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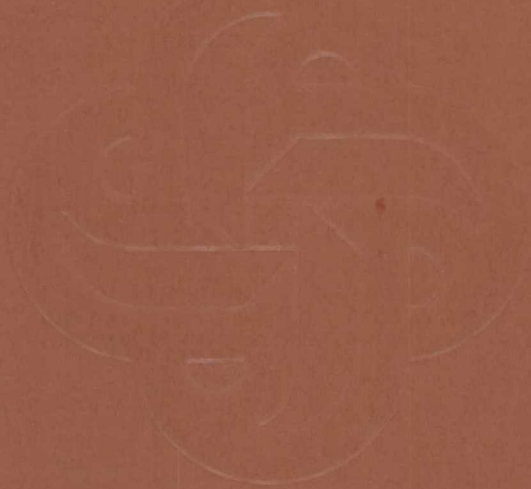
College of Liberal Arts and Sciences



Suffolk University

Bulletin 1984-1986

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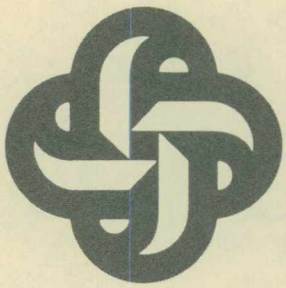

Suffolk University

College of Liberal Arts and Sciences

This supplement supersedes the information printed inside the main Bulletin.

Volume LXXIX — Number 3

Bulletin 1985-1986

Beacon Hill, Boston, Massachusetts 02114 (617) 723-4700

Enrollment

College of Liberal Arts and Sciences	*Full-Time*	*Part-Time*	*Total*	*Full-Time Equivalent*
Undergraduate	1123	402	1525	1275
Graduate Education	13	101	114	49
			1639	1324
School of Management				
Undergraduate	1279	618	1897	1509
MBA	53	605	658	239
MPA	34	137	171	81
Executive MBA	0	116	116	41
Executive MPA	0	7	7	2
Certificate Program	0	16	16	3
			2865	1876
Law School	976	723	1699	1456
Totals	3478	2725	6203	4656

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*Sabbatical Leave Spring 1986
**Sabbatical Leave Academic Year 1985-1986

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Assistant Chief Probation Officer
Boston Juvenile Court

Dr. Rosemary Taylor, Director
Community Health Program
Tufts University

Dr. Terence Thornberry, Dean
School of Criminal Justice
State University of New York, Albany

Dr. Elizabeth Useem
Department of Sociology
University of Massachusetts, Boston

Mr. George White, Manager
Human Resources Management Division
Federal Aviation Administration

Finances and Student Aid

Financial Information

Tuition

Tuition charges are based on (1) the number of courses carried and on (2) whether the student is in the undergraduate or graduate program. A full-time course load consists of 12 to 15 credit hours per term, day or evening and a 16th and 17th credit allowed as Labs only.

Full-Time

Undergraduate	$5040 per year
Courses	$2520 per semester
Graduate MPA	$6588 per year
	$3294 per semester
Graduate MBA	$6807 per year
	$3403.50 per semester
Graduate MED	$5610 per year
	$2805 per semester
Excess Courses	$ 168 per semester hour - undergraduate
	$ 220 per semester hour - graduate MPA
	$ 227 per semester hour - graduate MBA
	$ 187 per semester hour - graduate MED

Part-Time (1 to 3 courses per term — 11 semester hours maximum), Extension and Summer Courses.

Undergraduate	$429 per 3 credit course
	$143 per semester hour
Graduate — MPA	$660 per 3 credit course
	$220 per 3 credit course
Graduate — MBA	$681 per 3 credit course
	$227 per semester hour
Graduate — MED	$561 per 3 credit course
	$187 per semester hour
Executive MBA	$856 per 3 credit course
Executive MPA	$820 per 3 credit course

Tuition charges are subject to change by action of the Board of Trustees. Any such change may be made applicable to students already enrolled in the University.

It can be assumed that during your years of attendance, with continued inflation and its effect on the cost of education, tuition will probably rise each year.

Tuition Payment Plans While the tuition and fees for each semester are due at the time of registration, students who find it necessary may arrange to pay on a deferred payment basis under Payment Plan 2. It must be clearly understood, however, that each student who registers is obligated for the tuition charges for the full semester, even though in approved emergencies the student's tuition liability may be reduced as described on page 14.

There are two payment plans available:

Plan 1: *One payment* of all charges (for full semester) at time of registration for each semester. Students carrying only one course must use this plan.

Plan 2: *Two payments* — one half at time of registration; one half in sixty days.

A service charge of $10 per semester is added to the tuition bill under Plan 2.

In the event that the second installment under Plan 2 is not paid on time, a $10 Late Payment Fee is charged.

If a student does not pay tuition or fees as required according to the regulations

published in the Bulletin, and in Registration Information, or make satisfactory arrangements for such payment with the Manager of Student Accounts, he or she will be dismissed immediately from the University. Collection agency costs or attorney fees will be added to delinquent accounts if necessary.

The University accepts the use of Master Card and Visa for the payment of tuition and fees in excess of $50.

The Student Accounts Office mails material outlining the installment plans the University offers for the payment of tuition.

Students who plan to borrow money from banks or elsewhere for their college costs are urged to submit their applications early enough to meet these payment due dates. Funds not received by these due dates will be assessed a $10 deferred payment charge.

Summer Session Tuition The 1985 Summer Session rate will be:

Undergraduate	$384 per 3 semester hour
MPA	$540 per 3 semester hour
MBA	$558 per 3 semester hour
MED	$510 per 3 semester hour

All summer session students who take one course will be required to pay their tuition in full, plus fees if any, at the time of registration.

Tuition Liability Students who are obligated to withdraw from the university or drop courses before the end of the fourth week of the fall or spring terms will, on the recommendation of the Dean of Students and approval of the Manager of Student Accounts receive a reduction of their tuition liability according to the following schedules:

Undergraduate and Graduate Programs (excluding Executive MBA)

Withdrawal Notice or Drop Form filed and approved:	Student is liable for:
Prior to start of classes	0%
Within two weeks from start of classes	20%
Within three weeks from start of classes	50%
Within four weeks from start of classes	75%
After four weeks from start of classes	100%

Executive MBA/MPA Program

Withdrawal Notice or Drop Form filed and approved:	Student is liable for:
Prior to start of classes	0%
Within two weeks from start of classes	50%

All adjustments in the student's tuition liability will be based on the date on which the Withdrawal Form or Drop Form is received by the Registrar's Office. Non-attendance does not constitute official withdrawal. The Summer Session Tuition Liability is published separately.

The tuition deposit of entering full-time students is non-refundable.

Student Expense Budget For 1985-86

Dependent Full-Time Students:

	Undergraduate	*Graduate*
Tuition	$5040	$5610
Fees	50	10
Room and Board	1100	1100
Books/Supplies	350	350
Medical	500	500
Clothing and Personal	1000	1000
Transportation	700	700
Meals on Campus	900	900
	9640	10,170

(These estimates are subject to change)

Fees

Application Fee (non refundable)	$ 20.00
Tuition Deposit (full-time applicants only, non-refundable)	100.00
Deferred Tuition (service charge for installment payments)	10.00
Late Registration (first two weeks)	25.00
Late Registration (after first two weeks)	50.00
Tuition Surcharge (per semester for each laboratory course designated with an "L" or "F" in the course title)	30.00
Change of Course (charged after second week)	10.00
SCUBA	183.00

Make-up Examination (per Examination) — petition Dean of Students	10.00
Transcripts (first copy free, $1.00 per second copy, and $.50 per additional copy made at the same time)	1.00
Petition for Readmission (students dropped for academic or other reasons)	15.00
Graduation Fee —	
June graduation and commencement	25.00
January and September graduation	8.00
Student Activities Fee (per semester) —	
Full-time undergraduate	25.00
Full-time graduate	5.00
Part-time undergraduate and graduate (except MBA)	5.00
All MBA	10.00
Robert S. Friedman Field Station	12.00/day, $75/week

Special fees are assessed for courses involving travel, theatre tickets, and similar expenses.

It can be assumed that during four years of attendance, with continued inflation and its effect on the cost of education, tuition will probably rise each year.

Graduation Fees The June graduation fee, including diploma, is $25. This fee is payable whether or not the student attends the graduation ceremony. As there is no formal graduation ceremony in January or September, the graduation fee is $8 (cost of diploma). January and September graduates also are invited to attend the June graduation ceremony and, if attending, must pay the full graduation fee of $25. This fee, together with any other unpaid balance, must be paid when the application for degree is filed.

The Grading System Effective as of the Fall Semester of 1980, the following grading system applies to all undergraduate students.

Letter Grade	*Honor Point Grade*
A	4.0
A–	3.7
B+	3.3
B	3.0
B–	2.7
C+	2.3
C	2.0
C–	1.7
D+	1.3
D	1.0
D–	0.7
F	0.0

"I" (Incomplete) indicates a failure to complete course requirements. The "I" grade is given, at the instructor's discretion, only if the student has completed at least half of the course requirements at the end of the semester. Unless an "I" grade is changed by the instructor to an evaluative grade within one year — or by the end of the semester in which the course for which the student received an "I" is next offered (whichever is later) — it is automatically converted to an "F." Natural Science laboratory courses must be made up the next time the laboratory course is offered.

W Does not affect honor point average
P Does not affect honor point average
L Does not affect honor point average

"A", "A–", "B+", "B", and B–" are honor grades.

"C+" and "C" represent satisfactory work.

"C–," "D+," "D," and "D–" represent passing but unsatisfactory work.

"F" is a failing grade. It indicates (a) that more than half of the course requirements are complete but unsatisfactory by the end of the semester or, (b) that the student dropped the course or withdrew from the University without valid cause after the mid-point of the course (in terms of weeks of class). Students who merely stop attending a course without having completed the official forms should expect to receive a grade of "F".

Academic Information

Scholastic Honors

Dean's High Honors List A student shall be eligible for the Dean's High Honor List in any semester in which his or her grade-point average is at least 3.70 and provided he or she receives no grade of D, F, or I, and has earned a minimum of 12 semester hour credits, (full-time students) and a minimum of 9 semester hours, (part-time students).

Dean's Honors List A student shall be eligible for the Dean's Honor List in any semester in which his or her grade-point average is between 3.30 and 3.699 inclusive and provided he or she receives no grade of D, F, or I, and has earned a minimum of 12 semester hour credits, (full-time students) and a minimum of 9 semester hours, (part-time students.)

Degree Programs

The College of Liberal Arts and Sciences offers the following undergraduate degrees:
Bachelor of Arts (B.A.)
Bachelor of Science (B.S.)
Bachelor of Science in Journalism (B.S.J.)
Bachelor of Science in General Studies (B.S.G.S.)
Associate in Arts (A.A.)
Associate in Sciences (A.S.)

Each academic department shall specify whether students majoring in that department shall meet the requirements of the B.A. degree, the B.S. degree, or have a choice of the B.A. or B.S. degree. All degree programs provide a broad liberal arts background and specialization within a single major field.

A minimum of 122 semester hours is required for the bachelor's degrees and 62 for the associate's. Day students normally complete their degree requirements in four years unless they attend the Summer Sessions to accelerate their programs. Evening students normally complete their degree requirements in from five to eight years. Most major programs specify 30 semester hours of course work in the major department, and some specify additional Complementary Major Requirements outside the major department. Requirements for an academic major shall not exceed 36 semester hours, excluding laboratory credits (whether separately listed or not), in any one academic department* unless a waiver is approved by the Curriculum Committee, Educational Policy Committee, and Faculty Assembly.

(* The departments of Physics/Engineering Technology, of Humanities/Modern Languages, and of Mathematics/Computer Science are joint departments and should, for purposes of interpreting this requirement, be considered to be two separate departments.)

Biology

The requirements for all Biology Degree programs have been changed. See your faculty advisor or the Biology Department Chair for the specific requirements.

All Biology courses must be taken with their respective laboratories unless otherwise noted or waived by written permission of the Biology Department Chairperson.

New Courses

Biology 285 — Microbiology (formerly 375). Viruses, bacteria and some fungi are surveyed in terms of their ecology, biochemistry, taxonomy, molecular biology and control. *3 hours lecture. 1 term — 3 semester hours.*

Biology L285 — Microbiology Laboratory (fomerly L375). Introduction to microbiological techniques and their applications in health, research and industry. *3 hours laboratory. 1 term — 1 semester hour.*

Biology 304 — Comparative Physiology. Mechanisms of physiological adaptation to environmental challenges will be studied. Examples of gas exchange, osmoregulation, fluid transport, temperature regulation, nervous control and

hormonal control will be examined in the animal and plant kingdoms. *Prerequisites: Chemistry 211, Biology 113, 114. 3 hours lecture. 1 term - 3 semester hours.*

Biology L304 — Comparative Physiology Lab. Selected physiological processes as displayed by living animal and plant organ systems will be examined. Electronic recording and stimulating instruments as well as biochemical analyses will be used to investigate mechanisms of adaptation in plants, invertebrates and vertebrates. *3 hours laboratory. 1 term — 1 semester hour.*

Biology 355 — Invertebrate Zoology I. A survey of the lower invertebrate phyla, from the Porifera through pseudocoelomates, including aspects of their biology as well as morphology and systematics. Emphasis will be placed on the origin and evolution of the Metazoa, and on the phenomenon of parasitism. *Prerequisites: Biology 114, L114 or equivalent. 3 hours lecture. 1 term — 3 semester hours.*

Biology L355 — Invertebrate Zoology I Laboratory. Identification of lower invertebrates, including anatomy of selected specimens. Invertebrate embryology, development and physiology. *Field trips to local habitats. 3 hours laboratory. 1 term — 1 semester hour.*

Biology 356 — Invertebrate Zoology II. A survey of the coelomate invertebrate phyla, from molluscs through chordates. Emphasis will be placed on the morphology, classification, and adaptations of both aquatic and terrestrial forms. *3 hours lecture. 1 term — 3 semester hours. Prereq.: Biology 113, 114.*

Biology L356 — Invertebrate Zoology II Laboratory. Identification of higher invertebrates, including detailed anatomy of selected specimens. Embryology, development, and physiology. *Field trips to local habitats. 3 hours laboratory. 1 term — 1 semester hour.*

Biology 377 — Immunology (formerly 275). The concept of immunity, response to infection, structure of the immune system, biochemistry of the immunoglobulins, antigen-antibody interactions, allergy, immunological injury, lymphocyte subpopulations and cellular immunity, histocompatibility, the genetics of immunity, tolerance, suppression and enhancement. Emphasis is placed on an historical and experimental approach. *Prerequisite: Biology 114 and Chemistry 211. 3 hours lecture. 1 term — 3 semester hours.*

Biology L377 — Immunology Laboratory (formerly L275). Anatomy of the immune system, immunoglobulin purification, production of antibodies in rabbits, hemagglutination, enzyme immunoassay, immunochemistry, immunoelectrophoresis, gel precipitation assay, analysis of the student's own rabbit serum preparation. *3 hours laboratory. 1 term — 1 semester hour.*

Biology 403 — Cell Biology (formerly Cell Physiology). The structure and function of eukaryotic cells will be studied in detail. The functions of cell membranes, cell organelles, and the cytoskeleton will be covered. Experimental protocols will be emphasized. *Prerequisites: Chemistry 211, Biology 113, 114. 3 hours lecture. 1 term — 3 semester hours.*

Biology L403 — Cell Biology Laboratory (formerly Cell Physiology Lab). Techniques in electrophoresis, differential centrifugation, organ culture, cell culture and respirometry will be applied to select experiments in cell biology. Analysis and interpretation of experimental data using microcomputers will be emphasized. *3 hours laboratory. 1 term — 1 semester hour.*

Biology 474 — Molecular Genetics. Introduction to molecular genetics. Topics include genetic fine structure and function at the molecular level; transcription, translation and their control in prokaryotes and eukaryotes; bacteriophage genetic regulation; mutagenesis; recombinant DNA and genetic engineering. *1 term — 3 semester hours. Prerequisites: Biology 274, L274, Biology 285, L285, Biology 377, L377 and Chemistry 212, L212.*

Biology L474 — Molecular Genetics Laboratory. Series of exercises to introduce students to the techniques of recombinant DNA including vector cloning, molecular cloning, restriction enconuclease analysis, transformation of *E. coli* with recombinant DNA, biological analysis of recombinant plasmids. *1 term — 1 semester hr.*

Biology 475 — Developmental Biology. An examination of the molecular, cellular, biochemical and environmental mechanisms that regulate the developmental processes in plants and animals. Topics discussed include the processes of differentiation, determination, tissue induction, morphogenesis, polarity, totipotency, etc. *Prerequisites: Biology 274, L274; 304, L304 and Chemistry 211, L211. 3 hours lecture. 1 term — 3 semester hrs.*

Biology L475 — Developmental Biology Laboratory. A series of investigations of developmental phenomenon which illustrate the basic principles of development. Production of plants from single cells; tissue differentiation; the role of light in development; roles of hormones in regulation of development; and sequential gene induction during development are some of the phenomena which will be studied. *3 hours laboratory. 1 term — 1 semester hr.*

Courses Deleted from the Catalog

Biology	204	Animal Behavior
Biology	L204	Animal Behavior Lab
Biology	L273	Biometrics Lab
Biology	303	Plant Anatomy
Biology	L303	Plant Anatomy Lab
Biology	376	Parasitology
Biology	L376	Parasitology Lab
Biology	404	Animal Physiology
Biology	L404	Animal Physiology Lab
Biology	414	Plant Physiology
Biology	L414	Plant Physiology Lab

Biotechnology (Bachelor of Science Degree)

Freshman	Sem. Hrs.
Biology 113-114; L113-L114	8
Chemistry 111-112; L111-L112	8
Mathematics 161, Mathematics Option	6
English	6
Integrated Studies	6
	34

Sophomore	Sem. Hrs.
Biology 285, L285, 274, L274	8
Chemistry 211-212, L211-L212	8
English	6
Speech	3
Soc. Sci. Option	3
Scientific Writing	1
	29

Junior	Sem. Hrs.
Biology 333, L333, 304, L304	8
Biology 377, L377	4
Program Elective*	4
Physics 111-112, L111-L112 or 151-152, L151-L152	8
Humanities Option	3
Logic	3
Biology 479 (Technology Seminar)**	1
	31

Senior	Sem. Hrs.
Biology 474, L474, 403, L403	8
Humanities Option	6
Soc. Sci. Option	6
Electives	7
Major Elective	1
	28

**Program Elective Must be selected from:*
Biology 223, L223
Biology 224, L224
Biology 273
Biology 385, L385
Biology 475, L475

***Students are encouraged to seek relevant industrial experience during the summer between Sophomore and Junior year/Junior and Senior year and to use the seminar as a reporting forum.*

The Biology Dept. will make every effort to seek appropriate experiences but cannot guarantee placement.

Chemistry Catalog

Be sure to check with Departmental Advisor about ambiguities in Chemistry section, pages 72-78.

Communications and Speech

Areas of Concentration*

Track 1: Legal Argument
Track 2: Forensics
Track 3: Mass Communication
Track 4: Organizational Communication
Track 5: Rhetoric
Track 6: Theatre

**Requirements in all tracks have been revised. Interested students should consult their faculty advisor or the Chairperson of the Department of Communications and Speech for specific requirements.*

Computer Science

New Course

Computer Science 343 — Artificial Intelligence: Software. An introduction to the tools, techniques, and applications of artificial intelligence. *Prerequisites: MATH 162, CMPSC 223 and CMPSC 265. 1 Term — 3 hours. Normally offered in alternate years.*

Education

New Courses

ED 325 — Methods of Teaching Bookkeeping, Accounting, Data Processing, and Business Mathematics. Principles and demonstration of modern methods of teaching bookkeeping, accounting, data processing, and business mathematics. Development and utilization of classroom materials and media. Effect of data processing and introduction of the microcomputer as a vital tool

for handling basic accounting applications. *1 Term — 3 semester hours. Normally offered in alternate years — 3 credits.*

Education 360 — Fundamentals of Legal Assisting. Introduces the student to the basics of the legal system and responsibilities of legal assistants. Topics covered include the development of the lawyer's assistant, unauthorized practice of law, interviewing techniques and legal research. *1 Term — 3 semester hours. Normally offered yearly.*

Education 361 — Legal Research and Writing. A working knowledge of legal bibliography and research techniques. The student will have a working knowledge of major categories of law books, be able to find a state court rule, a sample pleading a recent statute. *1 Term — 3 semester hours. Normally offered yearly.*

Education 362 — Civil Litigation and Procedures. The Rules of Civil Procedure dictate the steps taken in state and federal lawsuits. This course will acquaint students with rules and the practical requirements of rules, from filing a complaint to clarifying a judgement. *1 Term — 3 semester hours. Normally offered yearly.*

Education 363 — Law of Contracts. The existence and validity of a contract is determined by specific rules. Students will learn about formation through offer and acceptance, its enforceability, the necessity of consideration, and breach of contract. *1 Term — 3 semester hours. Normally offered yearly.*

Education 364 — Law Office Administration. Small, medium and large private law firms and public law offices have similarities and differences in administration. The course will focus on concepts in record keeping, file organization, calendar scheduling, and sample information. *1 Term — 3 semester hours. Normally offered yearly.*

Education 365 — Estates and Trusts. State laws affect the disposition of an individual's estate at death, but state and federal laws tax estates. Lawyer's assistants can be valuable in information gathering for estates and trusts, and assist in drafting basic documents. *1 Term — 3 semester hours. Normally offered alternate years.*

Education 366 — Law of Business Organization. Corporations, partnerships and sole proprietorships are different business organizations created by special rules. Agency law which affects businesses will also be studied in this course. *1 Term — 3 semester hours. Normally offered alternate years.*

Education 367 — Criminal Litigation. Constitutional law, the Rules of Criminal Procedure and the common law definitions of crimes will be studied. A familiarity with the complex areas of criminal law. *1 Term — 3 semester hours. Normally offered alternate years.*

Education 368 — Real Estate Law. This course will present common law real estate principles and the effect of federal agencies on the buying and selling of real property. Sample forms including leases, purchase and sale agreements and closing forms are reviewed. *1 Term — 3 semester hours. Normally offered alternate years.*

Education 369 — Domestic Relations. Family law includes divorce, separate support, custody, property division, and abuse prevention petitions. Essentially an area of state law, it is often the backbone of general practice law firms. *1 Term — 3 semester hours. Normally offered alternate years.*

Education 370 — Administrative Law. Federal and state administrative agencies such as FTC, NLRB and EEOC are sources for a great deal of law. Familiarity with these agencies is useful in labor relations, corporate law and education law. *1 Term — 3 semester hours. Normally offered alternate years.*

Education 371 — Consumer Law. Federal and state statutes and regulations protect consumers in a variety of ways. This course will deal with such important laws as the Truth-in-Lending Act and the Massachusetts 393 A, Consumer Protection Statute. *1 Term — 3 semester hours. Normally offered alternate years.*

Education 372 — Environmental Law. Environmental Protection statutes have been enacted by federal and state governments and are carried out by Environmental Protection Agencies. This new area of law and its enforcement will be studied in this course. *1 Term — 3 semester hours. Normally offered alternate years.*

Education 373 — The Computer as a Research Tool. Legal research can be made easier by use of a computer. This course will discuss computer research tools such as Weslaw and their effect on court and law office administration. *1 Term — 3 semester hours. Normally offered alternate years.*

Education 374 — Medical and Legal Malpractice. As an area of tort law, medical and legal malpractice share common concepts. This course will focus on medical malpractice as the more litigated area, but will also discuss legal malpractice principles. *1 Term — 3 semester hours. Normally offered alternate years.*

Graduate Education

As of the Fall 1986 semester, degree-seeking applicants will be required to submit the results of a graduate-level standardized test (e.g., GRE, Miller Analogies, GMAT) and/or a written statement of substantial breadth outlining personal and professional goals.

