory of Games**3 Crs.**

Two-person zero-sum games, the minimax theorem; non-cooperative n-person games; Nash equilibrium points; games in extensive form; cooperative n-person games: the core stable sets, Shapley value, bargaining set, kernel, nucleolus, simple games and power indices; and games without side payments.

Mt 346 Optimization Theory***3 Crs.**

*Contact department for course description.

Medical Technology Courses

Mte 301 Clinical Microbiology**8 Crs.**

Includes the isolation and identification of clinically significant pathogenic bacteria from all types of clinical

specimens. Also covered: parasitology, virology and mycology. Correlation of laboratory findings to disease states emphasized.

Mte 302 Blood Banking **3 Crs.**
Introduction to human blood groups, compatibility testing, component therapy and their relation to transfusion. Emphasis on problem solving.

Mte 310 Hematology **5 Crs.**
Comprehensive study of the principles, procedures, special techniques and disease states of the cellular components of the blood. Includes hemostasis.

Mte 315 Clinical Microscopy **1 Cr.**
Principles of the diagnostic procedures for urine, spinal fluids, feces, gastric contents and other body fluids.

Mte 325 Clinical Chemistry **8 Crs.**
Manual and automated biochemical analysis of body fluids in health and disease and the clinical application of test results.

Mte 330 Immunology and Serology **3 Crs.**
A study of the immune response in health and disease and the use of current techniques for the determination of antigen-antibody reactions.

Mte 340 Special Topics in Medical Technology **2 Crs.**
Investigation of a special medical technology and/or related topic.

Nursing Courses

Nu 200 Foundations of Professional Nursing **3 Crs.**
This course is designed as a bridge into the major to explore: the changing role of the nurse in today's health care system, selected conceptual models for nursing practice, role expectation of the baccalaureate prepared practitioner, the conceptual framework of this program and the research process in nursing and its relationship to practice will be discussed. Open to non-nursing majors with the permission of the department chairman. One two-and-a-half hour lecture per week.

Nu 251 Nursing Practice in Individual/Group Health **4 Crs.**
Utilizing the conceptual framework of the program, this course focuses on the process of comprehensive health assessment with individuals and small groups integrating techniques of interviewing, history-taking and physical assessment. Adequate data collection and careful analysis for diagnostic and planning purposes are stressed. Theories of role behavior, group dynamics, intervention strategies and evaluation are explored. One two hour lecture and one three hour laboratory per week. Prerequisites: all departmental examinations and Nu 200. Corequisite: Nu 253. Lab fee: \$25.

Nu 253 Health Pattern and the Nursing Process **3 Crs.**
This course is concerned with the multifaceted interrelationships between individual clients and their relevant environments; the identification of intrinsic and

extrinsic factors that may alter and disrupt the biologic and psychologic health of individuals; their mechanisms of impact and the health problems that ensue. Prevalent prototypic psychologic and biologic dysfunctions will be analyzed to enhance students' assessment acuity, diagnostic accuracy, treatment evaluations and nursing intervention strategies that focus on health promotion and maintenance. One lecture per week. Prerequisites: all departmental examinations, An 102 and Nu 200. Corequisite: Nu 251.

Nu 270 Power, Politics and the Profession **3 Crs.**
(Elective)

A course to explore the increased utilization of professional power to affect change within health care systems. A study of power, analysis of institutional structures and recognition of professional responsibilities will precede investigation of current nursing issues. Issues considered include professional organizations, credentialing, collective bargaining, legislation, lobbying, third party payment and independent practice. Open to non-majors with permission of the instructor. One lecture per week.

Nu 271 Transcultural Nursing **3 Crs.**
(Elective)

The beliefs, values, rules of behavior and life-style practices of selected cultures are examined with respect to nursing and health-illness care, to discover culture-specific and culture-universal nursing practices that contribute to humanistic care in a multiethnic society. This goal is further achieved by exploring the subculture of American Nursing and challenging the ideal of providing individualized nursing care. Economic, societal and institutional barriers to effective nursing care delivery are discussed and the professional responsibilities of advocacy and accountability to the minority consumer are analyzed. Guest discussion leaders who are members of selected cultures and field trips to health care facilities that provide services to these populations, provide experiences to facilitate internalization of a value system committed to the rights of others. One lecture per week. Open to non-majors with permission of the instructor.

Nu 272 Perspectives in Nursing Management **3 Crs.**
(Elective)

This course provides the registered nurse with the basic theory and understanding of the management aspects inherent in the role of care giver and client advocate. Self image, including the philosophical aspects of role ambiguity and role conflict will provide the basis on which authority, leadership, decision making and the management process are discussed. Case studies in Nursing will enable the student to apply theory to actual work situations. Open to non-majors with permission of the instructor. Two lectures every other week.

Nu 300 Nursing Practice in Family Health **7 Crs.**

This course focuses on the family as a consumer of health care exploring models of family structure; family patterns of interaction; individual and family life styles; maturational and situational hazards concomitant with family development; methods of family problem-solving and nursing strategies relevant to family intervention. Experiential learning to integrate theory with practice and apply the nursing process to the care of two

families is in a variety of health-related settings. Student generated learning objectives are incorporated into contractual agreement with faculty concerning fulfillment of course and clinical assignments. One lecture and seven-and-a-half hours experiential learning per week by contract with course coordinator. Prerequisites: Nu 251, Nu 253 and Mt 005.

Nu 351 Nursing Practice in Community Health

7 Crs.

This course focuses on the community as consumer of health services. An understanding of the functions and program of Public Health will serve as an introduction to the past and present role of the nurse in community health. A conceptual approach to the health of aggregates and communities form the basis for applying the nursing process in experiential learning settings. Students explore present and future epidemiological, environmental and societal issues which influence the delivery of health care at local, national and international levels. The methodology used in solving community-wide nursing problems that respond to nursing interventions are discussed. Strategies of health promotion and health screening are emphasized. One lecture and seven-and-a-half hours experiential learning per week by contract with course coordinator. Prerequisite: Nu 300.

Nu 370 Psycho-Biological Health of the Older Adult

3 Crs.

(Elective)

A study of current gerontological theory and research concerning the biological and psychological changes experienced by people in the second half of life. A variety of approaches to assessment of age—stage changes from middle adulthood to old age are presented, with emphasis on strategies to promote mental health and successful aging. The perspectives of other disciplines will be explored to augment the professional knowledge base. One lecture per week. Open to non-majors with permission of the instructor.

Nu 371 Women's Health*

3 Crs.

(Elective)

Nu 372 Research in Nursing*

3 Crs.

(Elective)

Nu 390 Seminar in Role Development

3 Crs.

This course centers around the practice expectation for the baccalaureate nurse generalist. Organizational theory, leadership theory, change theory and conflict management are explored in relation to the role expectations for the nurse generalist, that is health promoter, health screener, health teacher, consumer advocate, manager/leader and care-giver. In collaboration with colleagues, health consumers, and institutional personnel, students will be expected to analyze their own professional practice, identify areas of needed change, synthesize new knowledge into their practice repertoire and evaluate their emerging identity as a baccalaureate prepared nurse generalist. One seminar per week and three hours experiential learning per week by contract with course coordinator. Prerequisites: Nu 300, Mt 005. Corequisite: Nu 351.

Nu 398 Independent Study in Nursing

3 Crs.

Exploration of a special area of interest in health care. Prospectus and objectives are formulated by individual students in consultation with a faculty mentor. Prerequisite: Nu 300.

***Contact the Department Chairman for course description.**

Operations Research Courses

Or/Mt 010 Precalculus

3 Crs.

A version of Mt 010 designed especially for the operations researcher. Set theory and symbolic logic, functions and algebra of functions. Basic trigonometry. Introduction to linear algebra.

Or 012 Introduction to Management Science

3 Crs.

Introduction to mathematical models as aids in managerial decision making. Emphasis on deterministic linear models, particularly linear programming problems. Examples of planning problems in the public and private sectors.