New Courses

Education 674 — Applications for the Personal Computer. A "hands-on" course which will cover the various aspects, productivity tools, and applications of the personal computer including: word processing, database, spreadsheets, graphics, and electronic mail. *Prerequisite: Knowledge of Keyboarding. Normally offered summer session — 3 credits.*

Education 843 — Cognitive and Emotional Problems of the Special Need Child. The development of cognitive, emotional, and social processes is examined from the perspective of major developmental theorists. *1 Term — Normally offered yearly. 3 semester hours.*

Discontinued Courses

Education 767 — Marine Education for Elementary Teachers
Education 768 — Hospitalization and the Young Child
Education 773 — The Classroom Teacher as an Artist

New Programs

Lawyer's Assistant Certificate Program

Program Advisors: Ms. Lynne Dahlborg, Dr. Louis A. D'Abrosca and Dr. Joseph M. McCarthy.

Admissions Requirements

All candidates desiring to be considered for admission to the Lawyer's Assistant Certificate Program must meet *one* of the following admission requirements:

1. Have earned 30 credits from an accredited post secondary institution or;
2. Be recommended in writing by (a) supervising attorney(s) who will attest to the candidate's successful employment for the equivalent of two years performing suitable and significant tasks in an appropriate law-related setting or;
3. Hold a Bachelor's degree from an accredited institution.

The Lawyer's Assistant Certificate Program will consist of ten three-credit bearing courses: five required courses and five electives, for a total of 30 credit hours for certificate completion.

The courses in this particular program are *not* intended for pre-legal study, but for a law employment credential.

Required Courses:

Education 360	Fundamentals of Legal Assisting
Education 361	Legal Research and Writing
Education 362	Civil Litigation and Procedures
Education 363	Law of Contracts
Education 364	Law Office Administration

Electives Courses:

Education 365	Estates and Trusts
Education 366	Law of Business Organization
Education 367	Criminal Litigation
Education 368	Real Estate Law
Education 369	Domestic Relations
Education 370	Administrative Law
Education 371	Consumer Law
Education 372	Environmental Law
Education 373	The Computer As A Research Tool
Education 374	Medical & Legal Malpractices

Government

New Courses

Government 205 — Women and Third World Politics. A look at the particular values, structures, policies which shape the political attitudes and behavior of women and toward women in non-Western societies; the perspective which a focus on women's issues brings to the study of political development and change. *1 term — 3 semester hours. Normally offered alternate years.*

Government 481 — Topics in Comparative Politics. Designed for Government majors with a particular interest in political structures, behaviors or issues that are most properly studies in a comparative context, for example, revolution, ideology, bureaucracy, etc. Content will reflect the particular

research interests of both the instructor and the students drawing upon a large body of comparative political literature. *1 term — 3 semester hours. Normally offered alternate years.*

Changes

Government: Track B (Public Policy and Administration: Track B majors are also expected to fulfill an experimental requirement which may be met through a Government internship and seminar combination consisting of 6 to 15 semester hours (Government 521 and 522; 523 and 525; 524 and 525; Government 526, 528, and 529; or 527, 528, and 529); or through a Cooperative Education experience together with the 3 semester hour Internship Seminar (Government 522) or demonstration of equivalent experience and acquired skills, subject to the department's approval.

Track B

Major Requirements	Sem. Hrs.
Government 111-112 (Politics and Government I & II)	6
Government 221-222 (Public Administration I & II)	6
Government 224 (Introduction to Public Policy)	3
Government 374-375 (Research Methodology and Applied Methods in Public Affairs)	6
Electives in Government	9
	30

Humanities and Modern Languages

New Courses

Humanities 111 — History of Music, I. A chronological survey of Western music from Gregorian Chant to the death of Beethoven. Assigned readings, critical listening, class discussion and concert attendance. *No prerequisite. 1 term — 3 semester hours. Normally offered every year.*

Humanities 112 — History of Music, II. A chronological survey of Western music from Schubert to the present. Assigned readings, critical listening, class discussion and concert attendance. *No prerequisite. 1 term — 3 semester hours. Normally offered yearly.*

Humanities 225 — Music Around Boston. Representative concerts of chamber, orchestral and vocal music. Introductory study of musical materials, the works to be performed, their composers and the time in which they lived. Discussion of the concerts and evaluation of the performances. *1 term — 3 semester hours. Normally offered alternate summers. Costs for attendance at concerts will be borne by the students.*

Changes

Substitute Humanities 111-112 for Humanities 121-122 in the Humanities Option Requirements and the Complementary Major Requirements-Humanities:Humanities.

Discontinued Course

Humanities 331 — Mythology and its Representation in the Ancient World.

Interdepartmental Programs

Women's Studies

New Course

Women's Studies 503 — Field Studies in Women's Studies. Includes opportunities for creditworthy field experiences such as internships, symposia, seminars, practicums, etc., relevant to Women's Studies. Open to all Minors in Women's Studies by special arrangement with a designated faculty member and the student's Women's Studies advisor. *1 term — 1-3 semester hours. Offered as opportunities arise.*

Changes

Add to Women's Studies (p. 49)

Government 205 Women and Third World Politics
Psychology 237 Psychology of Women
Women's Studies 503 Field Studies in Women's Studies

Women's Studies

Substitute for Women's Studies Advisory Committee:(p. 150)

Women's Studies Committee:
Dr. Agnes S. Bain, Govt, Convener; Dr. John Berg, Govt; Dr. Rebecca DiLiddo, Biology; Prof. Judith R. Dushku, Govt; Dr. Kenneth Greenberg, History; Prof. Ann Hughes, English; Dr. Nancy Mattei. Counseling Center; Dr. Martha Richmond, Chemistry; Ms. Wendy Sanford, Campus Ministry; Dr. Steven Spitzer, Sociology; Dr. Alexandra Todd, Sociology; Dr. Margaret Collins Weitz, Humanities; Ms. Melanie Zybala, History.

Designated Course Component
(p. 151)

Government 205 — Women and Third World Politics
Psychology 237 — Psychology of Women

Special Topics: (p. 151)

Some students may wish to include specialized research in their minor. They may do so by including, as part of their 12 designated course credits, 3 credits of "directed study" using the designation, Women's Studies 511 — Directed Study in Women's Studies; and/or 3 credits of "field study" using Women's Studies 503 — Field Studies in Women's Studies.

Substitute for Information/Advising: (p. 151)

For information and advising, students should see a faculty member who is on the Women's Studies Committee.

Journalism

New Courses

Journalism 280 — Introduction to Practical Journalism. An examination of the methods used in developing a newspaper to serve a particular readership's needs. Included in the course will be supervised writing, editing, layout and design, paste-up and critiquing of the target publication, the *Suffolk Journal*, the Suffolk University student newspaper. *Prerequisite: Journalism 114. 1 term — 3 semester hours. Normally offered yearly.*

Journalism 380 — Advanced Practical Journalism. A study of research and reporting skills, advanced editing techniques and layout and design principles. The course will include extensive critiquing of the target publication, the *Suffolk Journal.* Students should be involved in either extensive reporting projects or hold a supervisory, editorial or managerial position on the *Journal. Prerequisite: Journalism 114 and Journalism 280. 1 term — 3 semester hours. Normally offered alternate years.*

Changes

Because of some changes in the degree requirements, students should consult with their academic advisors prior to registering for classes.

WSUB is not a closed circuit television operation but rather an organization for students interested in gaining video experience. Please note these changes on p. 29 and 154.

Mathematics

Changes

All students taking Finite Math I and II (MATH 111 and 112) are required to take and pass a competency examination which is administered in class during the first two weeks of the semester. The exams deal with carefully selected basic mathematical skills which are too elementary to be covered in Finite Math but which students must master in order to successfully handle various topics in Finite Math and in courses which follow Finite Math (such as Economics, Physical Science, Statistics, Quantitative Methods, etc.).
The exams are graded on a pass-fail basis and do not affect course grades except that each student must pass the exam in order to be given a passing grade in the course.
If a student fails the exam, he or she is permitted to continue taking Finite Math but is expected to seek tutorial help in special Math Clinic sessions and try the test again.
The special Math Clinics cover the required material over a period of five weeks. At the end of that period, students are given the opportunity to retake the exam. Ordinarily, clinic cycles are repeated three times each semester.
In the unlikely event that a student completes the semester with a passing grade in Finite Math but without managing to pass the exam, then that student is given a grade of 'I' with the proviso that the 'I' will be changed to 'F' if the exam is not passed during the following semester.

Military Science

New Courses

MLSCI 103 — Introduction to Military Studies I and II. This course combines the requirements of MLSCI 101 and MLSCI 102. It is intended for Freshmen that were not able to take MLSCI 101 in the fall semester. *Spring Semester. 2 semester hours.*

Change

MLSCI 101	American Military Heritage should now read:
MLSCI 101	Introduction to Military Studies I
MLSCI 102	Land Navigation should now read:
MLSCI 102	Introduction to Military Studies II

Philosophy

Change

Philosophy 127 Law, Business and Society course description to read:

Systematic examination of some fundamental moral problems that arise in various spheres of contemporary human activity. Specific topics will be chosen by instructor from the following: abortion, euthanasia, capital punishment, civil disobedience, preferential treatment, and war. Topics will be introduced through background lectures, followed by extended class discussions. *No prerequisite. 1 term — 3 semester hours. Offered alternate years.*

Psychology

New Course

Psychology 237 — Psychology of Women. Explores women's psychological development and experience. Covers sex roles and how society's attitudes about girls and women affect female self-concept, personality, relationships, and work experience. Topics include women of color, sexual harassment, power, and violence against women. *1 term — 3 semester hours. Normally offered alternate years.*

To Boston & Suffolk University

As a commuter institution, Suffolk University urges students to use public transportation whenever possible. The University is located adjacent to the Massachusetts State House and near the "New Boston" Government Center, only a short walk from MBTA subway stations at Park Street, Government Center, Bowdoin, State Street, Haymarket, Charles Street and North Station. It is also readily accessible by major buslines and railroads.

Persons traveling by car to Suffolk University from outside of Boston should use the following directions:

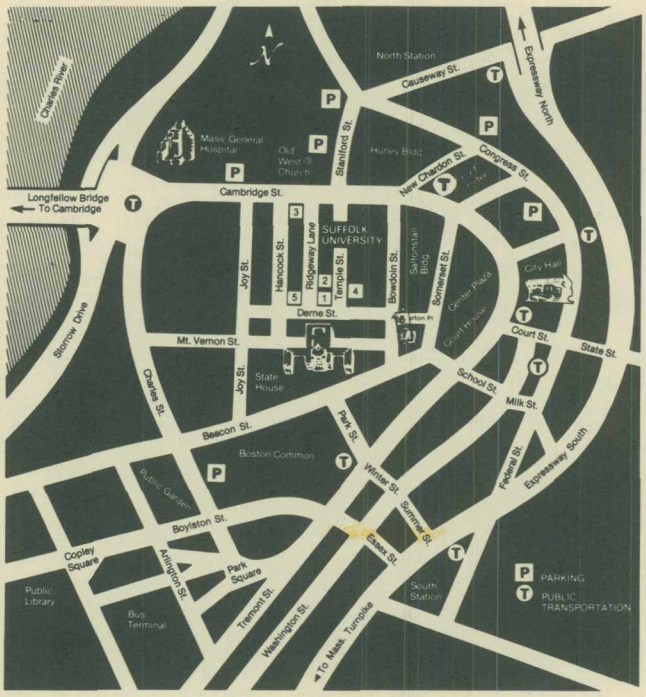
From the South — Southeast Expressway to the Causeway Street exit; Causeway Street to Staniford Street; right onto Cambridge Street to a public parking garage adjacent to Holiday Inn.

From the North — Expressway south to Haymarket Square exit; Government Center Garage at exit, or take New Chardon Street to Cambridge Street; right on Cambridge to public parking garage.

From the West — Massachusetts Turnpike and Turnpike Extension to Expressway; Expressway north to Causeway Street exit; Causeway to Staniford Street; right onto Cambridge Street to public parking garage.

To Friedman Lab — Maine Turnpike to Augusta; Rt. 3 to Belfast; from Rt. 3 Belfast to Rt. 1 North to R.S. Friedman Cobscook Bay Lab, Edmunds, Maine.

Public Garages — Government Center, Longfellow Towers — Staniford Street, Charles River Plaza — Cambridge Street.



Suffolk University

1. Archer Building at 20 Derne Street
2. Donahue Building at 41 Temple Street — Law School
3. Student Activities Ridgeway Building at 148 Cambridge Street
4. 56 Temple Street
5. Fenton Building at 32 Derne Street — College of Liberal Arts and Sciences
6. Frank Sawyer Building at 8 Ashburton Place — School of Management; Accounting, Admissions, Cafeteria, Financial Aid, Mildred Sawyer Library, Placement, Registrar
7. 11 Beacon Street — Alumni, Development, Grants, Institutional Research, Personnel, Public Relations.

○ STRATEGIC Planning Com. Wed. 3-5 or Fri
□ SU-HEMI Wed 1-4
△ LRP Fri 9:15-12:00
□ = Holiday
□ = Make up Monday
= Vacation

1985

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1986

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1987

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M E M O R A N D U M

TO: All CLAS Faculty

FROM: Dr. Edward J. Harris, Jr., Speaker CLAS Educational Policy Committee

DATE: May 5, 1986

RE: Faculty Election Results

The following are the results of the faculty elections which concluded May 2, 1986:

EPC Elections

Group A - Prof. Anthony Merzlack
Group B - Prof. David Robbins
Group C - Prof. Arthur West
Group D - Prof. Robert Garneau
Group F - Prof. Laura Hourtienne
At Large - Prof. Ann Hughes

PTR Elections

Humanities Division - Prof. Ken Greenberg
Natural Science Division - Prof. Beatrice Snow
Social Science Division - Prof. John Berg

E. J. H.

/kmg

Fall '86

Evening class meetings

Classes	M	T	W	Th	Fri	Sat
sept	4	5	4	4	4	4
oct	3	4	5	5	5	4
Nov	4	3	3	3	3	4
Dec	2	2	2	1	1	1
	13	14	14	13	13	13

Spring '87

Evening class Meetings

		M	T	W	Th	Fri	Sat
Jan	2	3	3	3	3	3	3
Feb	3	4	4	4	4	4	4
March	4	4	4	3	3	3	3
April	3	4	4	5	5	4	4
May	0	0	0	0	0	1	1
		12	14	15	15	15	15
		+2			-1		
		14			14		

makeups

College Calendar 1985 - 1986

Fall Semester 1985

June	24-28	Mon.-Fri.	CLAS and SOM New Freshman Orientation and Registration
Aug.	26-28	Mon.-Wed.	Orientation and Registration - New Transfer Students
	29	Thursday	Late registration for returning students
Sept.	2	Monday	*Labor Day Holiday*
	3	Tuesday	Evening classes (4:30 p.m. and later) convene
	4	Wednesday	Day classes convene
	7	Saturday	Saturday classes convene
	13	Friday	Last day for non-degree student admission and for late registration
	18	Wednesday	Last day for course changes
	25	Wednesday	Last day for filing application for Spring and Summer final make-up examinations
Oct.	14	Monday	*Columbus Day Holiday* (See Oct. 15 make-up)
	15	Tuesday	Monday evening classes (4:30 p.m. or later) meet on Tuesday, October 15 to make up for holiday. Tuesday evening classes cancelled.
	16-17	Wed.-Thurs.	Spring and Summer final examination make-up
	28	Monday	Last day to apply for February graduation Last day for withdrawal without penalty of "F" grade.
Nov.	11	Monday	*Veterans Day Holiday*
	27-	Wed.-Sun.	Thanksgiving recess begins 1:00 p.m. Wednesday, November 27 through
Dec.	1		Sunday, December 1
	2-6	Mon.-Fri.	Spring 1986 preregistration for students currently attending
	11	Wednesday	Last classes for Fall semester
	12-18	Thurs.-Wed	Fall semester final examinations; No exams in preceding week
	19	Thursday	Winter vacation Thursday, December 19 through Sunday, January 5, 1986
	27	Friday	Faculty submit Fall grades

Spring Semester 1986

Jan.	6-8	Mon.-Wed.	Orientation and Registration for New Students
	9	Thursday	Late registration for returning students
	13	Monday	Day and evening classes convene
	17	Friday	Last day for non-degree student admission Last day for late registration
	18	Saturday	Saturday classes convene
	20	Monday	*Martin Luther King Holiday*
	24	Friday	Last day for course changes Last day for filing application for Fall final make-up examinations
	31	Friday	Last date to apply for June graduation
Feb.	11-12	Tues.-Wed.	Fall final examination make-up
	17	Monday	*Washington's Birthday Holiday*
Mar.	10	Monday	Last date for withdrawal without penalty of "F" grade
	17	Monday	*Evacuation Day*
	16-23	Sun.-Sun.	*Spring vacation*
April	7-18	Mon.-Fri.	Faculty advising and registration for students continuing in the Summer Session
	21	Monday	*Patriots' Day Holiday* (See April 22 make-up)
	22	Tuesday	Monday evening classes (4:30 p.m. or later) meet on Tuesday, April 22 to make up for holiday. Tuesday Evening classes cancelled.
	21-	Mon.-Fri.	Fall 1986 faculty advising and pre-registration for
May	2		students currently attending
	3	Saturday	Last classes for Spring semester
	5-10	Mon.-Sat.	Final examinations
	14	Wednesday	Faculty submit Spring grades
	26	Monday	*Memorial Day Holiday*
June	8	Sunday	Commencement Day

Summer Session 1986

May 13 - June 20	First Six-Week Day Session
May 13 - July 1	First Seven-Week Evening Session
July 8 - August 15	Second Six-Week Day Session
July 8 - August 21	Second Seven-Week Evening Session

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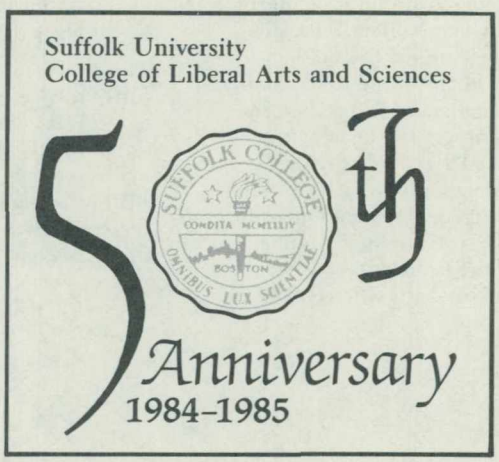
Suffolk University

College of Liberal Arts and Sciences



Bulletin 1984-1986

Beacon Hill, Boston, Massachusetts 02114 (617) 723-4700

Suffolk University admits qualified men and women of any age, race, color, religious belief, or national or ethnic origin to all the rights, privileges, programs and activities generally available to students of the University. It does not discriminate because of age, race, color, religious belief, national or ethnic origin or marital or parental status in administration of its admissions policies, educational policies, scholarship and loan programs, athletic programs, or any of the academic or non-academic programs administered by any division of the University. Suffolk University does not discriminate on the basis of sex in violation of Title IX of the Education Amendments of 1973, or any of the regulations specified in these Amendments, in the academic or non-academic programs which it offers. The University does not discriminate on the basis of handicap in violation of Section 504 of the Rehabilitation Act of 1973, or the regulations it specifies, in admission or access to its programs and activities. Inquiries concerning Title IX and other federal and state non-discrimination legislation may be referred to the Personnel and Equal Employment Opportunity Officer, 8 Ashburton Place, 7th floor. Inquiries regarding Section 504 of the Rehabilitation Act may be directed to the Dean of Students who is the University Coordinator.

Rights and Privacy (Buckley Amendment)
In keeping with provisions of the Family Educational Rights and Privacy Act of 1974 (P.L. 93-380) as amended (P.L. 93-568), also known as the Buckley Amendment, Suffolk University will provide eligible students or their parents with the opportunity to review the student's education records, to seek corrections of information contained in those records, and to limit disclosure of information from those records. The University is required to give students or their parents annual written notice of these rights and the right to file complaints with HEW concerning alleged failures by the institution to comply with the requirements of the Act. A written policy governing institutional record keeping is on file at the Registrar's Office.

The provisions on privacy are affected by Section 510 of the Veterans Education and Employment Act of 1976 (P.L. 94-52) which provides that notwithstanding P.L. 93-568, records and accounts pertaining to veterans as well as those of other students shall be available for examination by government representatives. The exception is found in title 38 of the U.S. Code, Section 1790(c).

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Enrollment

College of Liberal Arts and Sciences	*Full-Time*	*Part-Time*	*Total*	*Full-Time Equivalent By School*
Undergraduate	1165	373	1538	2039
Graduate Education	19	101	120	55
			1658	2094
School of Management				
Undergraduate	1280	628	1908	755
MBA	67	713	780	293
MPA	36	127	163	82
Executive MBA	0	144	144	52
Executive MPA	0	15	15	5
Certificate Program	0	17	17	4
			3027	1191
Law School	906	702	1608	1370
Totals	3474	2820	6294	4655

Retention

National studies indicate that of entering freshmen, the median percent graduated in four years varies from 35% to 40%. At Suffolk University, 38% of entering freshmen are graduated in four years, and 49% in six years.

Degrees

College of Liberal Arts and Sciences
- Day and Evening Divisions, Undergraduate: B.A., B.S., B.S. in J., A.A., A.S., B.S. in G.S.
- Day and Evening Divisions, Graduate: M.A., M.Ed., M.S. in B.Ed., M.S. in Counselor Ed.
- Certificate of Advanced Graduate Study

School of Law
- Day and Evening Division: J.D., M.P.A./J.D.

School of Management
- Undergraduate: B.S.B.A.
- Graduate: M.B.A. and M.P.A.
- Postgraduate: Advanced Professional Certificate

Location

Beacon Hill, Boston, adjacent to the Massachusetts State House and near the "New Boston" Government Center, public parking and transportation. Cobscook Bay, Edmunds, Maine, site of the Robert S. Friedman Field Station.

Facilities

Building Name	*Address*	*Net Square Footage*
Gleason and Hiram Archer Building	20 Derne Street	58,000
Frank J. Donahue Building	41 Temple Street	60,800
Temple Street Building	56 Temple Street	2,900
19 Ridgeway Lane Building	148 Cambridge St.	5,400
John E. Fenton Building	32 Derne Street	20,400
Frank Sawyer Building	8 Ashburton Place	85,410
R. S. Friedman Field Station at Cobscook Bay	Edmunds, Maine	

Libraries

Law Library	185,000 Volumes
Library of the Colleges	90,000 Volumes
Museum of Afro-American History	2,500 Volumes
Periodicals Subscriptions	2,000
Microforms Units	370,000
Fenway Consortium	660,000 Volumes

Faculty

	Full-Time	*Part-Time*
College of Liberal Arts and Sciences	100	67
School of Management	58	28
Law School	63	28

Finances

Endowment	8,497,000
Plant Assets	26,907,000
Operating Budget	25,400,000

Tuition

College of Liberal Arts and Sciences	
Undergraduate	$4500
Graduate Education	5100
School of Management	
Undergraduate	4500
MPA	5400
MBA	5580
Executive MBA	$718 per 3 semester hour
Executive MPA	685 per 3 semester hour
Law School	
Day	$5950
Evening	4462.50

Financial Aid

Federal	$2,322,800
State	888,470
University (and other sources)	885,900
Other	65,000
Guaranteed Student Loans	8,450,000

Altogether, over 3,200 students receive some form of financial assistance — loans, work-study, or scholarships. Priority is given to needy students who file on time.