Or 121 Mathematical Models in Management Science

3 Crs.

Stresses insights for decision making that stem from scientific analysis. Develops skills in formulating and building models that are aids to executive decisions. Includes linear, dynamic and combinatorial models. Covers optimization techniques of simplex algorithms, shortest route method, recursive programming, horizon analysis, branch-and-bound and sensitivity analysis.

Or 132 Math Programming I

3 Crs.

Linear programming theory, the simplex algorithm and duality theory. Optimal network flows including the max-flow and min-cut theorem, algorithms for the transportation problem, shortest route problem and the minimum spanning tree problem. Computational aspects of the simplex algorithm including the revised simplex algorithm, production of the inverse, lexicographical ordering and upperbounded variables. Decomposition principle and algorithm, complementary pivoting and separable programming. Introduction to integer programming including cutting plane algorithms, branch and bound algorithms and implicit enumeration algorithms.

Or 133-322 Applications of Operations Research I, II

6 Crs.

Applications of the methods of operations research in management problems developed through study of actual applications reported in the literature, proposed applications and case studies. Requires student formulation, experiment and interpretation. Emphasis on the relationship of theory to practice and the use of operations research in decision making.

Or 221 Statistics For Decision Making 3 Crs.

A first course in statistics, taught from the decision making point of view. Topics include uncertainty and random variables, decision analysis, optimal strategies and economics of sampling, as well as an introduction to game theory and group decision. An interactive computer facility will provide students direct experience in working with data.

Or 222 Introduction to Production Analysis 3 Crs.

A study of quantitative methods of analysis important to the solution of economic operating problems of production administration. Specific topics include programming methods, statistical analysis and economic analysis.

Or 321 Decision Analysis 3 Crs.

Individual decision making under uncertainty, including decision trees, risk aversion, elements of statistics and utility theory, estimation of utilities. A brief introduction to group decision making.

Or 340 System Theory 3 Crs.

Basic principles, the concept of feedback and its effects on the behavior of the system, state representation of continuous and discrete systems, qualitative properties of systems and applications.

Py 100 Elements of Physics 4 Crs.

An introductory, non-calculus course, incorporating the basic laws of motion and energy, the properties of matter including the gaseous state, the principles of electricity, magnetism, electromagnetic radiation, the properties and principles of nuclear radiation. This course is designed to provide the medically oriented student with these principles and their application to the biological sciences. Two 75-minute lectures and one two-hour laboratory per week. Lab fee \$25.

Py 111 General Physics I 4 Crs.

Topics covered include vectors, forces, uniformly-accelerated motion, linear and angular motion, work and energy, momentum, rotation, mechanical and thermal properties of matter, the gas laws, temperature and heat transfer. Two 75-minute lectures and one two-hour laboratory per week. Prerequisite: Mt 002 or equivalent.

Py 112 General Physics II 4 Crs.

This is a continuation of Py 111. Topics covered include: vibrations and wave motion, sound, electricity and magnetism; the reflection, refraction, interface and diffraction of light; lenses and mirrors and optical devices. Two 75-minute lectures and one two-hour laboratory per week. Prerequisite: Py 111 or permission of the Chairperson.

Py 121 Principles of Physics I 4 Crs.

A calculus-based physics course covering the topics of mechanics, work, energy, thermal properties, and atomic structure. Two 75-minute lectures and one two-hour laboratory per week. Prerequisite: Mt 015 and Mt 016 or concurrent enrollment. Lab fee \$25.

Py 122 Principles of Physics II 4 Crs.

A continuation of Py 121 with emphasis on wave motion, sound, electricity, magnetism, and light. Two 75-minute lectures and one two-hour laboratory per week. Lab fee \$25. Prerequisites: Py 121 and Mt 016.

Physics Courses

Py 005 Physics in Daily Life (Area III) 4 Crs.