Athletics

Members of N.C.A.A., E.C.A.C., N.E.C.A.C., and M.A.I.A.W.

Intercollegiate competition for men in Baseball, Basketball, Cross-Country, Golf, Ice Hockey and Tennis

Intercollegiate competition for women in Basketball, Cross-Country and Tennis

Intramural competition in Basketball, Flag Football, Softball and Tennis

Club Sports: Soccer, Track & Field, Weight-lifting and Wrestling. Programs are also offered in swimming and aerobics.

3 time winner of the Little Four Intercollegiate Golf Tournament

1982 Babson Women's Basketball Tournament Champions

1982 & 1983 M.A.I.A.W. Tennis Champion: Patti Stanziani

Suffolk University

History Suffolk University is a vital and dynamic university with 6,300 students of all ages enrolled full and part time in its College of Liberal Arts and Sciences, its School of Management and its Law School. The University is located on Beacon Hill in the heart of Boston and is accessible from all parts of the metropolitan area.

Founded as a law school, the institution developed by adding a College of Liberal Arts and Sciences in 1934 and a School of Management (then College of Business Administration) in 1937. On April 29, 1937, the Law School and two Colleges were chartered as Suffolk University by the Massachusetts General Court.

The Law School awards the juris doctor degree to its graduates and is accredited by the American Bar Association and the Association of American Law Schools. The College of Liberal Arts and Sciences awards the bachelor of arts and bachelor of science degrees in fifteen academic departments and the master's degree in education. A certificate of advanced graduate study program is offered to persons with Masters' Degrees in the counseling field. The School of Management conducts under-graduate and graduate programs in both business and public administration, as well as Saturday masters in business administration and masters in public administration programs for executives. An advanced certificate program is offered to holders of the master of business administration degree, and a joint master of public administration and juris doctor degree is offered by the Law School and the School of Management.

Since 1906 when Gleason L. Archer established a law school for working adults, Suffolk University has graduated over 27,000 students who have taken their places in the professional world. Among the alumni are some of New England's outstanding jurists, attorneys, businessmen and women, teachers, writers and scientists.

In the summer of 1981 the University opened the new twelve-story Frank Sawyer Building at Eight Ashburton Place. The University's other facilities, near the State House, include the Archer Building (1921), the Frank J. Donahue Building (1966) and the John E. Fenton Building (1972). In addition to small buildings used for faculty offices and student activities, the University operates the Friedman scientific field station at Cobscook Bay in Maine.

During its 77 years, Suffolk has grown in size and in the scope and quality of its academic programs. As it develops new programs to meet emerging needs, Suffolk University remains guided by Gleason Archer's strong commitment to the community and to its people.

University Mission Suffolk University is an independent, coeducational institution located on Beacon Hill, in the heart of Boston, close to the centers of government and law, science and medicine, education and technology, commerce and culture. Under the policies established by its Board of Trustees, the University provides educational opportunities of high quality in order to assist a wide range of students to realize greater social, economic and professional opportunities.

Since its inception, *Suffolk University's fundamental mission has been to respond to the evolving needs of society by providing an opportunity for motivated and capable students to obtain a quality education in a challenging yet supportive environment, at an affordable cost.* This mission also includes a commitment to public service, research and continuing education. In achieving its mission, the University places students at the center of its efforts and value structure, and emphasizes academic excellence through teaching based on the application of theory and research to practice. The University offers day and evening programs at both the graduate and undergraduate levels throughout the year.

The Law School, which confers the JD degree, provides instruction of the highest quality in legal theory, process and practice, taking advantage of the urban setting to educate students from the northeastern United States and from across the nation.

The purpose of the College of Liberal Arts and Sciences is to provide a traditional liberal arts education with a professional component, one which is comprehensive and thorough, which prepares students to live enlightened and productive lives and to earn a living. The College offers liberal arts programs in the humanities, the natural and social sciences, including undergraduate career-related and professional tracks in each major, as well as graduate programs in education.

The School of Management offers programs in management and public administration for the public, non-profit, and private sectors that develop ability in problem solving and decision making in an organzied setting.

As a private, urban university accessible to people of varied ages and of all religious, ethnic, and socio-economic backgrounds, Suffolk University serves a metropolitan and, to a growing extent, regional and national clientele. The University provides academic services for people of various levels of preparation and ability, and programs of sufficient depth and academic quality as to challenge the most able.

University Goals In order to respond to the above Mission, Suffolk University has formulated the following specific Goals toward which are directed the efforts of all divisions of the University. Additional statements of Goals appropriate to the various Colleges of the University are published in their respective Bulletins.

- Provide educated men and women for professions such as business, industry, government, law, education, journalism, social work, science, and technology.
- Meet local needs by providing continuing education programs for adults, by serving as a cultural center for the community, by providing trained manpower for employers, and by facilitating student involvement in community service activities.
- Improve the University's ability to serve economically disadvantaged students by improving services in admissions, financial aid, advising, counseling, career planning, and placement.
- Provide the necessary financial and physical resources for program support through improved development and fund-raising.
- Contribute to the solution of some of the social, economic, and political problems facing greater Boston and the state of Massachusetts.

Accreditations Suffolk University is accredited by the New England Association of Schools and Colleges, Inc., the American Chemical Society, the American Bar Association, and the Association of American Law Schools. Specified programs in Education have been approved by the State Department of Eduction for inclusion in the reciprocity privileges of the Interstate Certification Compact. The University Counseling Center is accredited by the International Association of Counseling Centers.

Memberships and Affiliations Suffolk University holds membership in the American Association of Colleges for Teacher Education, American Assembly of Collegiate Schools of Business, College

University Personnel Association, American Council on Education, Association of American Colleges, Association of College Unions — International, Association for Continuing Higher Education, Boston Museum of Science, College Entrance Examination Board, College Scholarship Service, Ocean Research and Education Society, Inc., Massachusetts Bay Marine Studies Consortium, Inc., Massachusetts Marine Educators, Inc., International Association of Counseling Services, Cooperative Education Association, North American Association of Summer Sessions, National Association for Campus Activities, New England Aquarium, United States Association of Evening Students, Association of Independent Colleges and Universities of Massachusetts (AICUM), Association of American Law Schools (AALS), American Bar Association (ABA), Association of Governing Boards (AGB), Boston Athenaeum, WGBH Educational Foundation, American Library Association, Fenway Library Consortium, American Society for Information Science, Special Libraries Association, New England Library Association, and The Communcations Consortium, Inc.

College of Liberal Arts and Sciences

The following goals statements reflect current objectives of the College of Liberal Arts and Sciences.

- To graduate students adequately prepared for the problems of living and of leading productive and rewarding lives.
- To provide the means both for personal growth of students and for the training necessary to enter a business, pursue a profession, or otherwise fill a responsible role in society.
- To provide a learning environment conducive to independent thought and free expression of ideas, where students, faculty, and administrators can work together in mutual trust and respect.
- To ensure that academic programs reflect in content an awareness of student needs.
- To see students as whole persons; to develop character and values as well as competence and skills; to foster a sense of community in the student body.
- To encourage upward mobility of disadvantaged students.
- To provide undergraduate and professional education that liberates the spirit and challenges the intellect.
- To develop educational programs geared to new and emerging career fields.
- To use the resources of Boston and of Washington County, Maine, as campus extensions, and to develop new cooperative relationships with other academic and cultural institutions, recreational centers, commercial enterprises, and governmental agencies in these areas.
- To graduate individuals who have significantly improved their aesthetic, intellectual, and moral capacities, and their sense of self-worth, self-confidence, and civic responsibility.

Admissions

Students may apply for admission to Suffolk University for the Fall, Spring, or Summer sessions and may attend full or part-time.

Freshmen The Admissions Committee judges freshmen applicants based on a successful high school college preparatory program. Consideration is given to the quality of the high school subjects, class rank, recommendation of the high school counselor, the College Board scores, and other pertinent information. It is recomended that all candidates complete the following: 4 units of English, 3 units of Mathematics (Algebra I, Algebra II, Geometry), 2 units of science (at least 1 unit of Lab Science), 2 units of Language, 1 unit of American History, and 4 units distributed among other college preparatory electives.

Suffolk uses rolling admissions, notifying the student of the Admissions Committee's decision soon after the application file is complete. Early decisions are given where there is evidence of three years of highly successful college preparatory study and above-average SAT's (Junior scores).

Transfers Transfer applicants are accepted based on successful work at regionally accredited two-year colleges, four-year colleges, or other institutions of collegiate rank. The last thirty hours in any bachelor's degree program must normally be earned at Suffolk.

Credit shall be allowed for "D" grades if a transfer student attended a regionally accredited institution and if the overall average is 2.0 or better. If the transfer student has attended more than one institution, this policy shall be valid for each respective accredited institution, rather than collectively.

The School of Management will accept direct transfer of credit for lower division (freshman/sophomore) level courses taken at regionally accredited two-year and four-year colleges with appropriate grades providing that such courses correspond directly to lower division courses offered at Suffolk University. Freshman and sophomore courses taken at a two-year or four-year college that are not required at Suffolk until the junior/senior year will not be transferable unless validated. The following validation techniques are recognized by the School of Management:

1. College-Level Subject Examinations administered by the College Board, Princeton, New Jersey.
2. Successful completion of an advanced course in the subject field for which the course in transfer is a foundation. Upon completion of an advanced course, a student must submit a Petition Validation Form to the Office of the Dean, School of Management.

For transfer students in the College of Liberal Arts and Sciences, generally courses are transferable for those courses taken at regionally accredited two-year and four-year colleges with appropriate grades providing that such courses are equivalent to those offered at Suffolk University.

Admissions counselors are available to discuss transfer credit, academic requirements, and problems encountered in the process of transfer. After the student's transfer status has been clarified, however, the student

must confer with a faculty advisor from his or her major department for subsequent academic advice.

Graduate Students Refer to Graduate Section of Bulletin for admission information.

Advanced Placement College credit may be awarded for College Board Advanced Placement Tests taken in high school. Six semester hours are awarded for each test successfully completed.

College Level Examination Placement Tests (CLEP) A maximum of 60 semester hours of credit may be awarded for the results of the CLEP tests. A maximum of thirty semester hours may be awarded for the five tests in the General Examination. The other thirty hours may be awarded for subject tests. The CLEP test is administered by the College Board. The testing program is intended to enable mature and talented individuals who have acquired their education in non-traditional ways (such as TV courses, on-the-job training, and work experience) to demonstrate their achievement and to receive college credit. In order to ensure that the test scores are received in time for graduation, students must take the tests prior to the last semester of their senior year. However, this does not preclude students from taking a CLEP test in lieu of repeating a failed course. Applicants should have their scores sent to the Director of Admissions. Students presently attending Suffolk University should have their CLEP scores sent to the Dean of Students.

Communication Process Selected freshman students will be required to take Writing Skills, Eng. 001 and Communication Process, Eng. 002. These courses have been developed in an effort to help students improve their study and verbal skills so that they will more effectively realize their academic potentials while at Suffolk University. Students who wish to select these courses may do so with the consent of the instructor.

Evening Degree Students Applicants for degree status in the Evening Division are expected to meet the same requirements as day students. An Equivalency Certificate issued by any State Department of Education may be used in lieu of a high school diploma.

Senior Citizens Senior citizens (65 or over) may take tuition-free undergraduate courses at Suffolk on a space-available basis. Applicants should consult the Admissions Office for enrollment procedures. A $20.00 application fee is charged.

Non-Degree Students Non-Degree students may apply credit earned at Suffolk University towards a degree. Non-Degree students are required to submit a non-degree student application. The School of Management admits non-degree students on a space-available basis in the undergraduate and MPA programs. The School of Management does not admit non-degree students in the MBA program.

Students who enter as Non-Degree Undergraduate Students and wish to become degree candidates should complete the regular admissions application in order to be reclassified as matriculating degree status students. Qualified non-degree undergraduate students who wish to apply for degree matriculating status may do so anytime before 30 hours of course work are completed. All non-degree students, excepting senior citizens, must apply for degree-matriculating status when 30 hours of course work are successfully completed.

Office of Continuing Education The College of Liberal Arts and Sciences' Office of Continuing Education extends the College's resources to people who might not otherwise be able to make use of them. Continuing Education programs meet needs for particular schedules and locations, for special credit, CEU (Continuing Education Units), and for courses designed for specific client groups.

Men and women who have delayed or interrupted their education may take day or evening courses either as non-degree students or as degree candidates. While most continuing education students attend evenings, those with family responsibilities or who work nights have the opportunity to attend days on either a part-time or full-time basis. Continuing Education programs maintain the same high standards as all other University programs, and are developed with the participation and approval of the appropriate academic departments. Applicants should consult the Admissions Office for enrollment procedures. A wide range of advisory and supportive services is available to Continuing Education students.

Further information concerning Continuing Education programs can be obtained by contacting Dr. Louis D'Abrosca, Coordinator of the CLAS Office of Continuing Education at (617) 723-4700, Extension 228.

International Students A special information sheet is available for international students. The application deadline for the Fall Semester is March 1. All credentials must be received by April 15. International students applying for the Spring Semester (January) must apply by October 1. All credentials must be received by November 15.

This University is authorized under Federal law to enroll nonimmigrant alien students.

Students may be required to take Eng. 003, English as a Second Language, prior to taking Eng. 101 or 102, if a language deficiency exists as determined through testing by the English Department or the Test of English as a Foreign Language (TOEFL).

Re-Admission to Suffolk Students reentering Suffolk after an absence of one semester or more should request a special reentry form from the Admissions Office.

Notification of Acceptance Applicants are notified of the Admissions Committee's decision as soon as all required credentials are received.

Housing Most Suffolk University students reside in the Boston Metropolitan area and commute to the University. As a result, Suffolk University does not own or operate dormitories. However, to accommodate students from outside the Boston area who require housing facilities, the Office of Student Activities maintains an off-campus housing service that lists available private dormitories, rooms and apartments which can be leased by students.

Students who desire housing assistance are encouraged to contact the Office of Student Activities as early in the application process as possible.

Admissions Information Applications for admission may be obtained by writing to the Admissions Office, 8 Ashburton Place, Boston, Massachusetts 02108. The Admissions Office is open Monday through Friday, 8:45 a.m. to 4:45 p.m.
Telephone: 723-2945.

Finances and Student Aid

Financial Information

Tuition

Tuition charges are based on (1) the number of courses carried and on (2) whether the student is in the undergraduate or graduate program. A full-time course load consists of either four or five courses or 12-17 semester hours of credit per term.

Full-Time Course Load (12-17 Semester hours per term.)

Undergraduate Courses	$4500 per year $2250 per semester
Graduate MPA	$5400 per year $2700 per semester
Graduate MBA	$5580 per year $2790 per semester
Graduate MED	$5100 per year $2550 per semester
Excess Courses	$ 150 per semester hour - undergraduate $ 180 per semester hour - graduate MPA $ 186 per semester hour - graduate MBA $ 170 per semester hour - graduate MED

Part-Time (1 to 3 courses per term — 11 semester hours maximum), Extension and Summer Courses.

Undergraduate	$384 per 3 credit course $128 per semester hour
Graduate — MPA	$540 per 3 credit course $180 per semester hour
Graduate — MBA	$558 per 3 credit course $186 per semester hour
Graduate — MED	$510 per 3 credit course $170 per semester hour
Executive MBA	$718 per 3 credit course
Executive MPA	$685 per 3 credit course

Tuition charges are subject to change by action of the Board of Trustees. Any such change may be made applicable to students already enrolled in the University.

It can be assumed that during your years of attendance, with continued inflation and its effect on the cost of education, tuition will probably rise each year.

Tuition Payment Plans While the tuition and fees for each semester are due at the time of registration, students who find it necessary may arrange to pay on a deferred payment basis under Payment Plan 2. It must be clearly understood, however, that each student who registers is obligated for the tuition charges for the full semester, even though in approved emergencies the student's tuition liability may be reduced as described on page 14.

There are two payment plans available:

Plan 1: *One payment* of all charges (for full semester) at time of registration for each semester. Students carrying only one course must use this plan.

Plan 2: *Two payments* — one half at time of registration; one half in sixty days. *(Limited to students carrying two or more courses.)*

A service charge of $10 per semester is added to the tuition bill under Plan 2.

In the event that the second installment under Plan 2 is not paid on time, a $10 Late Payment Fee is charged.

If a student does not pay tuition or fees as required according to the regulations published in the Bulletin, and in Registration Information, or make satisfactory arrangements for such payment with the Manager of Student Accounts, he or she will be dismissed immediately from the University. Collection agency costs or attorney fees will be added to delinquent accounts if necessary.

No other provision is made for installment payment, whether monthly, quarterly or otherwise, directly with the University. Parents or students who wish to make such arrangements should do so with a bank or other commercial firm that handles such financing.

Students who plan to borrow money from banks or elsewhere for their college costs are urged to submit their applications early enough to meet these payment due dates. Funds not received by these due dates will be assessed a $10 deferred payment charge.

Summer Session Tuition The 1984 Summer Session rate will be:

Undergraduate	$354 per 3 semester hour
MPA	$468 per 3 semester hour
MBA	$483 per 3 semester hour
MED	$444 per semester hour

The 1985 Summer Session rate will be:

Undergraduate	$384 per 3 semester hour
MPA	$540 per 3 semester hour
MBA	$558 per 3 semester hour
MED	$510 per 3 semester hour

All summer session students who take one course will be required to pay their tuition in full, plus fees if any, at the time of registration.

Tuition Liability Students who are obligated to withdraw from the university or drop courses before the end of the fourth week of the fall or spring terms will, on the recommendation of the Dean of Students and approval of the Manager of Student Accounts receive a reduction of their tuition liability according to the following schedules:

Undergraduate and Graduate Programs (excluding Executive MBA)

Withdrawal Notice or Drop Form filed and approved:	**Student is liable for:**
Prior to start of classes	0%
Within two weeks from start of classes	20%
Within three weeks from start of classes	50%
Within four weeks from start of classes	75%
After four weeks from start of classes	100%

Executive MBA/MPA Program

Withdrawal Notice or Drop Form filed and approved:	**Student is liable for:**
Prior to start of classes	0%
Within two weeks from start of classes	50%

All adjustments in the student's tuition liability will be based on the date on which the Withdrawal Form or Drop Form is received by the Registrar's Office. Non-attendance does not constitute official withdrawal. The Summer Session Tuition Liability is published separately.

The tuition deposit of entering full-time students is non-refundable.

Student Expense Budget For 1984-85

Dependent Full-Time Students:

	Undergraduate	*Graduate*
Tuition	$4500	$5100
Fees	45	10
Room and Board	2705	2705
Books/Supplies	350	350
Medical	300	300
Clothing and Personal	700	700
Transportation	500	500
	$9100	$9665

(These estimates are subject to change)

Graduation Fee June Graduates. The graduation fee, including diploma, is $25. This fee is payable whether or not the student attends the graduation ceremony. As there is no formal graduation ceremony in January or September, the graduation fee is $8 (cost of diploma). January and September graduates also are invited to attend the June graduation ceremony and, if attending, must pay the full graduation fee of $25. This fee, together with any other unpaid balance, must be paid when the application for degree is filed.

Fees

Application Fee (non-refundable)	$ 20.00
Tuition Deposit (full-time applicants only, non-refundable)	100.00
Deferred Tuition (service charge for installment payments)	10.00
Late Registration (first two weeks)	25.00
Late Registration (after first two weeks)	50.00
Tuition Surcharge (per semester for each laboratory course designated with an "L" or "F" in the course title)	30.00
Change of Course (charged after second week)	10.00
SCUBA	168.00
Make-up Examination (per Examination) — petition Dean of Students	10.00
Transcripts (first copy free, $1.00 for second copy, and $.50 per additional copy made at the same time)	1.00
Petition for Readmission (students dropped for academic or other reasons)	15.00
Graduation Fee — June graduation and commencement	25.00
January and September graduation	8.00
Student Activities Fee (per semester) —	
Full-time undergraduate	22.50
Full-time graduate	5.00
Part-time undergraduate and graduate (except MBA)	5.00
All MBA	10.00
Robert S. Friedman Field Station	12.00/day, $75/week

Special fees are assessed for courses involving travel, theatre tickets, and similar expenses.

It can be assumed that during four years of attendance, with continued inflation and its effect on the cost of education, tuition will probably rise each year.

Transcript of Record Students may obtain certified transcripts of their college record from the Registrar's Office. There is no charge for the first transcript. A charge of $1 is made for the second copy and for subsequent copies not ordered at the same time. In the event that several transcripts are ordered at one time, a charge of $1 will be made for the second copy and of $.50 each for additional copies. Requests for transcripts should be made in writing at least one week in advance of the date on which a transcript is desired. No transcript will be issued until the transcript fee has been paid. The University reserves the right to refuse to issue a transcript of the record of any student who has not fulfilled all financial obligations due the University.

No transcript requests will be honored during the registration periods. Requests must be made either in person or in writing to the Registrar's Office. No telephone requests will be honored.

Late Registration Fee A fee of $25 is charged to any student who registers during the first two weeks of classes and a $50 fee will be charged after the start of the second week of classes.

Office of Financial Aid

General Information Throughout the history of Suffolk University, it has been general policy to encourage and foster education for students of limited means. Commitment to this goal of keeping higher education affordable is apparent in the University's policy of maintaining tuition costs substantially below those of other private institutions of higher learning in the New England area. Even so, university study represents a significant financial burden for many families. Financial aid programs have been established to help alleviate this burden.

There are four main sources of financial aid: the federal government, the state government, the university, and private sources. Federal programs include grants, low interest loans, and a work-study program. The Commonwealth of Massachusetts awards grants to full-time undergraduate state residents who demonstrate financial need. The university and private agencies/organizations award scholarships and grants to needy students.

Financial awards are made to assist students in financing the cost of education when their personal and family resources are not sufficient. The difference between the total cost of education and the total possible family contribution is expressed as the financial need. In general, higher family incomes require greater contributions to university costs. Particular family circumstances and student summer and/or part-time earnings also have a bearing on financial need. As a member of the College Scholarship Service (CSS), Suffolk University adheres to the principle that the total amount of financial assistance shall not exceed the student's demonstrated financial need.

Any undergraduate or graduate student enrolled in a degree program of at least six semester hours of credit may apply for financial aid consideration. Some awards are limited to students enrolled full-time. A student must also be in good academic standing and must be a citizen or national of the United States. All undergraduate aid applicants are expected to file Pell Grant and state scholarship applications.

Financial aid awards usually are granted for an entire academic year of study, September through May. One-half of the amount of aid granted will be credited to the student's tuition account in the fall semester and one-half in the spring semester. Awards are usually offered as a "package", i.e., some combination of the three kinds of aid (grants, loans, and employment).

Loans

Guaranteed Student Loan Program

The Guaranteed Student Loan Program (GSLP) enables students to borrow from commercial lenders in order to finance their educational expenses. While the majority of these loans are made by banks and other financial institutions, they are guaranteed by a state agency and insured by the federal government.

Academic year limits and total aggregate limits are established as follows:

Category	*Annual Loan Limits*	*Aggregate Loan Limits*
Undergraduate	$2500	$12,500
Graduate	$5000	$25,000

The aggregate amount for graduate students includes loans obtained at the undergraduate level.

Effective with the passage of the Higher Education Amendment Act of 1980, the interest rate ranges from 7 percent to 9 percent. Students whose loans carry an 8 or 9 percent interest rate will be granted a 6 month grace period; that is, loan repayment does not begin until 6 months after graduation, after withdrawal, or after attendance status becomes less than half-time.

Deferment of repayment of principal is allowed during any period in which the borrower is pursuing a full-time course of study and up to three years in which the borrower is a member on active duty in the Armed Forces of the United States or a volunteer under the Peace Corps Act. While the borrower is in school, in grace period, or in deferment status, the interest is paid by the federal government.

Prior to completion of the bank loan application, the student applicant must have on file a Suffolk University Loan application and financial aid transcript(s) from previous institutions.

Parent Loans for Undergraduate Students (PLUS) This federal loan program was established on January 1, 1981 for parents of undergraduate students. The maximum amount a parent may borrow for any one student in any academic year is $3000 at 12 percent interest. The aggregate loan amount for each student is $15,000. Repayment is required to begin within 60 days after disbursement, and there is no in-school federal interest subsidy on these loans.

Parents may obtain application forms at any bank or financial institution that participates in this program. General application procedures are the same as those outlined under the Guaranteed Student Loan Program.

National Direct Student Loan Program (NDSL) The National Direct Student Loan (NDSL) Program is directly administered and awarded by the Office of Financial Aid as part of the Federal Campus-Based Aid Programs. generally an NDSL loan is awarded to a student as part of a total aid package.

The current interest rate for an NDSL loan is 5%.

No interest is charged for these loans until repayment begins. Repayment is required to begin 6 months after a student ceases to be at least a half-time student due to graduation, withdrawal, or less than half-time attendance. Details on repayment schedules are set by the Accounting Office.

These loans are need-based and cannot exceed the following limits: Undergraduate — Combined total of not more tha $3000 during the first two years of study and not more than $6000 during undergraduate career.

Graduate — Combined total of not more than $12,000 for undergraduate and graduate studies.

Cancellation of an NDSL loan is allowed under certain conditions, i.e. teaching of emotionally, economically, and mentally handicapped students; deaths; or permanent disability.

Scholarships/Grants

Pell Grant (formerly Basic Educational Opportunity Grant — BEOG)

This federal grant is designed to assist undergraduate students. The actual amount a student receives depends on the financial information reported on his/her application and 1) full-time or part-time status, 2) length of enrollment during the academic year, and 3) the cost of education. A student applies for this grant by completing the Financial Aid Form (FAF) of the College Scholarship Service and by checking Box 1 in item #45 on

this same form. Four to six weeks after the student submits the application, he/she will receive direct notification from the Pell Grant Program Office. The Student Aid Report (SAR) will indicate whether or not the student qualifies, and will estimate the award amount.

Massachusetts State Scholarship Program Full-time undergraduate students who are legal residents of the Commonwealth of Massachusetts are eligible for Massachusetts State Scholarship consideration. This scholarship is awarded directly to students by the Massachusetts State Scholarship Office. State Grants are $1200.

The application procedure consists of completion of the Financial Aid Form (FAF). The applicant should check the appropriate box on line 44 and complete question #73. Applicants must file the FAF by March 1 of the preceding academic year.

Other Scholarships/Grants

Other major scholarship/grant programs include the Supplemental Educational Opportunity Grant (SEOG), Matching State Grant, and the Trustee Scholarship (Suffolk University).

Suffolk University also offers several other scholarship programs, each with different criteria:

The Nelson G. and Mary G. Burke Scholarship is available to residents of Rhode Island with demonstrated need.

The Agnes Driscoll Scholarship is a need and merit based award available to members of the sophomore, junior and senior classes.

The Thomas Fulham Scholarship, a merit scholarship, is awarded solely on the basis of academic promise and scholastic achievement to entering freshmen.

The Inner City Scholarship was established to assist needy students from Roxbury, Dorchester or South Boston.

The George C. Seybolt Scholarship is a full tuition scholarship available to students with demonstrated need.

The Henry Warren Benevolent Fund was established to assist needy students from the Ashland area.

Further information on these and other scholarship programs can be obtained through the Office of Financial Aid. For information on ROTC remuneration and scholarships, refer to the Military Science section of this bulletin.

Employment

College Work Study Program (CWSP) The College Work Study Program (CWSP) provides student employment opportunities either on the university campus or with various non-profit off-campus organizations/agencies. Some of these job opportunities provide work experience related to the student's educational objective. The earnings from the work position are intended to defray direct and indirect educational expenses.

College Work Study funds are available to undergraduate and graduate students in good academic standing who have demonstrated financial need. Students interested in employment through CWSP are required to submit an application for financial aid.

Confidentiality All information provided to the Office of Financial Aid is regarded as confidential and cannot be released without the expressed written consent of the student applicant.

Location The Office of Financial Aid is located on the 8th floor of the Sawyer Building. The telephone number is 723-2937.

Hours 8:45 a.m. to 4:45 p.m. — Monday through Friday.

General information and questions are handled on a walk-in basis by the Office of Financial Aid staff. Appointments with specific administrators are available on request.

Deadlines MARCH 1 — Application for student financial assistance must be submitted to the Office of Financial Aid. A complete application includes the filing of the Financial Aid Form (FAF) of the College Scholarship Service, Suffolk University Aid Application, and official statements of income (i.e. tax return copy).

NOVEMBER 9 — Spring review and January transfer applications are due.

MARCH 1 — Summer application and other supporting documents are due.

Student Services and Activities

Services

Advising Among the many advantages of Suffolk University is its relatively small size which enables students to maintain their individuality. Within the setting of a major university, each college affords an opportunity for extensive personal contacts, if desired. Faculty and Administration are readily available to students. Administrators and Faculty maintain an "open door" policy. Faculty office hours are posted.

All degree candidates are assigned an academic faculty advisor shortly after matriculation into the College. These advising assignments endure throughout an undergraduate's tenure at the College, barring the declaration of a new major or other significant development.

Supplemental advising at Suffolk University is also available through a wide variety of members of the faculty, administration and staff. Problems discussed may be of academic, financial, vocational, social or of any other nature that concerns the student and may affect present or future progress.

Advising on personal affairs is readily available in the Dean of Students' Office. United Campus Ministry offers its services for religious, marital, and personal counseling. The Career Planning and Placement Office encourages early and continued discussion of occupational plans, options, and opportunities.

Students are encouraged to assume responsibility for their own affairs as much as possible. A significant part of this responsibility involves securing counsel or assistance whenever needed or helpful.

If a faculty advisor approves a student's program, the student is obligated to follow that program unless approval for change is obtained from the advisor.

Archives The University Archives collect materials documenting the history and activities of Suffolk University, including yearbooks, catalogs, newspapers, administrative documents, photographs and other memorabilia. The Archives are located within the Mildred F. Sawyer Library.

Bookstore The Bookstore is located in the lower level of the Archer Building. It has every facility for the rapid handling of text books and other college supplies. The Bookstore is open from 8:00 a.m. to 8:00 p.m., Monday through Thursday, 8:00 a.m. to 6:00 p.m., Friday, and 8:00 a.m. to 12:00 noon, Saturday.

Campus Ministry The Campus Ministry Office is a place where people can drop by for discussion or direction. The Office also provides programs in which contemporary issues and concerns in the public domain are presented from a religious perspective. Campus Ministers are available for liturgical services and counselling to students, faculty, and staff. The Office is located in the Ridgeway Student Center, Room 22.

Career Planning and Placement Center The Career Planning and Placement Center exists to assist students and alumni in developing career plans, in becoming acquainted with the job market, and in developing the strategies and tech-

niques needed to secure successful employment.

Services include full and part-time job listings; on-campus employment interviewing; workshops in resume writing and job interview techniques; individual and group career counseling; and employment information referrals. Services also include information concerning the job market, occupational trends, and wage and salary fluctuations.

Located within the Center is a Career Placement Library which contains descriptive information on hundreds of companies and governmental agencies which hire at the baccalaureate and graduate levels. In addition to this, there are numerous publications concerning the current job market, future employment trends, and salary and wage information. Detailed handout materials on resume writing, job interviewing, how to develop and implement a successful job campaign and a selection of directories of government, business and educational institutions are also housed at the Career Placement Library.

The Career Planning and Placement Center is located in the Sawyer Building. The center is open Monday through Friday from 8:45-4:45 year 'round and provides extended services until 8 p.m. Monday through Thursday during the academic year. Individual appointments with a professional can be scheduled during these hours. Visit the Center or call Extension 480 for more information.

College Library The Mildred F. Sawyer Library occupies the first two floors and two floors below street level of the Frank Sawyer Building at 8 Ashburton Place. It contains a collection of 90,000 volumes, more than 1,300 current periodicals, and 10,000 microfilm reels and 70,000 microfiches together with reader/printers. There are special collections on microfiche of statistical publications, on the history of American business, and of 19th century Americana, as well as The Collection of Afro-American Literature and the Irving Zieman Collection of rare literary editions.

The Sawyer Library contains a wide variety of study seats on all four floors, three rooms for group study, and a browsing area where current newspapers, magazines, and "best seller" books may be found. Also provided are typewriters and coin-operated photocopying machines.

A major strength of the Sawyer Library is its Reference service. The Reference area contains a strong collection of special encyclopedias, directories, indexing and abstracting services, and business services. In addition, there are useful collections of reports, newsletters, publications of major business associations, and information about Massachusetts and Boston. Reference librarians, available during the day, evening, and weekend hours of the library, provide assistance in the use of the library's collections to individual students and classes. They also provide computer access to many national bibliographic data bases and library holdings throughout the country.

Important additional resources are available to students among the many libraries in Boston. The Sawyer Library is a member of the eleven-library Fenway Library Consortium. It provides special information concerning a number of banking, insurance, governmental, business, and association libraries in the downtown area. As well as the Boston Public Library, students are also able to make on-site use of materials in these libraries, in the State Library, the Kirstein Business Branch of the Boston Public Library, and several other academic libraries. The Sawyer Library systematically collects information about these resources, making it the place-to-start for any research assignment.

The library is open during the regular school term from 8:00 a.m. to 11:00 p.m. Mondays through Thursdays, 8:00 a.m. to 9:00 p.m. Fridays, from 10:00 a.m. to 6:00 p.m. on Saturdays, and on Sundays from 1:00 p.m. to 10:00 p.m. The library is closed on holidays, and also on Sundays during the Summer Sessions.

Computer Resources Suffolk University has a large Prime Computer system devoted solely to academic purposes, with more than 75 hard wire terminals distributed around the campus. A PDP-11/23 plus is employed by the Mathematics/Computer Science Department in advanced course work. In addition to a wide variety of statistical packages, available software includes the languages BASIC, C, COBOL, Concurrent Euclid, Edison, FORTRAN, LISP, Modula-2, PASCAL, PL/1, and SNOBOL. A growing complement of microcomputers, graphics equipment and other specialized devices is continually being added to modernize the existing hardware inventory.

Cooperative Education Program

Cooperative Education is an approach to learning that integrates academically relevant work experience with classroom education. Students in the co-op program work full or part-time in a job directly related to their major course of study. The coop experience allows students to make more realistic career choices; learn through the practical application of their academic study; become more competitive in the job market upon graduation and in many instances earn a significant portion of their college tuition.

All full-time College of Liberal Arts and Sciences and School of Management students are eligible for the co-op program if they have completed their freshman year (or one semester for transfer and graduate students) and have earned a grade point average of 2.5 or above. Co-op is an optional, non-credit program and students may choose to enroll in only one or as many as five (5) full-time or nine (9) part-time co-op work terms. Work terms coincide with the school calendar, beginning and ending at the start and finish of each semester — the Fall assignment begins September 1 and ends December 31, the Spring work term begins January 2 and ends mid-May, and the Summer work term begins mid-May and ends August 31. Because co-op students make use of the summer term to either work or attend classes the longest it will take to complete a degree is 4½ years for students who work in full-time co-op placements. Those who enroll in part-time placements work while attending classes and often graduate in four (4) years.

Co-op placements are available with all types of employers: accounting firms, banks, brokers, and retailers; hospitals, universities, government, and social service agencies. The specific placement for which students apply depend upon interest, experience, and ability. There are placements suitable for sophomores with no employment experience as well as for seniors and graduate students about to enter the professions.

The Cooperative Education Office is open during regular university work hours to answer questions or take applications. An orientation session will be held prior to each work term for all interested students.

General Alumni Association

The General Alumni Association has over 10,000 alumni members. The alumni have played an integral part in promoting and maintaining the high standard of education which has been a tradition at Suffolk University.

Governed by directors elected from alumni graduates with an undergraduate degree or a graduate degree from the College of Liberal Arts and Sciences, the Alumni Association sponsors a variety of social, cultural, and educational functions. Currently, the Alumni Association is working closely with the University Career Planning and Placement and other administrative offices to expand job opportunities for graduates.

The Alumni, through the Annual Fund for the College of Liberal Arts and Sciences and School of Management, continues to make contributions to the scholarship program and other unrestricted financial needs of the Colleges.

Health Center The University's Health Service Department has the responsibility for providing emergency and primary care as well as health counseling to members of

the University's administration, faculty, staff, and student body.

Services include: routine medical care and treatment, referrals to appropriate medical facilities, hypertension screening and follow-up, venereal disease evaluation and referral, health education programs including weight maintenance and fitness, and sports physical examination.

These services are provided daily by a part-time medical doctor and two registered nurses.

All accidents or injuries occurring on University property as well as any student contracting or exposed to communicable disease should immediately contact the Health Services. It is located on the first floor of the Fenton Building, Room 104. (Telephone extension 260). Emergencies should be immediately reported to the Campus Police (Telephone extension 111), who will contact the nurse on duty.

Instructional Media Center

The Instructional Media Center provides media services to the University Community. There are two services available for direct student use, the Walk-In Production Center and the Instructional Television Viewing Room. The Walk-In Production Center is located in Sawyer 908. It is a graphic production facility where students can produce overhead transparencies, posters and a variety of other graphic support materials. Equipment use is free of charge; however, there is a small fee for materials. Please call x484 for hours and additional information. The Instructional Television Viewing Room is located in Donahue 215. Students can view ¾″ or ½″ videotapes. There is no charge for this service. Please call x168 for hours.

Inter-Institutional Academic Programs Through affiliation agreements with the Massachusetts Bay Marine Studies Consortium, Suffolk University offers inter-institutional interdisciplinary courses of study.

International Student Advice

The Student Activities Office is prepared to assist international students in official relations with a student's home government and/or the United States government. If further assistance in this area is needed, the International Student Advisor should be contacted. For assistance of an academic or personal nature, the international student should feel free to see any faculty member, the International Student Advisor – Professor Judith Dushku, in Sawyer 1228, one of her assistants, the Dean of Students, or the Student Activities Office.

Learning Resource Center The Learning Resource Center exists to help students become efficient, independent learners. Staff members work with students individually or in small groups in the instruction of academic skills related to success in college.

These academic skills include:

- Text study strategies
- Listening and note-taking
- Critical thinking
- Problem-solving
- Exam preparation
- Time management

Learning Resource Center peer tutors assist students in applying learning and study skills to coursework.

The Learning Resource Center houses an extensive collection of self-study resource materials. These resources for learning study skills and subject area skills can be found in audio/visual programs, print materials, or computer-assisted instruction.

The Learning Resource Center is located in the Archer Building, Room 331, on the corner of Derne and Temple Streets. The Center is open 9:00 a.m. to 4:30 p.m. Monday through Friday, and evenings as posted each semester. The Center is open to all Suffolk University students. For further information stop by the Center or call 723-4700 ext. 235.

Minority Student Support The Assistant to the President and Director of Minority Affairs serves as a counselor, resource person and an advocate for American minority students in the areas of personal problems, adjustment issues, academic advice, and career planning. The Assistant also serves as an advocate with the University for issues of concern to minority students and staff.

The Office of the Assistant to the President and Director of Minority Affairs is located in the Archer Building.

Collection of Afro-American Literature In 1971 Suffolk University and the Museum of Afro-American History established a Collection of Afro-American Literature. In 1981 the newly established Boston African American National Historic Site, under the auspices of the National Park Service, joined the project. The Collection includes poetry, drama, fiction, and nonfiction prose of important black American writers from the eighteenth century to the present in both book and periodical form. It contains related critical, historical, biographical, and bibliographical works by writers of all races. Of special interest is the Collection of Afro-American writers associated with New England. Housed in the University's Sawyer Library, the Collection serves as the nucleus for a permanent center in Boston for students and visitors to study and enjoy Afro-American literature.

New Directions New Directions is a student-run information, peer counseling, and referral center for the Suffolk University community.

Volunteer staff learn basic helping skills to provide a peer counseling resource on campus where students can help students. New Directions' aim is to respond to the needs of any person who contacts the office. The staff emphasizes that the New Directions office is a place to come and talk, as well as to give and receive information and services. The staff is available to discuss, plan, and channel student-initiated ideas within the University.

New Directions maintains a library of materials on subjects ranging from drugs, alcoholism, and birth control to consumer protection, gay resources, and volunteer opportunities in the Boston community. Pamphlets, books, and personal experiences are provided with an honest appraisal of their worth. New Directions enthusiastically provides information about almost everything at Suffolk University.

The office is located in the Ridgeway Student Center, Room 18.

Robert S. Friedman Field Station The Robert S. Friedman Field Station of Suffolk University is located on Cobscook Bay, in Edmunds, Maine, a region noteworthy for its great tidal fluctuations and its abundance of coastal marine life. The laboratory is a 40-acre camping field station accommodating approximately 50 persons in residence. Student, faculty and staff housing is in wooden tents requiring sleeping bags. A central Comfort Station provides shower and lavatory facilities. Meals are prepared by a kitchen staff and are served in a dining facility. Classroom and laboratory facilities support the instructional program, supplemented by a circulating seawater system and collecting boats.

Pre-Law Advising The Pre-Law Advising Committee provides Suffolk University students with access to current information concerning preparation for and admission to law school. Specifically this is accomplished by each academic department in the College of Liberal Arts and Sciences having a faculty member designated as the "Pre-Law Advisor" for that department. A list of the Pre-Law Advisors is regularly published in the student newspapers at the beginning of each academic year.

Tutorial Program in English The English Department offers a peer tutorial program in writing skills, reading skills, and English as a Second Language. Students are self-referred or are referred by the Learning Resource Center or faculty to the

Director of Developmental English. Undergraduate students with superior abilities in English serve as peer tutors.

University Bulletin Boards All students are responsible for information posted on the Official University Bulletin Boards located in the entrances in the Fenton and Sawyer Buildings.

University Counseling Center (Department of Psychological Services) The University Counseling Center exists to help students function more effectively by helping them to define and achieve their personal and academic goals. Counseling Center facilities and programs are offered without charge to full and part-time students, faculty, administration, and alumni. Owing to limited resources, it is not always possible to provide complete support services for special non-degree students. When appropriate, referrals will be made to individuals or agencies outside the University.

Services include the following: (1) individual and group counseling related to personal concerns, academic adjustment and career exploration, (2) administration and interpretation of aptitude, achievement, interest and personality tests to assist students in the process of exploring and defining career goals, (3) maintenance of a career/education library, (4) experiential courses in Interpersonal Relations, Helping Skills, and Career Choices/Life Goals designed to increase awareness of self and others and to develop interpersonal and life planning skills, and (5) individual and group consultations to help improve the learning environment at the University.

Strict confidentiality of records and counseling relationships is maintained at all times. No information concerning any person's counseling relationship shall be shared unless a written release is obtained from that person.

Counseling Center services are available Monday through Friday from 9:00 a.m. to 4:30 p.m., on Wednesday evenings from 4:30 p.m. to 7:00 p.m., and on other evenings by appointment. Appointments can be made in Archer 20 or by telephone (x 226).

Veterans Services The College Registrar's Office functions as a liaison between the Veterans Administration and the University. It certifies and processes both initial and follow-up claims for benefits. It also assists in cases when a veteran who is entitled to benefits has not received them.

Scholastic Honor Societies

Alpha Delta Sigma Honor Society This national honor society recognizes scholastic achievement in marketing and advertising studies. To qualify, students must have completed ninety semester hours, rank in the upper 10% of Marketing majors, have a minimum 3.0 average in marketing courses, have completed or be currently enrolled in a minimum of two marketing courses one of which is in advertising, and be a national member of the American Advertising Federation.

Alpha Kappa Delta Alpha Kappa Delta is the National Honor Society for Sociology majors and Graduate Students who have demonstrated excellence in Sociology.

Its purpose is to promote in each of the various chapters an interest in Sociology, Research in Social Problems and activities leading to Human Welfare. The Suffolk Chapter has been designated Iota of Massachusetts.

Alpha Phi Sigma An affiliate organization of the Academy of Criminal Justice Sciences, Alpha Phi Sigma is the National Honor Society for students majoring in fields related to criminal justice sciences. To

qualify for membership students must have (1) a cumulative grade point average of 3.0, (2) a 3.2 grade point average in criminal justice courses, (3) complete at least one-third of the credit hours required for graduation, and (4) successfully complete at least four courses in the criminal justice field. The Suffolk University chapter of Alpha Phi Sigma is a chapter-at-large.

Alpha Sigma Lambda The purpose of Alpha Sigma Lambda, Chapter Alpha Psi, is the advancement and recognition of scholarship among evening students. Membership is restricted to undergraduates who have completed a minimum of thirty semester hours of evening course work at Suffolk University, which must include at least fifteen semester hours outside the student's major field. Students must have been in attendance at a recognized college or university a minimum of four semesters. Chapter Alpha Psi presently limits membership to juniors and seniors. Members shall be elected only from the highest ten percent of the class in scholarship, provided, however, that the minimum grade point average shall not fall below 3.2

Beta Beta Beta Biological Society The Chi Kappa Chapter at Suffolk University was chartered on October 10, 1978. Beta Beta Beta is an honor and professional society primarily for students of the biological sciences. Its goals include promoting student research, publication and exposure to current biological scholarship and career possibilities. Active membership is offered to majors in the biological sciences who have completed at least one term of the sophomore year (including three biology courses) with a 3.00 average in biology and an overall average of 2.70. Associate membership is open to any interested undergraduate.

Delta Alpha Pi Society At the close of each term the deans and the faculties of the Colleges select high standing junior or senior Day Division students for membership in Delta Alpha Pi. Election is an academic honor and recognizes truly superior achievement by an undergraduate enrolled in any bachelor's degree program. A student may receive this honor, represented by the Delta Alpha Pi key, at the end of the junior year or upon completing the first half of the senior year. Students who have more than one grade of F or I are ineligible for election to Delta Alpha Pi. The minimum academic requirements for election are as follows:

Junior Year (early selection) A student who has completed 84 semester hours of college work, at least 30 of which have been completed at Suffolk University, and who has earned a cumulative honor point average of 3.6 or higher shall be eligible for early selection for the honor society.

Senior Year (final selection) A student who has earned 102 semester hours at the end of a semester, of which at least 45 semester hours have been earned at Suffolk, and who has earned a cumulative honor point average of 3.4 or higher, shall be eligible for final selection. Generally, the faculty requires a higher average for induction in this society.

Delta Mu Delta National Honor Society Delta Mu Delta, The School of Management's Gamma Alpha Chapter, honors undergraduate and graduate students who are engaged in the study of business administration. For undergraduate eligibility a student must have completed 61 credits with a cumulative average of 3.2 or better and be in the top 20% of the class. For graduate eligibility a student must have completed one half of the upper level courses with a cumulative average of 3.25 and be in the top 20% of the class. Induction is held in the spring. Initiation is held in the spring and early fall.