An elementary physics course designed for non-science majors. The course will stress the application of physics to daily life. Specific topics will include astronomy, nuclear energy, earth science, satellites, medical applications, and physics in design of structures ranging from bridges to tires. Three hours of lecture and two hours of laboratory per week.

FULL-TIME FACULTY

(Listed According to Seniority in Rank)

*Tenured

- *JOHN L. MAHAR, Professor—History
- *RAOUL A. De VILLIERS, Professor—Mathematics
- *ANTHONY V. PINCIARO, Professor—Chemistry
- *H. ARLISS DENYES, Professor—Biology
- *CLAUDE I. McNEAL, Professor—English/Drama
- *DONALD W. BRODEUR, Professor—Psychology
- *CHARLES W. HARPER, Professor—Management
- THOMAS P. MELADY, Professor—Political Science
- *VIRGINIA ZIC, Professor—Art
- *MARIANN RUSSELL, Professor—English
- *LELAND R. ROBERTS, Professor—Music
- *GEORGE F.R. MILLER, Professor—Management
- *LEONARD N. PERSSON, Professor—Management
- *MARIA-TERESA TORREIRA TENORIO, Professor—Modern Languages
- ELIZABETH M. KELLY, Professor Emeritus—Psychology
- MARCELLA C. MALLOY, Professor Emeritus—Modern Foreign Languages
- MARIA S. QUINTERO, Professor Emeritus—Modern Foreign Languages
- AMOS NANNINI, Professor Emeritus—Mathematics
- ALICE F. PRZYBYLSKI, Associate Professor Emeritus—Music
- *JAMES L. WIELAND, Associate Professor—Religious Studies
- *JACQUES M. VERGOTTI, Associate Professor—History and Political Science
- *TANIA VON YORK, Associate Professor—Sociology
- *EDWARD J. BORDEAU, Associate Professor—Philosophy
- *WILLIAM T. GNEWUCH, Associate Professor—Biology
- *RALPH L. CORRIGAN, Jr., Associate Professor—English
- *WALTER E. BROOKS, Associate Professor—Religious Studies
- *PAUL SIFF, Associate Professor—History
- *ARTHUR J. BRISSETTE, Associate Professor—Accounting/Finance
- *DONALD E. COONLEY, Associate Professor—Media Studies
- *CHRIST J. VERSES, Associate Professor—Biology
- *JEAN T. SELLS, Associate Professor—Mathematics/Operations Research/Computer Science
- *ROCH-JOSEF di LISIO, Associate Professor—Associate Librarian
- *GRACE FARRELL LEE, Associate Professor—English
- ROBERT M. KELLY, Associate Professor—Accounting/Finance
- MURRAY PORTNOY, Associate Professor—Accounting/Finance
- SALLY E. HOLLINGSWORTH, Associate Professor—Social Work
- ROSEMARY GREEN, Associate Professor—Biology
- *GRANT WALKER, Associate Professor—Sociology
- JOHN S. QUINN, Associate Professor—Media Studies
- *ALFRED G. TUFANO, Associate Professor—Education
- JOSEPH A. GRAU, Associate Professor—Religious Studies
- EDWARD J. O'HARA, Associate Professor—Library Director
- *WILLIAM B. KENNEDY, Associate Professor—History/Political Science
- *EDWARD W. MALIN, Associate Professor—Psychology
- *NICOLE XAVIER CAUVIN, Associate Professor—Sociology/Social Work/Criminal Justice
- ERIC S. EMORY, Associate Professor—Accounting/Finance
- *JOHN W. BROOKES, Associate Professor—Mathematics/Operations Research/Computer Science
- *CAMILLE P. REALE, Associate Professor—Secretarial Science
- SIDNEY P. GOTTLIEB, Associate Professor—English
- ROBERTA T. CABLE, Associate Professor—Accounting/Finance
- ROBERT J. SNYDER, Associate Professor—Chemistry
- THOMAS H. HICKS, Associate Professor—Psychology
- LAURENCE M. WEINSTEIN, Associate Professor—Management
- FRANCES A. WILLSEY, Associate Professor—Secretarial Science
- BARBARA S. ZUFFA, Associate Professor—Secretarial Science
- RAMZI N. FRANGUL, Associate Professor—Economics
- ROBERT H. NEUHAUS, Associate Professor—Management
- R. G. SELVANATHAN, Associate Professor—Operations Research
- MARIAN S. CALABRESE, Associate Professor—English
- ROBERTA LYNNE STAPLES, Associate Professor—English
- BABU GEORGE, Associate Professor—Chemistry
- *JOHN A. CROFFY, Assistant Professor—Mathematics
- *DOUGLAS J. BOHN, Assistant Professor—Mathematics
- NANCY S. FRYDMAN, Assistant Professor—Management
- JOHN E. JALBERT, Assistant Professor—Philosophy
- DEBORAH J. DeCORSO, Assistant Professor—Assistant Librarian
- PEARL S. VOGEL, Assistant Professor—Economics
- WILLIAM E. VERESPY, Jr., Assistant Professor—Management
- STEVEN S. BRADDON, Assistant Professor—Psychology
- CHARLES T. EBY, Assistant Professor—History
- ANDREW E. ROLLINGS, Assistant Professor—Sociology
- MAUREEN R. AVERY, Assistant Professor—Nursing
- LYNDA A. DIVASTO, Assistant Professor—Secretarial Science
- EDWARD T. MURRAY, Assistant Professor—Education