Phi Alpha Theta History Honor Society Phi Alpha Theta, a member of the American Association of College Honor Societies and the recognized honor group in the field of history, maintains its Theta Lambda Chapter at Suffolk. Composed of both faculty and student members, the Theta Lambda Chapter is a flourishing

group with an outstanding record. Student membership is determined: (1) for juniors, by the completion of at least fifteen semester hours of history courses with an average of 3.5, plus a general cumulative average of 3.5; or (2) for seniors, by the completion of at least fifteen semester hours of history, averaging 3.5, plus a general cumulative average of 3.25. Transferred credits cannot be counted in the requirements. Invitations to membership are extended, generally, during the junior and senior years. All inducted members remain permanently on the roster of the Theta Lambda Chapter.

Phi Sigma Tau Honor Society
The Beta Chapter of Phi Sigma Tau Honor Society in Philosophy was chartered at Suffolk on April 26, 1965. Eligibility is open to all students who have achieved junior or senior class status, have successfully completed a minimum of four courses in philosophy averaging 3.3 or better, and have a minimum general cumulative average of 3.0.

Pi Alpha Alpha is the National Honor Society for Public Affairs and Public Administration. Suffolk University, the founding member of Pi Alpha Alpha, has the distinction of being one of ten chapters specifically authorized to admit graduate students. Students in the MPA program who have a minimum grade point average of 3.6, with at least 27 hours of graduate work in the Foundations program (or 18 in other MPA programs) completed at the time of application are eligible for membership. Only the top 20% of a specific graduating class may be admitted to Pi Alpha Alpha.

Pi Gamma Mu Honor Society
Massachusetts Gamma Chapter is the Suffolk Chapter of the National Social Science Honor Society Pi Gamma Mu. To qualify for membership, students must have completed 24 semester hours of social science courses with a minimum average of "B" and no failures in government, economics, sociology, history, philosophy, and social psychology. The maximum number of students who may be admitted in any one year is ten percent of upperclassmen specializing in any of the social sciences. Members are elected for life.

Psi Chi The Suffolk University Chapter of Psi Chi, the national honor society in psychology was chartered on April 28, 1978. Psi Chi is a member of the American Association of College Honor Societies. Criteria for membership include (1) junior or senior class status, (2) academic standing in the upper 35th percentile of class and a minimum 3.0 grade point average, (3) completion of at least five courses in psychology or completion of four courses and current enrollment in a fifth, and (4) attainment of at least a 3.25 grade point average in all courses in psychology.

Sigma Pi Sigma The Suffolk University Chapter of the National Society of Physics Students and the physics honor society, Sigma Pi Sigma, were established in 1979. Election to Sigma Pi Sigma membership is conducted by the active Sigma Pi Sigma members. To be eligible, a student does not have to be a physics major but must rank in the upper 20% of his/her class, have a minimum cumulative grade point average of 3.0 and a physics grade point average of 3.3.

Sigma Xi The purpose of Sigma Xi is to encourage original research by faculty and alumni in science, pure and applied. A Sigma Xi Club is maintained at Suffolk University.

Sigma Zeta Honorary Science Society Alpha Lambda is the Suffolk Chapter of Sigma Zeta, a national honorary science society. The society's aims are to give recognition to students of superior scholarship in the natural sciences and mathematics, to encourage the attainment of a broader knowledge of and to promote interest in these fields, and to stimulate interest in scientific investigation. Active

membership is extended to faculty members in the natural sciences and mathematics and to sophomores, juniors and seniors majoring in one of these fields who meet the grade-point ratio qualifications (i.e., 3.00 in science and mathematics and 2.75 overall).

Who's Who in American Colleges and Universities Students nominated to Who's Who are selected in their senior year on the basis of scholastic and community achievements, scholarship ability, participation and leadership in academic and extra-curricular activities, citizenship and service to Suffolk University, and potential for further achievement. Both day and evening students are eligible for consideration. This honor is conferred by more than 1000 schools in all 50 states and the District of Columbia.

Honors in Biology The Biology Honors Program (Biology H419) provides recognition to a graduating senior Biology major who has demonstrated academic excellence and the potential for contributing to and profiting from a research experience.

Honors in English Juniors and seniors of high scholastic achievement are selected by the English faculty to take part in a special seminar each semester. They receive scholarly training based on intensive readings in literature. On completion of the program the participants are awarded certificates of merit and given a special notation of the accomplishment on their official record.

Honors in Humanities Students are eligible for Honors in Humanities when they have completed at least 21 hours in Humanities courses with an average of at least 3.3. They should maintain an average of 3.0 in other courses, and should make a contribution to extra-curricular activities.

Honors in Modern Language Students who have achieved a 3.0 average in general and at least a 3.3 average in a modern language are eligible for honors if they are enrolled in a course beyond the intermediate level.

Outstanding Student Award Each spring the College of Liberal Arts and Sciences presents an Outstanding Student Award to the individual with the highest cumulative grade point average in his/her respective class. To be eligible for consideration, a student must have accrued the following minimum credit hours while in attendance at Suffolk University:

Class	*Minimum Earned Credit Hours at Suffolk*
Freshman	15
Sophomore	42
Junior	70
Senior	106

A fifth award is presented to the Senior transfer student with the highest cumulative grade point average who has earned not less than 46 credit hours while in attendance at Suffolk University.

Student Activities

Suffolk University has a varied and well-formulated student activities program for undergraduate and graduate, full and part-time students. The student organizations and student governments in conjunction with the Student Activities Office offer many programs, activities and services. The co-curricular program is designed to develop and encourage personal growth in leadership, initiative, cooperation and sportsmanship.

Student Activities Office This office is a resource to student organizations and provides recreational opportunities for students. The Student Activities Office offers services

including: organizational consulting, programming advice, information, budgetary guidance, scheduling coordination, poster and flyer printing, room reservations, a monthly calendar of events, and direct advising for student organizations.

The following organizations are open to all students at Suffolk University. There are many other committees and University programs for those students who want to help shape the future of Suffolk University. For more information, contact the Student Activities Office x320, 321 and consult *The Log* or *After Five*, (Student Handbooks).

Recognized Student Organizations and Athletics Opportunities

Accounting Club
Alpha Phi Omega (National Service Fraternity)
Alpha Sigma Lambda (Evening Division Honor Society)
American Chemical Society
American Marketing Association
Athletics (Varsity) — S.U. sponsors men's and women's intercollegiate teams in basketball, cross-country and tennis; and golf, ice hockey and baseball for men. The University is a member of the National Collegiate Athletic Association, the Eastern Collegiate Athletic Association, the New England College Athletic Conference, and the Massachusetts Association of Intercollegiate Athletics for Women.
Athletics (Intramural) — Intramural sports are offered for both men and women at Suffolk University. Included in the program are basketball, flag football, softball and tennis. A beginners' tennis clinic is offered. Programs in swimming and aerobics are also available. Various health club memberships are available through the Athletic Office.
Beacon Yearbook
Black Students Association
Cheerleaders
Computer Information Systems
Council of Presidents
Delta Sigma Pi (Business Fraternity)
Economics Club
Evening Division Student Association
Finance Club
Gamma Sigma Sigma (National Service Sorority)
Gold Key Honor Society
Hellenic Cultural Club
Hillel
History Society
Humanities Club
International Students Association
Italian American Club
Irish Cultural Club
Literary Society
Modern Language Club
MBA Association
New Directions
Newman Club
Older Than-Average Students
Outdoor Activities Club
Phi Alpha Tau (Communication Arts Fraternity)
Phi Chi Theta (Business Sorority)
Phi Sigma Sigma Sorority (Social)
Pre-Law Association
Political Science Association
Program Board and Council (PBC)
Psychology Club
Public Administration Society
Science Club
Ski Club
Society for the Advancement of Management (SAM)
Student Government Association (SGA)
Society of Physics Students
Sociology Club
Soccer Club
Suffolk Evening Voice
Suffolk Journal
Tau Kappa Epsilon
Track and Field Club
Venture Magazine
Walter M. Burse Debating Society
Women's Program Center
WSUB Closed Circuit Broadcasting (Television)
WSFR (Radio)

Academic Regulations

A complete statement of regulations pertaining to both academic and non-academic student activities is available in *The Log*, and in *After Five*, publications of the Day and Evening Division Student Government Associations.

Registration Registration for students currently attending the University will be conducted by mail. Appropriate notice will be posted and published as to time and procedure.

The Admissions Office will notify newly accepted students as to time and place.

Registration Limits Except in special cases, registration is closed after the first full week in any semester. A late registration fee of twenty-five dollars will be required of students who are authorized to register after one full week of class, and fifty dollars after two full weeks.

Attendance Requirements for attendance are established by the instructors in all courses. Instructors are responsible for informing students of their policies and attitudes regarding attendance, at the beginning of each course. The student, when absent from class, has the responsibility of obtaining knowledge of materials covered in classes missed, especially information about announced tests, papers or other assignments. While absence may adversely affect grades in courses where class participation is a determinant in grading, absence *per se* in other courses will not result in academic penalty.

Change of Address Students are required to notify the Registrar of any change of home or local address of parent or guardian, or change of legal name. When a student's legal name is changed, a certified copy of the relevant documents must be submitted to the Registrar. Changes of address must be submitted to the Registrar within 48 hours of the effective date of the change.

Student Conduct Acceptable conduct is expected of Suffolk University students at all times. It is assumed that students will understand what generally constitutes acceptable conduct. Specific regulations governing all questions of conduct, and other policies and procedures governing student behavior and disciplinary measures are contained in the Suffolk University Code of Justice, and the Joint Statement on Rights and Freedoms of Students. Both the Code and the Joint Statement can be found in *The Log* and in *After Five.*

Smoking Smoking is permitted in the student lounges, in the cafeteria, and in designated areas of the University. No students or faculty members are permitted to smoke in classrooms or in the University Library, due to fire regulations of the Commonwealth of Massachusetts.

Dismissal The University reserves the right to suspend, enforce the withdrawal of, or expel a student whose academic standing or conduct is in its judgement unsatisfactory, or who does not comply with the rules and regulations of the University. Any stu-

dent found guilty of participating in or inciting a riot or an unauthorized or disorderly assembly is subject to appropriate disciplinary action which may include suspension or dismissal.

Final Examinations Final examinations are required in all regular courses unless waived by the department chairperson and the Dean.

Make-Up Examinations Only when incapacitating illness or other emergency makes attendance at a final examination impossible may a make-up examination be requested. The request should be made promptly (within two weeks) through the Dean of Students. Medical certificate or other verification should accompany the request. Authorized make-up examinations must be taken no later than the next succeeding semester. A fee of ten dollars is charged for each make-up examination. A student who has completed a course with a grade of "F" is not eligible for a make-up examination. Students may, however, take the CLEP Test in lieu of repeating a failed course.

Normal Full Program A program of four or five courses is considered a full load for a full-time student in any semester. Permission to take a sixth course may be given only by the Committee on Excess Courses (see below). All full-time undergraduate students are expected to complete at least four courses each semester. Those who fail to do so can only continue with the permission of the dean of the college in which they are enrolled. This policy does not apply to students admitted as continuing education students, non-degree students, or as senior citizens who may carry reduced course loads at their own discretion.

Add/Drop or Change of Course Students who wish to add, drop, or change a course during the first two weeks of a term must obtain the signatures of the instructors of the affected courses. The form must be returned to the Registrar's Office.

Normally, courses may not be added or changed after the second week and, under no circumstances, after the fourth week. Full-time students who wish to add, drop, or change a course after the first two weeks of a term must obtain the permission and signatures of the instructors of the affected courses and the Dean of Students. Part time students need the signatures of the adding course instructor and, in all cases, the Dean of their college.

A $10 fee is charged for each course change after the first two weeks of a term. (See page 14 for tuition liability information.)

Excess Courses Any course, in addition to the normal five courses, is an excess course. For compelling reasons, such as the need to make up a condition or a failed course, a student may be given special permission to register for a sixth course if the student has been in attendance at Suffolk University two full semesters or more, provided that the cumulative honor point average is 2.5 or better at the time of the petition. Application for the additional course should be made at the Registrar's Office at the time the student is planning a program in advance of Registration Day. Students in their first two full semesters, excluding summer sessions, are limited to five courses.

In all other cases, permission to take an additional course must be obtained in advance from the Committee on Excess Courses. Petition forms are available in the Registrar's Office and Office of the Dean. A student may not receive credit for more than six courses in any one semester.

Summer Session students whose average is below 2.5 are ordinarily limited to a program of not more than two courses in each term, but may petition the Committee on Excess Courses for permission to take a third course. Students whose average is 2.5 or better may carry three courses in each term.

Directed Study Undergraduate Directed Studies, 5 level courses, are available to Seniors in good academic standing (Juniors with strong records may also be eligible)

only when a student's program merits the course, and it has the approval of the student's instructor, advisor and department chairperson and dean. Normally not more than two directed study courses may be attempted and these must be limited to a student's major field of study.

Graduate Directed Studies, 900 level courses, are available to graduate students as well. All particulars of these courses must be negotiated with the department chairperson of a student's major area of concentration.

Credits Earned at Other Summer Sessions Suffolk University students who wish to accelerate their programs by taking summer courses, with the exception of graduate students in the School of Management, *will be expected to take them at Suffolk University.* Students who commute more than forty miles, however, may be granted permission to attend another college, but must obtain written permission to do so *in advance* from the Dean of Students in order to ensure acceptance of their credits. The number of transfer credits will be limited to one credit for each week of summer session attendance. Credit will be withheld unless the course work is completed with a grade of "C" or better, where "D" is the lowest passing grade. Credits earned at summer sessions in other institutions may not be counted as part of the work of the senior year (last 30 semester hours) in any Suffolk University degree program except in extremely unusual and rare instances. Students who transfer more than 62 semester hours may not take courses for credit at other institutions. Courses taken in affiliated programs at Emerson College are an exception to this policy.

Study Abroad The Committee on Study Abroad oversees several programs that make study outside the United States available to students in the College of Liberal Arts and Sciences. Students who plan to receive semester-hour credit for study abroad (whether at a foreign academic institution, in a U.S.- or foreign-based study-abroad program, or in a Suffolk University field course) must have their arrangements for foreign study and for application of academic credit earned abroad to Suffolk University programs approved *in advance* by the Dean of Students and by the Committee on Study Abroad. These programs include:

InterFuture (Intercultural Studies for the Future): A junior-year-abroad program. Students eligible to apply are sophomores in the top 10% of their class and (occasionally) outstanding freshmen. InterFuture Scholars undertake an intensive experience in intercultural study. During the eight-month preparatory period, the student prepares an intercultural independent study project with the help of a faculty advisor on campus and a series of InterFuture conferences. The participant carries out his/her research at home and then abroad — in, if possible, both a North Atlantic and a Third World nation. Overseas for three to seven months, an InterFuture Scholar becomes as immersed as possible in the host culture(s) — studying in each country under a local expert and living with local families and students. The research papers prepared by InterFuture participants are submitted to their home institutions for fifteen semester hours of ungraded academic credit. Information concerning the exact terms of participation and availability of positions as InterFuture Scholars is available from the chairperson of the Committee on Study Abroad.

Project SAFARI (Study at Foreign Academically Recognized Institutions): A loan program for summer study abroad. Any full-time student in good standing at Suffolk is eligible to apply for an interest-free SAFARI loan to assist in meeting the costs of summer study at a foreign academic institution. SAFARI loans are awarded on the basis of: 1) a project description, justifying the need for foreign study; 2) approval by the appropriate department chairperson; and 3) the student's previous demonstration of satisfactory achievement in the general area of the project. Additional details on application procedure and financial arrangements are available from the chairperson of the Committee on Study Abroad.

Field Courses Abroad: During certain Summer Sessions, the English Department and the History Department offer College of Liberal Arts and Sciences field courses (for graded semester-hour credit) in England and Ireland. Information about upcoming field courses is available from the chairperson of the English Department, the chairperson of the History Department, and the chairperson of the Committee on Study Abroad.

Fulbright Scholarships for Graduate Study Abroad: A highly selective and highly competitive federal government program that provides support for one year (and occasionally more) of graduate study abroad. Students eligible to apply are seniors in their final year of undergraduate study. Applicants must have outstanding academic records and the strong personal endorsement of their major professors. Information concerning the terms and availability of the awards is available from the chairperson of the Committee on Study Abroad.

Course Numbering System Course numbers are read as follows:

Undergraduate
- 000-099 Development Programs (see advisor)
- 100-199 Introductory Level
- 200-299 Intermediate Level (prerequisite may be required)
- 300-499 Intermediate and Advanced Level (prerequisite may be required)
- 500-599 May be taken by both Undergraduate and Graduates (faculty permission required)

Graduate
- 600-699 Developmental Programs (see advisor)
- 700-899 General Course
- 900-999 Advanced Level (faculty permission required)

Course numbers ending in "0" are given without credit. Course numbers ending in a one or a two are parts of a two-semester sequence, with part one normally completed before part two is undertaken. Letter prefixes indicate: (F) extra fee assessed, (L) lab fee assessed, (X) no lab fee assessed, and (H) honors course.

Reports Grade reports will be issued to each student soon after the close of each semester.

The Grading System Effective as of the Fall Semester of 1980, the following grading system applies to all undergraduate students.

Letter Grade	*Honor Point Equivalent*
A	4.0
A–	3.7
B+	3.3
B	3.0
B–	2.7
C+	2.3
C	2.0
C–	1.7
D+	1.3
D	1.0
D–	0.7
F	0.0
I	Does not affect honor point average
W	Does not affect honor point average
P	Does not affect honor point average
L	Does not affect honor point average

"A", "A–", "B+", "B", and "B–" are honor grades.

"C+", "C" and "C–" represent satisfactory work.

"D+", "D" and "D–" represent passing but unsatisfactory work.

"F" is a failing grade. It indicates (a) that more than half of the course requirements are complete but unsatisfactory by the end of the semester or, (b) that the student dropped the course or withdrew from the University without valid cause after the mid-point of the course (in terms of weeks of class). Students who merely stop attending a course without having completed the official forms should expect to receive a grade of "F".

"I" (Incomplete) indicates that at least half of the course requirements have been completed with a passing average ("D" or better) at the end of the semester. Incomplete work may be made up not later than the end of the next semester following that in which the course was taken, with the exception that "I" grades in laboratory courses must be made up the next time the laboratory is offered.

"L" (Lost) is awarded when a student's

name appears on a roster, but that student fails to appear in class or disappears prior to the last day for course changes without complying with the official withdrawal procedure.

"W" signifies official withdrawal from a course. It is assigned administratively, (a) if a student voluntarily drops the course or withdraws from the University prior to the start of the mid-point of the course, in terms of weeks of class, or, (b) if the student drops the course or officially withdraws from the University for *valid and serious cause* after the mid-point of the course.

Valid cause includes serious illness, job transfer, problems involving family responsibilities, and similar circumstances beyond the students' control.

The validity of such declarations for cause will be determined by the Dean of Students' Office. Any reasons for cause must be documented, certified, and submitted with the completed petition.

Courses officially dropped during the add-drop period will not appear on the student's record.

An excessive number of "W's," "I's" and "L's" can lead to academic probation or dismissal.

For information concerning tuition liability, see p. 14.

Honor Point System 4.0 Honor Points will be granted for each semester hour of A grade work, 3.7 Honor Points for A- work, 3.3 for B- work, 3.0 for B work, 2.7 for B- work, 2.3 for C+ work, 2.0 for C work, 1.7 for C- work, 1.3 for D+ work, 1.0 for D work, 0.7 for D- work, and 0.0 for F work. Grades of I, W, P, and L are not computed in determining honor points. In a 3 semester hour course a grade of A will count as 12 Honor Points (3×4.0 Honor Points = 12 Honor Points). A minimum average of 2.0 (C) is required for graduation. In some departments, a higher average is required in the major.

Scholastic averages are computed by dividing the number of honor points earned by the number of semester hours attempted.

Pass-Fail Courses A Pass-Fail Option is available to students in lieu of letter grades subject to the following limitations and regulations:

Eligibility is restricted to Juniors and Seniors in good academic standing and to those Junior and Senior transfer students who have completed a minimum of 15 semester hours of course work at Suffolk University. This option is limited to four three-semester hour courses per student. An exception may be made for Psychological Services 503 — Interpersonal Relations, which can be taken by any student as a Pass-Fail course with the consent of the instructor.

Pass-Fail courses may not be taken in a student's major and may not be used to fulfill general college requirements or the related courses required as part of the student's area of concentration (major).

Students will designate courses as Pass-Fail on their registration forms at the time of registration. No changes from this designation to the letter grade system or vice-versa are permitted after the course change period has elapsed at the opening of any semester or summer session.

At the end of the semester, instructors will submit letter grades for all students except for those who have chosen to take the course on a Pass-Fail basis. The instructor and the Registrar will transcribe a Pass as P and a Fail as F for those who elected this option.

A Pass received on this basis may be applied toward fulfilling degree credits, but may not be applied toward the quality point average.

Students planning to attend Law School or other Graduate Schools should be aware that many Professional and Graduate Schools do not look with favor upon the Pass-Fail system and prefer students to submit traditional letter grades.

Classification of Students

Classification of students depends upon the number of semester hours earned prior to the first semester of the current year. Freshman standing is assigned to all those having less than twenty-five semester hours;

Sophomore standing, less than fifty-five semester hours; Junior standing, less than eighty-five semester hours; Senior standing, at least eighty-five semester hours.

Academic Standing

	Subject to Probation	*Subject to Dismissal*
End of Freshman Year (Less than 25 credits earned)	Average of 1.50-1.79	Average less than 1.50
End of Sophomore Year (Less than 55 credits earned)	Average of 1.60-1.89	Average less than 1.60
End of Junior Year (Less than 85 credits earned)	Average of 1.80-1.99	Average less than 1.80
Mid-Senior Year (More than 100 credits earned)	Average of 1.85-1.99	Average less than 1.85
End of Senior Year (At least 122 credits earned)	2.0 or better average for graduation	

Academic Probation No student on academic probation shall be eligible to compete in athletics, hold elective or appointed offices, or represent the University in extracurricular or intercollegiate activities. However, a student on academic probation may continue membership in extracurricular activities such as clubs or fraternities, and may write for, but not be a member of the staff of campus publications. In the event one's average does not improve, the Dean of the College or the Academic Standing Committee may require a limitation of extracurricular activities as a condition for continuation at Suffolk University.

Any student who receives 3 or more grades of W, I, or L in any academic year shall be subject to review by the Academic Standing Committee.

Academic Suspension and Dismissal A student who has been placed on probation will generally be given until the following semester's final grading period to establish an acceptable honor point average or demonstrate a significant improvement in academic performance. Failing to achieve the satisfactory average, the student becomes subject to suspension or dismissal from the University after review by the Academic Standing Committee. At the end of each fall and spring semester Freshmen with an average of less than 1.5, Sophomores with an average of less than 1.6, Juniors and transfer students with an average of less than 1.8, and Seniors with an average of less than 1.85 are in imminent danger of academic dismissal.

Furthermore, a student may be dismissed at any time during the school year if, in the opinion of the Academic Standing Committee, s/he fails to maintain a satisfactory scholastic record.

All day-students who are required by the University to enroll in or complete English 001, English 002, English 003, or English 303 and do not do so may be dismissed from the University.

Petition for Re-admission A student who has been dismissed for academic deficiency may, as a matter of right, file a petition for re-admission with the Academic Standing Committee. This typewritten petition should contain a brief explanation of the cause of past academic difficulties encountered and some indication of the corrective action that has been taken to prevent a recurrence of the scholastic problem.

Petitions should include a transcript of all interim college-level work attempted outside Suffolk University, if applicable, and a processing fee of $15 in the form of a check or money order made payable to Suffolk University. The filing deadline to petition for re-admission is 30 days prior to the beginning of classes in the semester of reentry for the School of Management, and 15 days prior to the beginning of classes for the College of Liberal Arts and Sciences.

Fresh Start Program The Academic Standing Committee may at its discretion grant grade amnesty to individuals who seek readmission to the College of Liberal Arts and Sciences after a prolonged absence from the University.

Students re-entering under this policy must successfully complete a minimum of 30 credit hours of new work at the University to be eligible for graduation. Honor points and grade point average will be computed solely from this work. Transcripts, however,

will list all course work attempted at Suffolk University, with the grades earned, and will be accompanied by an explanation of the Fresh Start Policy.

Eligibility is determined during the re-admission process.

Suspension, Enforced Withdrawal, and Expulsion A student who has been found to have violated the rules of academic probation after a hearing by the Dean of Students or by the Joint Committee on Student Conduct, which hearing has been held at the option of the student, is subject to suspension, enforced withdrawal, or expulsion from the University or appropriate lesser penalties if warranted by the circumstances.

Cheating and Plagiarism Suffolk University insists upon the highest standards of academic integrity in all student work, both written and oral. Penalties for cheating and plagiarism are severe, including possible suspension or expulsion. A full discussion of the responsibilities of students in this matter can be found in the student *Log* and in *After 5.*

Eligibility for Degree In order to be eligible to receive a bachelor's degree from the University, a student must have at least (1) two-honor points for each semester hour of credit earned in courses at the University and (2) a C average (2.0) in the major courses. The last thirty hours in any bachelor's degree program must be earned at Suffolk University. Eight years is the normal limit for completion of part-time or interrupted degree programs.

Transfer students must earn at least a 2.0 honor point average in courses completed at Suffolk University.

Candidates for an Associate Degree will be required to earn a proportion of honor points comparable to the number required for Bachelor's degree candidates.

Application for Degree Students must submit an Application for Degree to the Accounting Office at the *BEGINNING* of the student's final semester. However, students who take courses in the second evening Summer Session are not eligible for September graduation, but may graduate the following January or June. Upon filing this application, the student is required to pay the graduation fee. The Registrar will not accept any forms for processing until clearance has been granted by the Accounting Office. Failure to comply with this requirement will delay graduation until the end of the following term.

Withdrawal from College If it becomes necessary for a student to withdraw from college, he or she is expected to complete an official withdrawal form obtainable in the Dean of Student's Office and have an exit interview with the Dean of Students. When circumstances prevent this, the student or parents should write to the Dean of Students concerning the reason that requires withdrawal from college.

Auditing Students may audit a course for zero credits and receive no honor points; however, they must pay the same tuition as if taking the course for credit. It is the student's responsibility to inform the instructor that he/she is auditing the course during the first two weeks of classes. Under no circumstances may a student change from credit to audit or vice-versa after the first two weeks of classes. Any course which is audited will appear on the student's transcript with a grade of AU.

Scholastic Honors

Dean's High Honors List A student shall be eligible for the Dean's High Honor List in any semester in which his or her grade-point average is at least 3.70 and provided he or she receives no grade of D, F, or I, and has earned a minimum of 12 semester hour credits.

Dean's Honors List A student shall be eligible for the Dean's Honor List in any semester in which his or her grade-point average is between 3.30 and 3.699 inclusive and provided he or she receives no grade of D, F, or I, and has earned a minimum of 12 semester hour credits.

Recognition Day Students who have excelled in a single academic field, or who otherwise have earned distinction through meaningful campus activities, are formally recognized in ceremonies held at the end of each Spring semester. Recognition Day is one of the oldest of traditions observed at Suffolk University. Its purpose is to respond to excellence wherever it is found in the broad spectrum of undergraduate life. Criteria for selection are diverse, according to the nature of the award. Further information is available in the Student Activities Office, and in the Scholastic Honors Section of this Bulletin, pp. 25-28.

Graduation with Honors

1. To be eligible for graduation with honors, a student must have completed at least 60 semester hours of work at Suffolk University. (Courses for which a student receives credit through CLEP examinations may not be counted toward this minimum of 60 semester hours, but courses taken at Emerson College through cross-registration in affiliated programs with Emerson College may be counted toward the minimum of 60 semester hours.)

2. To be eligible to graduate *summa cum laude* a student must, in addition to requirement 1 above, have a cumulative grade point average placing him/her in the top two percent of those members of the graduating class who meet criterion 1, must have a cumulative grade point average of at least 3.85, and must have no grades of F or I.

3. To be eligible to graduate *magna cum laude* a student must, in addition to requirement 1 above, have a cumulative grade point average placing him/her in the next six percent of those members of the graduating class who meet criterion 1, must have a cumulative grade point average of at least 3.7, and must have no grades of F or I.

4. To be eligible to graduate *cum laude* a student must, in addition to requirement 1 above, have a cumulative grade point average placing him/her in the next twelve percent of those members of the graduating class who meet criterion 1, must have a cumulative grade point average of at least 3.3, and must have no more than one grade of F or I.

5. An Honors Graduation Committee appointed and chaired by the Dean of the College, will examine the percentage distribution of students with honor point averages in order to minimize inequities. This committee would be guided by written criteria approved by the faculty but have the right to exercise judgement in unusual cases.

Degree Programs

The College of Liberal Arts and Sciences offers the following undergraduate degrees:
Bachelor of Arts (B.A.)
Bachelor of Science (B.S.)
Bachelor of Science in Journalism (B.S.J.)
Bachelor of Science in General Studies (B.S.G.S.)
Associate in Arts (A.A.)
Associate in Sciences (A.S.)

Each academic department shall specify whether students majoring in that department shall meet the requirements of the B.A. degree, the B.S. degree, or have a choice of the B.A. or B.S. degree. All degree programs provide a broad liberal arts background and specialization within a single major field.

A minimum of 122 semester hours is required for the bachelor's degrees and 62 for the associate's. Day students normally complete their degree requirements in four years unless they attend the Summer Sessions to accelerate their programs. Evening students normally complete their degree requirements in from five to eight years. Most major programs specify 30 semester hours of course work in the major department, and some specify additional Complementary Major Requirements outside the

major department. Major programs are offered in the following fields:

Humanities Division

Communications and Speech
- Argumentation
- Forensics
- Mass Communication
- Oral Interpretation
- Communications Disorders
- Organizational Communication
- Rhetorical Criticism

Dramatic Arts*
English*
Fine Arts*
French*
Humanities*
Journalism
- Journalism & English
- Bilingual Communication*
- Mass Communication*
- Public Relations
- Film Communication*
- Marketing Communication
- Print Communication
- Science Communication*
- Technical Communication

Philosophy
Spanish*

Natural Sciences Division

Airway Science
- Airway Computer Science*
- Airway Electronics Systems*
- Human Factors in Aviation*

Biology*
- Biology*
- Life Studies*
- Environmental Technology*
- Marine Science*
- Medical Technology*
- Biology-Computer Science*
- Cytotechnology*
- Biology/Secondary Education*

Chemistry
- Chemistry
- Chemistry-Business
- Biochemistry*
- Chemistry-Computer Science*
- Chemistry/Secondary Education*

Computer Science*
Mathematics*
- Mathematics*
- Mathematics/Secondary Education*
- Mathematics/Computer Science/ Secondary Education*

Physics*
- Physics*
- Physics-Computer Science*
- Physics/Secondary Education*
- Computer Engineering Technology*
- Electronic Engineering Technology*

Social Sciences Division

Economics*
- Econometrics*
- Managerial Economics*
- Economic Policy*

Education*
- Elementary Education*
- Business Education*

Government
- Government
- Public Policy and Administration

History*
- American History*
- European History*
- Third World History*
- Women's History*
- Pre-Law*
- History and Literature*
- History and Science*

International Economics*
Psychology
- Mental Health*
- Comprehensive*
- Industrial/Organizational*
- Human Development*
- Psychology-Computer Science*
- Evening Students' Major

Sociology
- Crime, Law and Deviance
- General Sociology
- Health Services
- Social Work*
- Sociology-Spanish*

Special Concentrations

*Indicates that a full major is not available in the Evening Division.

Students normally select their major at the beginning of their sophomore year. Specialized, career-oriented major programs in certain fields may require an earlier beginning. In all instances students must receive the approval of their faculty advisor before they begin a major program.

Double majors shall be permitted, provided: 1) The two majors are in two different departments in the College of Liberal Arts and Sciences. (The departments of Humanities/Modern Languages and of Computer Science/Mathematics are joint departments and should, for purposes of interpreting this requirement, each be considered to be two separate departments.); 2) The student has completed the major requirements and the complementary major requirements for each of his/her major fields; and 3) The individual who plans a double major must have a B+ (3.3) or better average and, after his/her freshman year, must consult with the CLAS Double Majors Coordinator — who, in cooperation with advisors from each of the two proposed major departments, will advise the double major candidate concerning the academic validity and utility of his/her proposed double major and help the double major candidate to plan, coordinate, and implement a program which interrelates (where possible) the two proposed major disciplines. For double major candidates, courses taken as complementary major requirements in one major department may be used to satisfy major requirements in the second major department.

Any department within the College of Liberal Arts and Sciences may establish a formal minor program of 18 semester hours of course work, plus laboratory work associated with that course work, within that department (no more than 6-8 semester hours of which may consist of courses below the 200 level). A department's minor program shall be available to any student not majoring in that department. (The departments of Humanities/Modern Languages and of Computer Science/Mathematics should each be considered to be two separate departments.) A minor program is optional for any student, and is not required for graduation. A student should consult as early as posible with his/her advisor, and with a member of the deaprtment in which he or she intends to minor, regarding minor requirements.

Any department within the College of Liberal Arts and Sciences may also establish for its majors "complementary major requirements," to be taken outside that department. (Again, the departments of Humanities/Modern Languages and of Computer Science/Mathematics should each be considered to be two separate departments.) These complementary major requirements are required for graduation of any student majoring in the department by which they have been established, whether or not that student has elected to take a minor program. If a student takes a course which is specified both as a complementary major requirement for his/her major department and as a minor requirement by the department in which he/she has chosen to minor, that course may be used to satisfy both requirements.

Academic Degrees

Biology: B.A. and B.S.

Chemistry: B.A. and B.S.

Communications and Speech: B.A. and B.S.

Computer Science: B.A. and B.S.

Economics: B.A. and B.S.

Education: B.A. and B.S. in Elementary Education; B.S. only in Business Education

English: B.A. only

French: B.A. only (except B.S. in directly career-oriented Bilingual Journalism program)

Government: B.A. and B.S.

History: B.A. and B.S.

Humanities: B.A. only

Journalism: B.S. in Journalism, B.A.

Mathematics: B.A. and B.S.

Philosophy: B.A. and B.S.

Physics: B.A. and B.S.

Psychology: B.A. and B.S.

Sociology: B.A. and B.S.

Spanish: B.A. only (except B.S. in directly career-oriented programs — Bilingual Journalism and CROSS)

Degree Requirements

Within the semester-hour requirements for bachelor's and associate's degrees mentioned

above, certain courses and options must be taken as requisites to the degrees. These requirements are in two categories:

College Requirements, which provide the basic knowledge and skills necessary for successful academic work at higher levels; and the breadth of knowledge in many fields that is fundamental to liberal education.

Major Requirements, which provide the specialized knowledge, training and experience necessary in preparing for a career or vocation.

Courses that are taken as part of a student's Major or Complementary Major Requirements, which are also listed under the College Requirements, below, can be used to satisfy both Major *and* College Requirements. These courses count only once toward the 122 hour requirement for bachelor's degrees and the 62 hour requirement for associate's degrees.

Individual exemptions from College Requirements, based on examination and recommendation of the appropriate departments, may be granted by the Dean. Semester-hour credit is not granted for such exemptions. Certain limited exemptions from College Requirements may also be granted by the Dean, without credit, in order to accommodate the needs of Major programs with unusually heavy requirements.

B.A. and B.S. Degrees
College Requirements.

All B.A. and B.S. degree programs require successful completion of the following courses. Candidates for associates's degrees, and transfer students who have more than 30 semester hours of college credit, see appropriate sections below.

Each course is a single semester in length and carries three semester hours of credit. Laboratory courses carry one hour of credit.

Freshman Integrated Studies sequence (IS 111-112) 6 hours

First-year English sequence (see section on Designated Courses, item A, p. 41) 6 hours

Second-year English sequence (item B, p. 41) 6 hours

Logic/Speech sequence (item C, p. 41) 6 hours

Introductory Mathematics sequence (item D, p. 41) 6 hours

Foreign Language sequence, for B.A. Major programs only (item E, p. 41) 6 hours

Humanities Option, for B.S. Major programs only (items F-J, pp. 41-42) 6 hours

Option Requirements in each of the three academic divisions, as follows:

Humanities Option: one course from the list of Designated Courses in English, Modern Languages, Humanities or Philosophy (items F-J, pp. 41-42). May not be from the same Department whose courses are selected to fulfill the B.S. and A.S. Humanities Option of 6 hours, listed above. 3 hours

Natural Sciences Option: a two-semester sequence of courses, with labs, in one Department from the list of Designated Courses in Biology, Chemistry, or Physics (items K-N, p. 42) 8 hours

Social Sciences Option:

For B.A. major programs, three courses, which must include one from each of the following groups as listed in Designated Courses (items O-T, pp. 42-43)

Education, Psychology, or Sociology	3 hours
Economics or Government	3 hours
History	3 hours
	9 hours

For B.S. major programs, three courses, which must include one from each of the following groups as listed in Designated Courses (items O-T, pp. 42-43)

Education, Psychology, or Sociology	3 or 6 hours
Economics, Government or History	3 or 6 hours
	9 hours

Major Requirements:

Refer to the specific requirements listed in the Departmental sections of this Bulletin, which are arranged alphabetically beginning on p. 56 30 hours

Minor and/or Complementary Major Requirements

Free Electives to round out a program of study to 122 hours.

122 hours

Designated Courses

B.A. and B.S. major programs

College Requirements.

A. *First-Year English:* Entering students normally take English 101-102 (Freshman English I, II). Students notified by the English Department are required to take English 001 and English 002 (concurrently), or English 003; they must then take English 101-102 or English 102 only, depending on individual proficiency. Upon the English Department's invitation, entering students with an unusually high proficiency in English may be exempted from English 101 and enroll in English 103 (Advanced Freshman English), to be followed by English 102.

B. *Second-Year English:* English 213 (Literary Masters of England I) is required of all students, and either English 214 (Literary Masters of England II) or English 215 (Literary Masters of America) is required of all students. The two courses may be taken in either order.

C. *Logic/Speech:* Students are required, during their sophomore year, to take a Logic/Speech sequence consisting of Communications and Speech 103 (Rhetorical Communication) and Philosophy 113 (Informal Logic), taken in either order.

D. *Introductory Math:*

Math 111 (Finite Mathematics I)
No prerequisite

Math 112 (Finite Mathematics II)
Math 111 recommended

Math 143 (Precalculus Mathematics)
Substantial preparation in high school algebra

Math 161 (Calculus I)
Solid background in high school algebra and trigonometry

Math 162 (Calculus II)
Math 161 required

Any two of the above courses will satisfy the Introductory Mathematics requirement. It is expected that most students will take Math 111 and 112.

E. *Foreign Language* (B.A. degree only): A two-semester sequence of French, German or Spanish taken at any level. Student competence to take courses at any level will be determined by the Department of Humanities and Modern Languages.

Option Requirements.

Humanities Division

F. *English:* English 113, 114 (Masters of the Drama I, II), English 123, 124 (Great Books of World Literature I, II). Majors in Dramatic Arts must take 113 and 114 in either order. Students taking only three semester hours of their Humanities Option in English may choose any of the four English courses listed above. Students taking six semester hours of their Humanities Option in English must take two of the four courses, in any order, one of the two being 113 or 123, and the other being 114 or 124.

G. *French:* French 209 and 210 (Contemporary French Civilization I, II), French 211, 212 (The French-Speaking World I, II), French 311, 312 (Masterworks of French Literature I, II — French version only), in any order or sequence.

H. *Humanities:* Humanities 101, 102 (Introduction to the Humanities I, II), Humanities 103-104 (History of the Visual Arts I, II), Humanities 121, 122 (History of Music I, II). Students taking only one course in Humanities to satisfy the All-College Humanities Option group requirement may take any Humanities Designated Course except 104. Students taking two courses in Humanities to satisfy the All-College Humanities Option Group requirement must take 101-102 or 103-104 or 121-122. 101 and 102 may be taken in any order, as may 121 and 122; but 103 must be taken before 104.

I. *Philosophy:* Philosophy 115, 116 (Introduction to Philosophy I, II), Philosophy 117, 118 (History of Philosophy I, II), Philosophy 123 (Ethics), Philosophy 124 (Oriental Philosophy). Students taking only three semester hours in Philosophy to satisfy the Humanities Option requirement may take any one of the six Designated Courses. Students taking six semester hours in Philosophy must take 115 or 117; any one of the other four Designated Courses (116, 118, 123, 124) may be taken as the other course.

J. *Spanish:* Spanish 207, 208 (Hispanic Culture I, II), Spanish 403 (Masterpieces of the Spanish Theater), Spanish 404 (Modern Hispanic Literature), in any order or sequence.

Natural Sciences Division

K *Biology:* Biology 101, L101 and 102, L102 or 103, L103 or Science 253 (Principles of Biology I and II or Basic Anatomy & Physiology and laboratories or Introduction to Marine Studies); Biology 113, L113 (Botany and lab), Biology 114, L114 (Zoology and lab). Biology 101, L101 is a prerequisite for Biology 102, L102, 103, L103 and Science 253.

L. *Chemistry:* Chemistry 111, L111; 112, L112 (General Chemistry I and II, and General Chemistry Laboratory I and II).*
*Chemistry 111 and 112 are intended primarily for science majors. High school chemistry is a prerequisite for Chemistry 111 and 112. Chemistry 111 is a prerequisite to Chemistry 112.

M. *Physics:* Physics 111,L111, 112, L112 (College Physics I, II, and labs) OR Physics 151, L151, 152, L152 (University Physics I, II, and labs)*; Science 101, L101, 102, L102 (Physical Science I, II, and labs).
*Physics 111-112 (non-calculus) and Physics 151-152 (with calculus) are different mathematical treatments of introductory physics. A student is not allowed to take both.

The courses above are two-semester sequence pairs; a student may not satisfy the Natural Science Option requirement by taking two odd-numbered courses from the above list. Within each sequence, courses must be taken in the order shown. For non-science majors, the following substitutions may be made:

Physics 112, L112 may replace:
Physics 152, L152
Science 102, L102 may replace:
Physics 112, L112
Physics 152, L152

Any other sequencing requires approval of the department chairperson.

N. *Science:* Science 111, L111, 112, L112 (Planetary Astronomy, the Universe, and labs); Science 121, L121, 122, L122 (Basic Chemical Science and Basic Chemical Science Laboratory, Applied Chemical Science and Applied Chemical Science Laboratory); Science 251, L251, 252, L252 (Introduction to Coastal Geology I, II, and labs). The courses above are two-semester sequence pairs; a student may not satisfy the All-College Natural Science Option Group requirement by taking two odd-numbered courses or two even-numbered courses from the above list. Within each sequence, courses must be taken in the order listed.

Social Sciences Division

O. *Economics:* Economics 281 (Principles of Economics — Micro), Economics 282 (Principles of Economics — Macro).

P. *Education:* Education 101, 102 (Introduction to Education in American Society I, II), Education 203 (Foundations of Education), Education 204 (Educational Psychology). Students taking six semester hours in Education to satisfy the Social Science Option requirement must take both halves of one of the following pairs: 101-102, 203-204.

Q. *Government:* Government 111, 112 (Politics and Government I, II), Government 103 (American Government), Government 261 (Theory and Practice of International Relations), Government 274 (Early Political The-

ory). Government 111 is a prerequisite for Government 112.

R. *History:* History 101, 102 (Western Civilization I, II), History 121, 122 (Foundations of the Modern World I, II), History 151, 152 (World Civilization I, II). Students taking six semester hours in History to satisfy the Social Science Option requirement must take both halves of one of the following pairs: 101-102, 121-122, 151-152.

S. *Psychology:* Psychology 113 (Psychology and Contemporary Living), Psychology 114 (General Psychology), Psychology 223 (Psychology of Human Development), Psychology 224 (Social Psychology), Psychology 225 (Abnormal Psychology), Psychology 243 (Industrial Psychology). Students taking only one course in Psychology to satisfy the All-College Social Science Option Group requirement must take Psychology 114. For students taking two courses in Psychology under Social Science Option, the following rules apply: 1) Students who elect to take Psychology 113 and 114, may take 113 before or after 114; 2) Students who elect to take any other combination of Psychology Designated Courses, must take Psychology 114 before any of the others (223, 224, 225, 243).

T. *Sociology:* Sociology 113 (Introduction to Sociology), Sociology 235 (Sociology of Law), Sociology 253 (Medical Sociology), Sociology 273 (Women in Contemporary Society), Sociology 283 (Sociology of Work and Occupations), Sociology 287 (Introduction to Aviation Systems), to be taken in any order or sequence.

To build the students' knowledge base to pre-professional levels, a number of Departments require supplemental course work ("Complementary Major Requirements") in particular major programs or tracks.

Complementary Major Requirements

Airway Science: Human Factors in Aviation (Major in Sociology): 18 semester hours of "Career-Related Components" — a segment of six courses constructed to correspond to each student's individual career plans, from cooperating departments such as Communications and Speech, Computer Science, History, Mathematics, Physics, Psychology, Management, etc.

Airway Science: Airway Computer Science (Major in Computer Science): Sociology 287 (Introduction to Aviation Systems); Sociology 386 (Human Factors in Aviation Systems); Sociology 387 (Seminar in the Sociology of Aviation); Sociology 388 (Legal Forces and Aviation Systems); Mathematics 161-162 (Calculus I, II); Mathematics 261-262 (Calculus III, IV); Mathematics 341-342 (Probability and Mathematical Statistics); Physics 151-152, L151-L152 (University Physics I, II, and labs); Physics 351 (Introduction to Microprocessors); Accounting 211-212 (Principles of Accounting I, II); Economics 281-282 (Principles of Economics I [Micro], II [Macro]); Management 310 (Principles of Management); Management 313 (Personnel Administration).

Airway Science: Airway Electronics Systems (Major in Physics [Engineering Technology]): Sociology 287 (Introduction to Aviation Systems); Sociology 386 (Human Factors in Aviation Systems); Sociology 387 (Seminar in the Sociology of Aviation); Sociology 388 (Legal Forces and Aviation Systems); Mathematics 161-162 (Calculus I, II); Mathematics 261-262 (Calculus III, IV); Mathematics 373 (Ordinary Differential Equations); Computer Science 131-132 (Computer Programming I, II); Accounting 211-212 (Principles of Accounting I, II); Economics 281-282 (Principles of Economics I [Micro], II [Macro]); Management 310 (Principles of Management); Management 313 (Personnel Administration).

Biology: For all tracks: Chemistry 111-112, L111-112 (General Chemistry I, II, and labs); Chemistry 211, L211 (Organic Chemistry and lab); Chemistry 212, L212 (Organic Chemistry II and lab) or Chemistry 314, L314 (Instrumental Analysis and lab); Physics 111-112, L111-112 (College Physics I, II, and labs) or Physics 151-152, L151-152 (University Physics I, II, and lab); Mathematics 161 (Calculus I); Mathematics 162 (Calculus II) or Mathematics 143 (Precalculus Mathematics).