- JOHN F. KIKOSKI**, Assistant Professor—Political Science
ELAINE B. DAVIS, Assistant Professor—Social Work
CAROLYN J. McCOY, Assistant Professor—Secretarial Science
REGINA ROH-SCHWARTZ, Assistant Professor—Accounting/Finance (LOA)
FREDERICK W. McKINNEY, Assistant Professor—Economics
MICHELLE C. LORIS, Assistant Professor—English
MARC K. STANTON, Assistant Professor—Criminal Justice
JOHN B. WALZ, Assistant Professor—Media Studies
ROBERT J. SULLIVAN, Assistant Professor—Biology
THEODORE F. GUTSWA, Jr., Assistant Professor—Art
CHRISTINA J. TAYLOR, Assistant Professor—Psychology
ROBIN L. McALLISTER, Assistant Professor—English
DAVID F. CURTIS, Assistant Professor—English
LUCILLE A. McEACHERN, Assistant Professor—Education
GARY L. ROSE, Assistant Professor—Political Science
- ROBERT W. CUDDIHEE, Jr.**, Assistant Professor—Chemistry
LEONAS VOLSKIS, Assistant Professor—Media Studies
ANNA M. LAFFERTY, Assistant Professor—Art
CAROL A. NASON, Assistant Professor—Management
MICHAEL G. LABET, Assistant Professor—Accounting
ANTHONY J. MICHALEWICZ, Assistant Professor—Mathematics/Operations Research/Computer Science
ANGELA E. VICENZI, Assistant Professor—Nursing
MARIE SABO, Instructor—Chemistry
MARY ANN ROBBERT, Instructor—Mathematics/Operations Research/Computer Science
DOMENICK J. PINTO, Instructor—Mathematics/Operations Research/Computer Science
MICHAEL L. RAPOSA, Instructor—Religious Studies
LAUREL M. HALLORAN, Instructor—Nursing

FACULTY

(Full-time and Adjunct)