For Biology/Computer Science: Computer Science 131-132 (Computer Programming I, II); Computer Science 253 (Assembly Language and Computer Structure) or Physics 351 (Introduction to Microprocesors); Computer Science 265 (Data Structures and Algorithms); plus sufficient semester hours in Computer Science courses numbered 200 or above to constitute an overall total of 18 semester hours in Computer Science (no more than 3 semester hours in computer "language" courses).

Biology/Secondary Education: Education 203 (Foundations of Education); Education 204 (Educational Psychology); Education 443-444 (Curriculum and Methods of Science and Mathematics Education); Education 446 (Reading Skills for Secondary Science and Mathematics); Education 500 (Student Teaching, 9 s.h.); Chemistry 111-112, L111-112 (General Chemistry I, II, and labs); Chemistry 211, L211 (Organic Chemistry I and lab); Chemistry option and lab; Mathematics 143 (Precalculus Mathematics) and Mathematics 161 (Calculus I) or Mathematics 161-162 (Calculus I, II); Physics 111-112, L111-112 (College Physics I, II, and labs) or Physics 151-152, L151-152 (University Physics I, II, and labs).

Chemistry: Chemistry: Computer Science 131 (Computer Programming I); Mathematics 161-162 (Calculus I, II); Mathematics 261-262 (Calculus III, IV); Physics 151-152, L151-152 (University Physics I, II, and labs).

Chemistry: Chemistry/Computer Science: Computer Science 131-132 (Computer Programming I, II); Computer Science 253 (Assembly Language and Computer Structure) or Physics 351 (Introduction to Microprocessors)); Computer Science 265 (Data Structures and Algorithms); plus two courses in Computer Science approved by the Chemistry Department, chosen from Computer Science 255 (Computer Organization), 263 (File Processing), 333 (Organization of Programming Languages), 355 (Operating Systems and Computer Architecture), 365 (Networks), 368 (Software Engineering), 376 (Computer Graphics), 466 (Device Drivers), Physics 352 (Microprocessor Interfacing); Mathematics 161-162 (Calculus I, II); Calculus 261-262 (Calculus III, IV); Physics 151-152, L151-152 (University Physics I, II, and labs).

Chemistry: Chemistry/Business: Computer Science 131 (Computer Programming I); Mathematics 161-162 (Calculus I, II); Mathematics 261 (Calculus III); Mathematics 113 (Elementary Statistics); Physics 151-152, L151-152 (University Physics I, II, and labs); Accounting 211-212 (Principles of Accounting I, II); Economics 281-282 (Principles of Economics I [Micro], II [Macro]); Business Law 213 (Business Law I); Finance 310 (Business Finance); Management 310 (Principles of Management); Marketing 310 (Principles of Marketing).

Chemistry: Biochemistry: Biology 114, L114 (General Biology II [Zoology] and lab); 2 Biology electives chosen from among Biology 274, L274 (Genetics and lab), Biology 277, L277 (Vertebrate Histology and lab), Biology 275, L275 (Immunology and lab), Biology 375, L375 (Microbiology and lab), Biology 403, L403 (Cellular Physiology and lab), Biology 404, L404 (Animal Physiology and lab); Mathematics 161-162 (Calculus I, II); Computer Science 131 (Computer Programming I); Physics 151-152, L151-152 (University Physics I, II, and labs).

Chemistry/Secondary Education: Education 203 (Foundations of Education); Education 204 (Education Psychology); Education 443-444 (Curriculum and Methods of Science and Mathematics Edu-

cation); Education 446 (Reading Skills for Secondary Science and Mathematics); Education 500 (Student Teaching, 9 s.h.); Biology 113-114, L113-114 (General Biology I [Botany], II [Zoology], and labs); Mathematics 161-162 (Calculus I, II); Computer Science 131 (Computer Programming I); Physics 151-152, L151-152 (University Physics I, II, and labs).

Communications and Speech: None.

Computer Science: Mathematics 161-162 (Calculus I, II); Mathematics 261-262 (Calculus III, IV); Mathematics 281 (Discrete Mathematics I); Physics 151-152, L151-152 (University Physics I, II, and labs); Physics 303 (Digital Electronics) or Physics 311 (Integrated Circuits I).

Economics: Economics: For all Economics tracks, Social Science 213 (Computer Applications in the Social Sciences); for track A, Mathematics 161-162 (Calculus I, II).

Economics: International Economics: 21 semester hours in Modern Languages (including 3 semester hours of Foreign Language Seminar); Accounting 211-212 (Principles of Accounting I, II); 2 Business electives; Social Science 213 (Computer Applications in the Social Sciences); 2 area studies courses in Government, History, Sociology.

Education: Elementary Education: 24 semester hours of subject-area electives; 1 Sociology elective; 1 Psychology elective.

Education: Business Education: [*Transfer credit may be applied only to program in Business Education] *Shorthand (Tracks A,B); *Typing (A,B); *Transcription (A,B); *Word-Information Processing (A,B,D,E); *a 3 s.h. Major Field Business Course (B); *an 18 s.h. Management/Business Administration package of courses (C); a 15 s.h. Major Field/Business Administration package of courses (D,E); Accounting 211 (Principles of Accounting I); Accounting 212 (Principles of Accounting II) (A,C,D,E); Business Law 213 (Business Law I); Business Law 214 (Business Law II) (C); Management 110 (Introduction to Business) (A,D,E); Economics 281-282 (Principles of Economics I [Micro], II [Macro]); CIS 211-212 (Introduction to Computer Information Systems, Introduction to Computer Programming).

English: None.

French: History 101-102 (Western Civilization I, II).

Government: Track B (Public Policy and Administration: 6 semester hours of Computer Science, plus 6 semester hours in a Government internship (Government 521 [Internship in Government], Government 522 [Internship Seminar], Government 523 [Washington Internship — Fall or Spring], Government 524 [Washington Internship — Summer]).

History: None.

Humanities: None.

Journalism: Track A (Journalism and English): 12 semester hours of English electives and 2 English courses on the 300 or 400 level in literature or creative writing.

Journalism: Track B (Journalism and Bilingual [Spanish] Communication): 18 semester hours in Spanish, chosen from Spanish 201-202 (Intermediate Spanish I, II), Spanish 207-208 (Hispanic Culture I, II), Spanish 306 (Hispanic Heritage in the United States), Spanish 501 (Directed Studies on the Spanish Press in the Americas).

Journalism: Track S (Journalism and Science Communication): 12 semester hours (including lab hours) of science electives, chosen from Biology, Chemistry, Physics, and Science courses (two-semester sequences where possible, and from sciences which were not used to fulfill the basic All-College Natural Science Option Group requirement).

Mathematics: Computer Science 131-132 (Computer Programming I, II); Physics 151-152, L151-152 (University Physics I, II, and labs).

Mathematics/Secondary Education: Education 203 (Foundations of Education); Education 204 (Educational Psychology); Education 443-444 (Curriculum and Methods of Science and Mathematics Education); Education 446 (Reading Skills for Secondary Science and Mathematics); Education 500 (Student Teaching, 9 s.h.); Computer Science 131-132 (Computer Programming I, II); Physics 151-152, L151-152 (University Physics I, II, and labs).

Mathematics/Computer Science/ Secondary Education: Education 203 (Foundations of Education); Education 204 (Educational Psychology); Education 443-444 (Curriculum and Methods of Science and Mathematics Education); Education 446 (Reading Skills for Secondary Science and Mathematics); Education 500 (Student Teaching, 9 s.h.); Computer Science 131-132 (Computer Programming I, II); Physics 151-152, L151-152 (University Physics I, II, and labs); Computer Science 253 (Assembly Language and Computer Structure) or Physics 351 (Introduction to Microprocessors); Computer Science 265 (Data Structures and Algorithms); sufficient additional semester hours in Computer Science courses numbered 200 or above (including Physics 352) to constitute an overall total of 18 semester hours in Computer Science (no more than 3 semester hours in computer "language" courses).

Physics: Physics: Chemistry 111-112, L111-112 (General Chemistry I, II, and labs); Computer Science 131-132 (Computer Programming I, II); Computer Science 222 (C Programming) or Computer Science 225 (Fortran Programming); 6 semester hours of Computer Science electives (not more than 3 semester hours in computer "language" courses) or Physics 351-352 (Introduction to Microprocessors, Microprocessor Interfacing); Mathematics 161-162 (Calculus I, II); Mathematics 261-262 (Calculus III, IV); Mathematics 373 (Ordinary Differential Equations).

Physics: Physics/Computer Science: Chemistry 111-112, L111-112 (General Chemistry I, II, and labs); Computer Science 131-132 (Computer Programming I, II); Computer Science 222 (C Programming) or Computer Science 225 (Fortran Programming); Computer Science 265 (Data Structures and Algorithms); Physics 351-352 (Introduction to Microprocessors, Microprocessor Interfacing); 6 semester hours of Computer Science electives (not more than 3 semester hours in computer "language" courses); Mathematics 161-162 (Calculus I, II); Mathematics 261-262 (Calculus III, IV); Mathematics 373 (Ordinary Differential Equations).

Physics: Computer Engineering Technology: Computer Science 131-132 (Computer Programming I, II); Computer Science 353 (Computer Architecture); Computer Science 376 (Introduction to Computer Graphics); Mathematics 161-162 (Calculus I, II); Mathematics 261-262 (Calculus III, IV); Mathematics 373 (Ordinary Differential Equations).

Physics: Electronic Engineering Technology: Computer Science 131-132 (Computer Programming I, II); Computer Science 376 (Introduction to Computer Graphics); Mathematics 161-162 (Calculus I, II); Mathematics 261-262 (Calculus III, IV); Mathematics 373 (Ordinary Differential Equations).

Physics/Secondary Education: Education 203 (Foundation of Education); Education 204 (Educational Psychology); Education 443-444 (Curriculum and Methods of Science and Mathematics Education); Education 446 (Reading Skills for Secondary Science and Mathematics); Education 500 (Student Teaching, 9 s.h.); Mathematics 161-162 (Calculus I, II); Mathematics 261-262 (Calculus III, IV); Mathematics 373 (Ordinary Differential Equations); Chemistry 111-112, L111-112 (General Chemistry I, II, and labs); Computer Science 131-132 (Computer Programming I, II); Computer Science 253 (Assembly Language and Computer Structure) or Physics 351 (Introduction to Microprocessors); Computer Science 222 (C Programming) or Computer Science 225 (Fortran Programming).

Psychology: Psychology/Computer Science: Computer Science 131-132 (Computer Programming I, II); Computer Science 253 (Assembly Language and Computer Structure) or Physics 351 (Introduction to Microprocessors); Computer Science 263 (File Processing) or Computer Science 333 (Organization of Programming Languages); sufficient semester hours in Computer Science courses numbered 200 or above (including Physics 351 and 352) to constitute an overall total of 18 semester hours in Computer Science (no more than 3 semester hours in computer "language" courses).

Sociology: CROSS (Spanish-Sociology): Spanish 201-202 (Intermediate Spanish I, II); Spanish 207-208 (Hispanic Culture I, II); Spanish 303-304 (Advanced Conversation I, II); any one Spanish course above 303-304.

Spanish: History 101-102 (Western Civilization I, II).

Minor Programs

Minor concentrations are available in most major degree programs. In general, they consist of 18 hours of course work specified by Departments, plus laboratory work where relevant. Minors currently available, and their requirements are as follows:

Biology: Biology 101-102, L101-102 (Principles of Biology I, II, and labs) or Biology 113-114, L113-114 (General Biology I [Botany], II [Zoology], and labs); then, preferably in the order listed: Biology 203 (Scientific Writing in Biology, 1 s.h.), Biology 274, L274 (Genetics and lab), Biology 333, L333 (Ecology and lab), Biology elective and lab, Biology 409 (Biology Seminar, 1 s.h.).

Chemistry: Chemistry 111-112, L111-112 (General Chemistry I, II, and labs); then Chemistry 211-212, L211-212 (Organic Chemistry I, II, and labs), followed by two courses from the following list: Chemistry 314, L314 (Instrumental Analysis and lab), Chemistry 331, L331 (Biochemistry and lab), Chemistry 411, L411 (Physical Chemistry I and lab).

Communications and Speech: C.Sp. 405 (Communications Theory) and C.Sp. 409 (Research Methods in Communications and Speech); plus four Communications and Speech courses chosen from one of the department's seven tracks.

Computer Science: Computer Science 131-132 (Computer Programming I, II), Computer Science 253 (Assembly Language and Computer Structure) or Physics 351 (Introduction to Microprocessors), Computer Science 265 (Data Structures and Algorithms), plus sufficient semester hours in Computer Science courses numbered 200 or above to constitute an overall total of 18 semester hours in Computer Science (no more than 3 semester hours in computer "language" courses).

Economics: Economics 281 (Principles of Economics — Micro), Economics 282 (Principles of Economics — Macro), Economics 291 (Introduction to Statistics I); then Economics 381 (Intermediate Micro Theory), Economics 382 (Intermediate Macro Theory), Economics 383 (Money and Banking).

Education: Business Education/ Adult-Continuing Education: Education 521 (Individualized Instruction for Business Education), Education 522 (Continuing Education for Business), Education 523 (Teaching Methodology and Instructional Materials for Adult Business Education), Education 524 (Conference and Workshop Organization), Education 723 (Adult Development), Education 515 (Internship for Business Educators).

English: One course each from four of the six English core groups (310s, 320s, 330s, 340s, 350s, 360s) — English H513 (English Honors Seminar), may replace one of these four courses; plus two courses chosen from any English course *except* 001, 002, 003, 101, 102, 103, 213, 214, 215, 303, 304, 305.

French: French 101-102 (Elementary French I, II); French 201-202 (Intermediate French I, II); then two courses chosen from among French 209 (Contemporary French Civilization I), French 210 (Contemporary French Civilization II), French 211 (The

French-Speaking World I), French 212 (The French-Speaking World II), French 311 (Masterworks of French Literature I — French version only), French 312 (Masterworks of French Literature II — French version only), French 401-402 (Seminar in French I, II), French 501 (Independent Study). A student must complete 18 semester hours in French beyond his/her initial placement level.

Government: Government: Government 111-112 (Introduction to Politics and Government I, II); then one course each from three of the following four groups:

American Group: Government 221 (Public Administration I), Government 222 (Public Administration II), Government 243 (American Constitutional Law), Government 244 (Civil Liberties), Government 253 (State and Local Government), Government 346 (American Presidency), Government 347 (Legislative Process), Government 355 (American Parties and Politics), Government 357 (Urban Politics and Government).

International Relations Group: Government 261 (Theory and Practice of International Relations), Government 262 (Current Issues in International Relations), Government 363 (American Foreign Policy), Government 463 (International Law and Organization).

Political Theory Group: Government 274 (Early Political Theory), Government 275 (Modern Political Theory), Government 374 (Research Methodology in Public Affairs), Government 473 (American Political Thought), Government 475 (Socialist Political Thought).

Comparative Government Group: Government 283 (Third World Politics), Government 383 (African Politics), Government 385 (Soviet Politics and Economy), Government 387 (Politics of Latin America), Government 389 (Politics of China), Government 483 (Politics of Europe), Government 485 (Politics of the Middle East), Government 487 (Japan: Politics and Policy). Plus one course chosen from among all those offered by the Government Department *except* Government 103 (American Government) and the internship courses.

Government: Public Policy and Administration: Government 111-112 (Introduction to Politics and Government I, II), then Government 221-222 (Public Administration I, II), Government 224 (Introduction to Public Policy), plus one course chosen from among all those offered by the Government Department *except* Government 103 (American Government) and the internship courses.

History: One of the following two-semester sequences: History 101-102 (Western Civilization I, II) or History 121-122 (Foundations of the Modern World I, II) or History 151-152 (World Civilization I, II) or History 181-182 (American History I, II); then any four additional History courses numbered 200 or above.

Humanities: Humanities: Humanities 101-102 (Introduction to the Humanities I, II), then two courses chosen from among Humanities 305 (Art and Literature of Greece and Rome), Humanities 306 (Art and Civilization of the Middle Ages), Humanities 307 (Art and Civilization of the Renaissance), Humanities 308 (Art of the Baroque and Enlightenment), Humanities 309 (Art of the Nineteenth Century), Humanities 310 (Art of the Twentieth Century), Humanities 311 (Art of the United States); then, Humanities 401-402 (Seminar in Humanities I, II).

Humanities: Art History: Humanities 103-104 (History of the Visual Arts I, II); then, three courses chosen from among Humanities 305, 306, 307, 308, 309, 310, 311; then, Humanities 401 or 402 (Seminar in Humanities I, II).

Humanities: Studio Art: Humanities 105-106 (Art Workshop I, II); then, one of the following two-semester sequences: Humanities 207-208 (Design for the Visual Arts I, II) or Humanities 209-210 (Drawing I, II) or Humanities 215-216 (Silk-screen Printing I, II); then, Humanities 501-502 (Independent Study).

Journalism: Journalism 113 (Introduction to Journalism), Journalism 114 (News Writing), Journalism 213 (Law of Communications), Journalism 313 (Reporting Fundamentals) or Journalism 413 (Feature and Special Articles), Journalism 317 (Copy Editing), and one Journalism elective. Preferably, courses should be taken in the order listed above.

Mathematics: Mathematics 161-162 (Calculus I, II), Mathematics 261-262 (Calculus III, IV); plus two courses chosen from among Mathematics courses numbered 200 or above.

Philosophy: One of the following two-semester sequences: Philosophy 115-116 (Introduction to Philosophy I, II) or Philosophy 117-118 (History of Philosophy I, II); then, any four other Philosophy courses chosen with the advice and consent of a member of the Philosophy Department.

Physics: Physics 151-152, L151-152 (University Physics I, II, and labs), Physics 303 (Digital Electronics) or Engineering Tech 205 (Applied Circuit Theory), Physics 361 (Classical Mechanics), Physics 451 (Modern Physics), preferably to be taken in the order listed.

Psychology: Psychology 114 (General Psychology); then, four of the following six courses: Psychology 213, L213 (Experimental Psychology/General and lab), Psychology 223 (Psychology of Human Development), Psychology 224 (Social Psychology), Psychology 225 (Abnormal Psychology), Psychology 226 (Theories of Personality), Psychology 243 (Industrial Psychology); plus any one additional Psychology course numbered 300 or above.

Sociology: Sociology 113 (Introduction to Sociology); then, two of the following three courses: Sociology 114 (Sociology and Urban Problems), Sociology 214 (Research Methods), Sociology 215 (Sociological Theory); plus any three additional courses in Sociology.

Spanish: Spanish 101-102 (Elementary Spanish I, II); Spanish 201-202 (Intermediate Spanish I, II); then, two courses chosen from among Spanish 207-208 (Hispanic Culture I, II) or Spanish 305 (Island Cultures of the Caribbean), Spanish 401 (Lazarillo, Don Quijote, and Don Juan), Spanish 402 (Social Literature of Latin America), Spanish 403 (Masterpieces of the Spanish Theater), Spanish 404 (Modern Hispanic Literature). A student must complete 18 semester hours in Spanish beyond his/her initial placement level.

Women's Studies: Women's Studies 111 (Women, History, and Culture) and Women's Studies 113 (Women, Science, and Society); plus four courses (no more than two from any one department) chosen from the following list: English 387 (Women and Literature), Government 203 (Women in Politics), History 371 (Women in American History), History 372 (Women in History: Europe and the Third World), History 376 (History of the Women's Movement), History 377 (Women and Religion in America), Humanities 223 (Contemporary Feminist Theology I), Humanities 224 (Contemporary Feminist Theology II), Psychology 235 (Psychology of Being Male and Female), Sociology 273 (Women in Contemporary Society), Sociology 275 (Women and Crime), Sociology 286 (Women and Work), Sociology 355 (Women and Health), Women's Studies 511 (Directed Study in Women's Studies).

B.A. and B.S. Degrees
Transfer Students

To receive a Bachelor of Arts (B.A.) degree or a Bachelor of Science (B.S.) degree, a student entering the College of Liberal Arts and Sciences with more than 30 semester hours of transfer credit must have completed courses totalling 122 semester hours, distributed according to the following requirements.

Although it is strongly recommended that transfer students take Designated Courses to satisfy their All-College requirements, it is not mandatory.

1. A two-semester First-year English sequence	6
2. A two-semester Second-year English sequence	6
3. One course in Mathematics or in Logic	3
4. One course in Speech	3
5. A two-semester Foreign Language sequence at any level (B.A. only)	6
6. Two Humanities Option courses in English, Modern Languages, Humanities or Philosophy (B.A. only)	6
7. Four Humanities Option courses in English, Modern Languages, Humanities or Philosophy (B.S. only), to include a maximum of 6 hours in any one Department	12
8. A two-semester Natural Science sequence, consisting of two courses, with labs, in any *one* Physical or Life Science	8
9. Four Social Sciences Option courses distributed as follows:	
For B.A. programs, four courses, which must include one from each of the following groups:	
a. Education, Psychology, Sociology	
b. Economics, Government	
c. History	
For B.S. programs, four courses, which must include two from each of the following groups:	
a. Education, Psychology, Sociology	
b. Government, Economics, History	12
10. 30 semester hours of courses in the student's major field	30
11. Minor and/or Complementary Major Requirements	
12. Free electives, to an overall total of 122 hours	
	122 hours

Bachelor of Science in Journalism (B.S.J.)

First-year students follow the requirements for the B.S. degree, p. 41, above, and the specific requirements for a Journalism major. Refer to pages 154-157 of this Bulletin.

Transfer students who enter the College of Liberal Arts and Sciences with more than 30 hours of credit, follow the requirements for the B.S. degree for transfer students, p. 41, above, and the specific requirements for a Journalism major. Refer to pages 154-157 of this Bulletin.

Bachelor of Science in General Studies Normally Available Evenings Only

The Bachelor of Science in General Studies degree is a special liberal arts program designed to make available to evening students a wider range of major subjects than is presently possible in the evening B.A. and B.S. programs. The B.S.G.S. degree resem-

bles the B.S. degree, but provides a variety of interdepartmental majors in the humanities, life sciences, physical sciences and social sciences. These majors consist of 42 semester hours in two or more related areas. There are no additional Complementary Major Requirements. In the event that an Evening Division student transfers to the Day Division, appropriate parts of the interdepartmental major can readily apply to a major in the Day Division.

To receive a B.S.G.S. degree, a student entering the College of Liberal Arts and Sciences Evening Division with 30 or less semester hours of transfer credit must have completed 122 semester hours, and must have completed the following requirements:

1. The College Requirements specified for the B.S. degree, p. 41.

2. Forty-two semester hours in the student's interdepartmental major field. See Evening Division section of this Bulletin for details.

3. Free Elective courses, to an overall total of 122 semester hours.

Bachelor of Science in General Studies — Transfer Students
Normally Available Evenings Only

To receive a Bachelor of Science in General Studies degree, a student entering the College of Liberal Arts and Sciences with more than 30 semester hours of transfer credit must have completed 122 semester hours of course work, and must have completed the following requirements:

1. The College Requirements specified for the B.S. degree for Transfer Students, p. 50.

2. Forty-two semester hours in the student's interdepartmental major field. See Evening Division section of this Bulletin for details.

3. Free Elective courses, to an overall total of 122 semester hours.

Associate in Arts and Associate in Science Degrees

Associate degrees normally require two years of academic work. They respond to the needs of students who wish to have the undergraduate experience, but for whom a full four-year program is not a viable option. These students are in an excellent position to transfer to a four-year program, or to re-enter after an absence from college or after a change of educational objective.