- ANGELICA M. ABELSON**, Adjunct Instructor—Secretarial Science: Tunxis Community College; Central Connecticut State College; B.S., Sacred Heart University; M.S., Southern Connecticut State College
EDWARD W. ACUNA, Adjunct Associate Professor—Art: B.F.A., Art Center College, Pasadena, CA
HOPE H. ADAMS, Adjunct Assistant Professor—Biology: B.A., Northwestern University; M.S., Sarah Lawrence College
RAYMOND J. ALTIERI, Adjunct Instructor—Mathematics: B.A., Sacred Heart University; Southern Connecticut State College
THOMAS R. ANASTASIO, Adjunct Instructor—Art: A.F.A., Silvermine College; B.S., M.A., University of Bridgeport
ANDRZEJ ANWEILER, Adjunct Instructor—Piano: B.Mus., Hartt College of Music, University of Hartford; M.Mus., Manhattan School of Music; Warsaw Conservatory, Poland
ANN G. ATTORA, Adjunct Assistant Professor—English: B.A., Blackburn College; M.A., Illinois State University
ANNE T. AVALLONE, Adjunct Professor—Biology (Nursing): R.N. (Nursing), St. Vincent's School of Nursing, New York; B.A., Mercy College; B.S. (Nursing), Seton Hall University; M.S. (Nursing), St. John's University
MAUREEN R. AVERY, Assistant Professor—Nursing; B.S., Nazareth College; M.S., University of Connecticut
RUTH A. BAUMGARTNER, Adjunct Associate Professor—English: B.A., Dickinson College; M.A., University of Rochester; A.B.D., University of Rochester
- LUCILLE J. BECKER**, Adjunct Assistant Professor—Business (Legal Assistant): B.A., Newton School of the Sacred Heart; J.D., Fordham University Law School; Masters of Law, Georgetown University
YVONNE B. BECKLEY, Adjunct Instructor—Secretarial Science: B.S., Sacred Heart University
BRUCE C. BEDNARSKY, Adjunct Instructor—Guitar: Housatonic Community College; B.S., University of Bridgeport; Masters Program, University of Bridgeport
LINDA M. BEHRNS, Adjunct Instructor—English: B.A., M.A., Illinois State University
MILTON F. BEISIEGEL, Adjunct Instructor—Bass: New England Conservatory of Music
BARBARA A. BENJAMINI, Adjunct Assistant Professor—English: Co-Director, Freshman English: B.A., M.A., University of Bridgeport
LEONARD W. BENNETT, Adjunct Assistant Professor—Secretarial Science: B.S., University of Bridgeport; M.A., Fairfield University; 6th year, Southern Connecticut State College; Central Connecticut State College
ANN R. BIGGS, Adjunct Instructor—Psychology: B.A., Wheaton College; M.S., University of Bridgeport; doctoral studies, New York University
DAVID A. BIKE, Adjunct Assistant Professor—Mathematics: Director of Athletics; B.A., Sacred Heart University; Florida Southern College; Seattle University
PAUL L. BLOCKLYN, Adjunct Assistant Professor—English: B.A., Middlebury College; M.F.A., M.A., Brown University

- *DOUGLAS J. BOHN**, Assistant Professor—Mathematics: Associate Dean and Registrar; B.S., M.S., Marquette University; New York University; University of Connecticut
- *EDWARD J. BORDEAU**, Associate Professor—Philosophy: Chairperson, Department of Philosophy; Director, Center for Applied Ethics; Ph.B., University of Montreal; M.A., Ph.D., Fordham University; Mellon Fellow, Yale University
- RITA S. BOTWINICK**, Adjunct Assistant Professor—History: B.A., University of South Carolina; M.A., Brooklyn College; Ph.D., St. John's University
- MICHAEL BOZZONE**, Adjunct Associate Professor—English: B.A., M.A., Fordham University; A.B.D., Fordham University
- STEVEN S. BRADDON**, Assistant Professor—Psychology: B.A., Cornell University; M.A., Ph.D., University of Connecticut
- JERRY BRECHER**, Adjunct Assistant Professor—Education (M.A.T.): B.S., New York University; M.A., Fairfield University
- *ARTHUR J. BRISSETTE**, Associate Professor—Accounting/Finance: Chairperson, Department of Accounting/Finance; B.S.C., Loyola University; M.B.A., Northwestern University; doctoral studies, New York University
- *DONALD W. BRODEUR**, Professor—Psychology: Dean, Division of Humanities and Social Sciences; B.S., M.S., Ph.D., Fordham University
- *JOHN W. BROOKES**, Associate Professor—Mathematics/Operations Research/Computer Science: B.A., M.A., M.Phil., Ph.D., Yale University; Mellon Fellow, Yale University
- NICOLE C. BROOKS**, Adjunct Assistant Professor—English: B.A., Middlebury College; M.A.T., Brown University
- *WALTER E. BROOKS**, Associate Professor—Religious Studies: Chairperson, Department of Religious Studies; B.A., Boston College; M.A., Ph.D., Fordham University
- ROSEMARIE T. BROWN**, Adjunct Instructor—English: B.A., M.B.A., Sacred Heart University
- DAVID S. BRUCE**, Adjunct Associate Professor—Computer Science: B.A., Yale University; Alliance Francaise, Paris; Southern Connecticut State College
- JULIA D. BUCHANAN**, Adjunct Instructor—Management: B.S. (Marketing), Sacred Heart University; Masters Program, Sacred Heart University
- KATHLEEN E. BURDEN**, Adjunct Instructor—Secretarial Science: B.S., University of Bridgeport; M.S., Western Connecticut State College
- EUGENE BURSHULIAK**, Adjunct Instructor—English: B.A., University of Connecticut; Southern Connecticut State College; M.A., University of Pennsylvania
- ROBERTA T. CABLE**, Associate Professor—Accounting/Finance: Director M.B.A. Program; B.A., Douglass College, M.B.A., Pace University; New York Institute of Finance; American Institute of Banking; Ph.D., Teachers College, Columbia University
- PAUL E. CAHILL**, Adjunct Associate Professor—English/Speech: B.A., Adelphi University; M.A., Fairfield University
- MARIAN S. CALABRESE**, Associate Professor—English (Speech): B.A., M.A., State University of New York at Albany
- THOMAS J. CALABRESE**, Adjunct Assistant Professor—Business and Psychology; Director, Continuing Education Services and Cooperative Education; B.B.A., M.B.A., Adelphi College
- JAMES R. CAMPBELL**, Adjunct Associate Professor—Art: B.A., Art Center College of Design, CA
- ANTHONY J. CARRIERA**, Adjunct Associate Professor—Business (M.B.A.): B.S., University of Bridgeport
- GERALD J. CARRINO**, Adjunct Assistant Professor—Management: B.A., M.B.A., St. John's University
- PATRICK L. CARROLL, III**, Adjunct Assistant Professor—Business (Legal Assistant): B.S., Southern Connecticut State College; J.D., Franklin Pierce Law Center
- *NICOLE XAVIER CAUVIN**, Associate Professor—Sociology/Social Work/Criminal Justice: Chairperson, Department of Sociology/Social Work/Criminal Justice; B.A., M.A., Ph.D., New York University
- LILA V. CHANNING**, Adjunct Professor—Management: B.A., J.D., University of Michigan
- MARK G. CHANNING**, Adjunct Associate Professor—Business (M.B.A.): B.S., M.A., Columbia University
- JACQUELINE DE LA CHAPELLE-SKUBLY**, Adjunct Associate Professor—French: B.A., M.A., University of Bridgeport; University of New York; Central Connecticut State College; Middlebury College
- VAL CHEVRON**, Adjunct Associate Professor—English: B.S., M.A., New York University; A.B.D., New York University
- RICHARD T. COBURN**, Adjunct Associate Professor—English: B.A., University of Connecticut; M.A., University of Bridgeport; Ph.D., University of Connecticut
- RICHARD P. COE**, Associate Professor—Business (M.B.A.): B.A., M.A., Trenton State College; Ph.D., University of Pittsburgh
- GERHARD H. COLER**, Adjunct Instructor—Foreign Language: M.S., Kaiser Wilhelm University; M.A., University of Connecticut; Ph.D., St. Andrews University, London; 6th year, University of Bridgeport
- BARBARA A. COLETTI**, Adjunct Instructor—Secretarial Science: B.S., Sacred Heart University; Central Connecticut State College
- SCOTT R. COLVIN**, Adjunct Assistant Professor—Accounting: B.A., Westminster College, M.B.A., Case Western Reserve University
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Notes