To receive the A.A. or A.S. degree, a student must have completed 62 hours of course work, as follows:

A.A

Freshmen	Sem. Hrs.
IS 111-112	6
1st-year English	6
Intro. Math	6
Nat. Sci. Opt.	8
Foreign Lang.	6
	32

Sophomores	Sem. Hrs.
Eng. 213/Phil. 113 or C.Sp. 103	6
Soc. Sci. Opt./Hum. Opt.*	6
Major or free elective	6
Major or free elective	6
Major or free elective	6
	30

A.S.

Freshmen	Sem. Hrs.
IS 111-112	6
1st-year English	6
Intro. Math	6
Nat. Sci. Opt.	8
Soc. Sci. Opt./Hum. Opt.*	6
	32

Sophomores	Sem. Hrs.
Eng. 213/Phil. 113 or C.Sp. 103	6
Major or free elective	6
Major or free elective	6
Major or free elective	6
Major or free elective	6
	30

*3 s.h. Soc. Sci. Opt. and 3 s.h. Hum. Opt. required

Associate in Arts and Associate in Science Degrees — Transfer Students

To receive a degree of Associate in Arts or Associate in Science, a student who enters the College of Liberal Arts and Sciences with more than 30 hours of transfer credit must have completed courses totalling 62 semester hours, as follows:

A.A.

Freshmen	Sem. Hrs.
1st-year English	6
Math or Logic/Soc. Sci. Opt.	6
Nat. Sci. Opt.	8
Foreign Lang.	6
Major or free elective	6
	32

Sophomores	Sem. Hrs.
Eng. 213/Phil. 113 (if Logic not used to satisfy Freshman Math or Logic requirement) or C.Sp. 103	6
Soc. Sci. Opt./Hum. Opt.*	6
Major or free elective	6
Major or free elective	6
Major or free elective	6
	30

A.S.

Freshmen	Sem. Hrs.
1st-year English	6
Math or Logic/Soc. Sci. Opt.	6
Nat. Sci. Opt.	8
Soc. Sci. Opt./Hum. Opt.*	6
Major or free elective	6
	32

Sophomores	Sem. Hrs.
Eng. 213/Phil. 113 (if Logic not used to satisfy Freshman Math or Logic requirement) or C.Sp. 103	6
Major or free elective	6
Major or free elective	6
Major or free elective	6
Major or free elective	6
	30

*3 s.h. Soc. Sci. Opt. and 3 s.h. Hum. Opt. required

Suggested Course Sequences For Bachelor's Degree

Freshman	Sem. Hrs.
Integrated Studies	6
First-year English	6
Introductory Math	6
Option Requirement	6 or 8
Free Electives	6
	30 or 32

Sophomore	Sem. Hrs.
Second-year English	6
Logic/Speech	6
Foreign Language (B.A.) or Humanities Option (B.S.)	6
Option Requirement	6 or 8
Major Courses	6
	30 or 32

Junior	Sem. Hrs.
Major Courses	12
Option Requirement	6 or 8
Minor and/or Complementary Major Requirements	6
Free Electives	6
	30 or 32

Senior	Sem. Hrs.
Major Courses	12
Minor and/or Complementary Major Requirements	12
Free Electives	6
	30

Suggested course sequences for Bachelor's Degrees in major programs that require more than 30 semester hours are provided in the Departmental sections of this Bulletin.

Pre-Law Study

Demand for admission to law school is at a high level; therefore the admissions process is very competitive and standards for admissions are high. Law schools consider a variety of factors in making final decisions on who will be admitted; however the students cumulative Grade Point Average and the Law School Admissions Test (LSAT) Score clearly are two very important indicators. Law schools also wish to assemble in a given academic year a class of students with diverse backgrounds, so that a healthy learning environment will exist. Law schools encourage applications from minorities, women, and the disabled.

Unlike pre-medical programs which are required for admission to medical schools, the concept of a "pre-law" program or curriculum is actually a myth because law schools do not suggest a single curriculum path that is an ideal preparation for law school. Therefore to say that a student is in a pre-law program simply means that the student intends to apply to law school in the future.

Moreover law schools do not specify what academic major will increase a students prospect for admission. Law schools want students who can think, read and write, and who have some understanding of the forces which have shaped human experience and society. Training in analytical reasoning and writing and in oral and written communica-

tions will also be beneficial. These attributes can be acquired in any number of college courses in the social sciences, natural sciences and humanities. What really counts is the students capacity to perform well at an academically rigorous level.

The Suffolk University Law School Admissions Committee is highly selective and places emphasis on the quality of undergraduate work and the results of the LSAT. The Law School offers a Juris Doctor degree after three years of study in the Day Division or four years in the Evening Division.

It is sometimes possible for a limited number of outstanding Suffolk undergraduates to gain early admissions to the Law School at the end of their junior year of college. Such students are able to earn the combined bachelor's degree and the Juris Doctor degree in six years instead of the customary seven. The first three years of study are at the College of Liberal Arts and Sciences or the School of Management, and the final three years are at Suffolk University Law School. Students in the Evening Division of Suffolk University are also eligible to apply for early admissions, though it normally takes a minimum of eight years of study to complete the combined degrees, evenings — four in college and four in law school. The bachelor's degree is awarded after the successful completion of the first full year of law study.

Students who seek early admission to Suffolk University Law School must enter Suffolk University as freshmen and complete 92 semester hours toward the bachelor's degree. This credit must include all required courses for the particular degree and major that the student selects, with the exception that the first full year of law study is substituted for major courses and electives that are normally taken in the senior year. Credit earned at other colleges or through the CLEP Test may not be counted toward the 92 semester hours. ONLY SUFFOLK STUDENTS WITH DISTINCTLY SUPERIOR RECORDS AND LSAT SCORES CAN EXPECT TO QUALIFY FOR EARLY ADMISSION AND COMBINED DEGREES.

Applicants to Suffolk University Law School normally take the LSAT in the fall semester of their Senior Year (or of their Junior Year if applying for early admissions and combined degrees). Applicants should ask the Dean of Students, Dr. D. Bradley Sullivan, to send a letter to the Law School certifying that they have completed their academic requirements. The Law School Admissions Committee will make a decision after it receives a transcript that includes final course grades.

Prospective law students will find additional information in the *Pre-Law Handbook* published by the Law School Admission Council and the Association of American Law Schools. This publication contains information on pre-law study, a brief word picture of most American law schools, and other relevant information.

Since the law school admissions process is complex and competitive every interested student must have ready access to current developments and strategies on admissions. Therefore an early and continuing relationship with your Pre-Law Advisor is strongly recommended.

Other Pre-Professional Options

Pre-Dental Education Most dental schools set as a minimum requirement for admission the inclusion of one year of general chemistry and one year of organic chemistry, one year of biology, one year of physics, and one year of English composition. It is recommended that the student also attain proficiency in those subjects that give a broad cultural background.

While some dental schools set 60 semester hours as the minimum quantity requirement, the crowded condition of the professional schools allows them to be more selective in their admissions; in practice, students with three complete years of college work, or more frequently with a bachelor's degree, are given preference.

The applicant may be required to present himself for an interview before his admission status is determined. Suffolk University

permits students admitted to accredited dental schools to fulfill senior year requirements by successful completion of first year dental studies. See Health Careers Committee, p.

Pre-Medical Education The admission requirements for medical schools throughout the country are being liberalized, but the changes are not uniform, and the rates of change are not the same. The trend is toward less emphasis on science courses that tend to be repetitious and more upon the humanities and social science subjects. Students are being encouraged to attain in college a broad cultural background as well as basic education in the sciences.

Nevertheless, nearly all medical colleges still require the inclusion of one year of general chemistry and one year of organic chemistry, one year of physics, one year of biology, one year of English composition, and one year of English literature in pre-medical preparation. Some medical schools also require a reading knowledge of French or German.

In the catalogues of some medical schools it is indicated that an applicant will be approved for admission after three years of college work. Since, however, the number of applicants far exceeds the number of students to be admitted, the pre-medical students with a bachelor's degree and promise of success as a doctor are selected. The personality appraisal is frequently made through interviews with the dean or admissions officer. Suffolk University permits students admitted to accredited medical schools to fulfill senior year requirements by successful completion of first year medical studies. See Health Careers Committee, p. 55.

Pre-Optometry Education Colleges of optometry, like other professional schools, base their admission standards on the academic records of their applicants. Preference is given to applicants who present college records showing a high degree of achievement in their classroom work.

The requirements for admission to the schools and colleges of optometry are not identical. Typically, the requirements include courses in English, mathematics, physics, chemistry, and biology or zoology. Some schools and colleges have varied requirements in psychology, the social sciences, literature, philosophy, and foreign languages.

The pre-optometry requirements for almost all accredited colleges of optometry represent a minimum of two academic years of study. It is recommended that Suffolk University students who plan to study optometry pursue a commonly required Freshman year in which they include in their programs Freshman Integrated Studies, First-year English, Introductory Mathematics, General Biology, and Inorganic Chemistry. In their Sophomore year, pre-optometry students should study General Physics, Calculus, Second-year English, Logic, Speech, and courses from the Humanities or Social Science Option groups. The student should be acquainted with the requirements of the optometry college he or she expects to attend. See Health Careers Committee below and p. 55.

Pre-Veterinary Education
The minimum academic requirements for to admission a school of veterinary medicine parallel those of dental schools. However, since there are far fewer veterinary colleges than medical or dental schools, the opportunities are more limited. Consequently, the customary requirement for admission is the completion of the baccalaureate. In addition, most veterinary schools are state universities which give priority for admission to residents of the state. Many veterinary schools require a course in "Animal Husbandry" or "Experience on a Farm" as a prerequisite to admission. Suffolk University does not offer these courses, but they may sometimes be obtained at another institution during the summer. Prospective students should apprise themselves of the specific requirements of the various veterinary schools as early in their undergraduate program as possible. Suffolk University permits

students admitted to accredited veterinary schools to fulfill senior year requirements by successful completion of first year veterinary studies. See Health Careers Committee below.

Health Careers Committee

The Health Careers Committee of Suffolk University was formed in 1972 at the request of the Dean of the College of Liberal Arts and Sciences. The committee's primary responsibility is to write recommendations for qualified Suffolk University students seeking admission to professional schools in preparation for careers in medicine, veterinary medicine, and dentistry. As far as recommendations to such professional schools are concerned, only the Health Careers Committee represents Suffolk University.

A Suffolk senior whose cumulative honor point average is at least 3.0 or a special student whose post-graduate cumulative honor point average at Suffolk is at least 3.3, qualifies for consideration by the Health Careers Committee. A senior whose cumulative average is slightly below 3.0 may also qualify by demonstrating steady improvement of his or her academic performance over the years. In the case of a transfer student, transfer grades will be taken into account.

Any pre-medical, pre-veterinary, or pre-dental student who satisfies the foregoing criteria should use a typewriter to fill out the Health Careers Information Form which is available from the Chairperson of the Health Careers Committee. The student must also type out a list of the names and addresses of the schools to which admission is being sought. Both the Information Form and the list of schools should be submitted to the Committee Chairperson.

The Health Careers Committee will review the applicant's academic record and will obtain personal evaluations from faculty members who know the applicant. Working with this information, the Committee will compose a letter of recommendation for the applicant and will send a copy of this letter to each school on the applicant's list.

Undergraduate Programs

Airway Science

Professor: Sullivan, Coordinator of Aviation Programs

Airway Science: Interdepartmental Bachelor's Degree Programs

The departments of Mathematics and Computer Science, Physics, and Sociology jointly offer two major programs which are based on guidelines published by the Airway Science Curriculum Task Force of the Federal Aviation Administration (F.A.A.). These programs each include an extensive block of courses in a scientific discipline (equivalent to a major), a block of Sociology courses which deal with human factors in aviation, and a block of courses which establish basic organizational and administrative principles. Graduates of these programs are qualified to fill positions such as Computer Specialist, Electronics Technician, and Air Traffic Control Specialist in the F.A.A., as well as similar positions in the aviation and aerospace industry.

In both of the degree programs described below there is an aviation core course requirement of 12 hours.

This material is presented within a human factors perspective by means of four courses offered in the department of Sociology: Introduction to Aviation Systems (SOCIO 287), Human Factors in Aviation Systems (SOCIO 386), Seminar in Sociology of Aviation (SOCIO 387), and Legal Forces and Aviation Systems SOCIO 388). The curriculum for both majors is based upon guidelines published by the Airway Science Curriculum Task Force of the Federal Aviation Administration. Students interested in the above majors should contact the Coordinator for Aviation Programs.

Airway Computer Science Major

A student in this program must successfully complete 30 semester hours in computer science as described below.

Major Course Requirements

Computer Science: (30 hours)
- Computer Science 131-132 (Computer Programming I and II)
- Computer Science 253 (Assembly Language and Computer Structure)
- Computer Science 265 (Data Structure and Algorithms)
- Computer Science 263 (File Processing)
- Computer Science 333 (Organization of Programming Languages)
- Computer Science 353 (Architecture of Computer Systems)
- Computer Science 355 (Operating Systems)
- Computer Science Elective Courses*

*Additional courses to make a total of at least 30 semester hours must be chosen from Computer Science courses numbered 200 or higher. Not more than three hours may be in "language" courses. Physics 351 (Introduction to Microprocessors) and Physics 352 (Microprocessor Interfacing) are acceptable choices. Substitution of any other courses requires written approval by the Chairman of the Department of Mathematics and Computer Science.

Complementary Major Requirements

Mathematics: (18 hours)
- Mathematics 161-162, 261-262 (Calculus I, II, III, and IV)
- Mathematics 341-342 (Probability and Mathematical Statistics)

Physics: (12 hours)
- Physics 151-152, L151-152 (University Physics and Lab)
- Physics 351 (Introduction to Microprocessors)

Sociology: (12 hours)
- Sociology 287 (Introduction to Aviation Systems)
- Sociology 386 (Human Factors in Aviation Systems)

Sociology 387 (Seminar in Sociology of Aviation)
Sociology 388 (Legal Forces and Aviation Systems)

Specific supporting courses in other disciplines: (18 hours)
Accounting 211-212 (Principles of Accounting)
Economics 213-214 (Principles of Economics)
Management 310 (Principles of Management)
Management 313 (Personnel Administration)

Note that the eighteen semester-hours of coursework in mathematics specified above satisfies the requirements for a minor in mathematics.

Note also that the B.A. and B.S. requirements for an introductory Mathematics sequence and for a two semester sequence of courses, with labs, in a natural science are subsumed by the complementary major requirements.

Airway Computer Science Major

(Suggested Course Sequence)

Freshman	Sem. Hrs.
First-Year English	6
Integrated Studies	6
Mathematics 161-162	6
Physics 151-152 & L151-152	8
Computer Science 131-132	6
	32

Sophomore	Sem. Hrs.
Second-Year English	6
Economics 213-214	6
Language (B.A.) or Humanities (B.S.)	6
Mathematics 261-262	6
Computer Science 253	3
Computer Science 265	3
	30

Junior	Sem. Hrs.
Computer Science 263	3
Computer Science 353	3
Mathematics 341-342	6
Physics 351	3
Sociology 287	3
Sociology 386	3
Accounting 211-212	6
Humanities option	3
	30

Senior	Sem. Hrs.
Computer Science 333	3
Computer Science 355	3
Computer Science Electives	6
Sociology 387	3
Sociology 388	3
Management 310	3
Management 313	3
Logic and Speech	6
	30

Computer Science Minor

To qualify for a minor in computer science, a student must successfully complete 18 semester hours of course work in computer science as follows:

Computer Science 131-132 (Computer Programming I and II)
Computer Science 253 (Assembly Language and Computer Structure)
Computer Science 265 (Data Structures and Algorithms)
Computer Science Elective Courses*

*Additional courses totalling six hours must be chosen from a list of computer courses approved by the Chair of the Department of Mathematics and Computer Science. Not more than three hours may be in "language" courses. At present, the approved courses include all CMPSC courses numbered 200 or higher, as well as PHYS 351 and 352 (Microprocessors I and II). Substitution of any other courses requires prior written approval by the Chair of the Department of Mathematics and Computer Science.

Airway Electronic Systems Major

Core Requirements in Engineering Technology (25 hours)

Eng. Tech. 204 (Electronics Laboratory)
Eng. Tech. 205 (Applied Circuit Theory)
Eng. Tech. 206 (Electronic Devices)
Eng. Tech. 325 (Math Methods for Engineers)
Eng. Tech. 335 (Signals and Control Systems)
Eng. Tech. 386 (Engineering Computer Graphics)
Eng. Tech. 403 (Engineering Electricity and Magnetism)
Eng. Tech. 425 (Electrical Power and Transmission)

Complementary Requirements in Physics (16 hours)

Physics 151-152, L151-152 (University Physics I and II and laboratories I and II)
Physics 351 (Introduction to Microprocessors)
Physics 303 (Digital Electronics)

Complementary Requirements in Mathematics and Computer Science (21 hours)

Mathematics 161-162 (Calculus I and II)
Mathematics 261-262 (Calculus III and IV)
Mathematics 373 (Ordinary Differential Equations)
Computer Science 131-132 (Computer Programming I and II)

Complementary Course Requirements in Aviation Systems (12 hours)

Sociology 287 (Introduction to Aviation Systems)
Sociology 386 (Human Factors in Aviation)
Sociology 387 (Seminar in Sociology of Aviation)
Sociology 388 (Legal Forces and Aviation Systems)

Bachelor of Science

Airway Electronic Systems

(Suggested course sequence)

Freshman	Sem. Hrs.
First-year English	6
Integrated Studies	6
Calculus I and II	6
University Physics & Lab	8
Computer Programming I and II	6
	32

Sophomore	Sem. Hrs.
Second-year English	6
Calculus III and IV	6
Applied Circuit Theory	4
Electronic Devices	4
Logic, Speech	6
Accounting 211, 212	6
	32

Junior	Sem. Hrs.
Intro. to Microprocessors	4
Math Methods for Engineers	3
Humanities Option	3
Electronics Laboratory	2
Digital Electronics	4
Differential Equations	3

Junior cont'd.	Sem. Hrs.
Sociology 287	3
Sociology 386	3
Economics 213, 214	6
	31

Senior	Sem. Hrs.
Engineering E&M	3
Signals and Control Systems	3
Electrical Power & Transmission	3
Engineering Computer Graphics	3
Humanities Option	6
Sociology 387, 388	6
Management 310	3
Management 313	3
	30

Bachelor of Arts

Airway Electronic Systems

(Suggested course sequence)

Freshman	Sem. Hrs.
First-year English	6
Integrated Studies	6
Calculus I and II	6
University Physics & Lab	8
Computer Programming I and II	6
	32

Sophomore	Sem. Hrs.
Second-year English	6
Calculus III and IV	6
Applied Circuit Theory	4
Electronic Devices	4
Logic, Speech	6
Accounting 211, 212	6
	32

Junior	Sem. Hrs.
Intro. to Microprocessors	4
Math Methods for Engineers	3
Foreign Language	6
Differential Equations	3
Digital Electronics	4
Sociology 287	3
Sociology 386	3
Economics 213, 214	6
	32

Senior	Sem. Hrs.
Engineering E&M	3
Signals and Control Systems	3
Electrical Power & Transmission	3
Engineering Computer Graphics	3
Humanities Option	3
Sociology 387, 388	6
Management 310	3
Management 313	3
History Option	3
	30

Biology

Department of Biology

Professors: West (Chairperson), Snow
Associate Professor: Howe
Assistant Professors: Burn, DiLiddo, Rhodes
Lecturers: Benoit, Comeau, Merrill, Ross
Technician: Lischinsky

Biology majors may obtain a Bachelor of Science or Bachelor of Arts degree in Biology either by specializing in one of several programs (Medical Technology, Environmental Technology, Computer Science, Marine Science), or by following more flexible course offerings. The Department of Biology also administers the Life Studies major. (See p. 65). Additionally, a jointly administered Life Studies and Computer Science Applications program is available (see p. 87). Students should decide on a program in the Freshman year after consultation with the Freshman advisor.

To earn a bachelor's degree in Biology requires the satisfactory completion of 1) prescribed courses in the major and related electives with a minimum grade point average of 2.0, 2) general requirements for all undergraduates in the College of Liberal Arts (see p. 39), and 3) free electives.

Transfer students wishing to major in Biology must successfully complete a minimum of 12 semester hours in Biology at Suffolk University. An Evening Division student who chooses to major in Biology must plan his or her program carefully with the Chairperson of the Department since very few Biology courses are presently being offered in the evening.

Courses listed for graduate credit may be applied to the Ed.M. degree at Suffolk University, subject to the approval of the Chairperson of the Department of Education. Students who wish to transfer graduate credit to another university should obtain the prior approval of their dean. Some courses may qualify for graduate credit with the approval of the instructor and the Chairperson of the Department of Biology.

Biology Program A Biology major must take 30 semester hours in Biology and the following specific, related science courses in addition to the all-college requirements. Each Biology major will be advised in the selection of courses in accordance with his or her objectives. Non-majors who enter a Biology major program after taking Biology 101, L101 will receive major credit for those courses. Students who demonstrate outstanding proficiency in Biology may be invited to participate in the Biology Honors Program (H419).

Core requirements

Biology 113-114, L113-L114, 203; seminar (409 or 479 or H419)
Chemistry 111-112, L111-112; 211; 212 or 314, L211; L212 or L314
Physics 111-112, L111-L112 or 151-152, L151-L152
Math 143-161 or 161-162

*Bachelor of Arts/ Bachelor of Science in Biology

Freshman	Sem. Hrs.
Biology 113-114, L113-L114	8
Chemistry 111-112, L111-L112	8
Math 161, Option	6
English	6
Integrated Studies	6
	34

Sophomore	Sem. Hrs.
Major electives	8
Chemistry 211, L211, and elective	8
English Option	6
Social Sci. Option	3
Scientific Writing (Bio 203)	1
Speech and Logic	6
	32

Junior	Sem. Hrs.
Major electives	8
Physics 111-112, L111-L112 or 151-152, L151-L152	8
Humanities Options	6
Electives	6
	28

Senior	Sem. Hrs.
Major electives	4
Humanities Option	3
Social Sci. Options	6
Biology Seminar	1
Electives	14
	28

**B.A. must take 6 hours of foreign language as part of the Humanities Option.*

Medical Technology

Suffolk University has entered into affiliation with the Newton-Wellesley Hospital; the Henry Heywood Memorial Hospital, Gardner, MA; Cambridge City Hospital; and Norwood Hospital, in order to offer the Bachelor's Degree with a major in Biology and a program in Medical Technology. Other schools of Medical Technology may qualify for the internship year if approved by the Coordinator of Medical Technology. The program consists of a minimum of three years of day study in liberal arts and sciences at Suffolk University and a final year (minimum of 30 semester hours) of technology at any approved hospital school of medical technology.

A student may elect to follow the program at the University in four years and a fifth year at a hospital school. The clinical year is of 12 months duration and normally starts in August. Instruction is given in the laboratories of the hospitals by their staff. No tuition is charged by the University for the clinical year of study. The standard graduation fee is charged of those students involved in the clinical program during their senior year. Students must apply to the hospital school upon registering for their fifth semester of college work and must be enrolled in Biology 479 at this time. Applicants to the hospital schools are highly competitive. Acceptance is determined solely by the selecting hospital.

Upon satisfactory completion of the prescribed curriculum, students are eligible to receive a certificate in Medical Technology from the affiliated hospital, and the degree of Bachelor of Science with a major in Biology from Suffolk University.

Graduates are eligible to seek certification through examination by an independent credentialing agency, such as the National Board of Registry (American Society of Clinical Pathologists) and the National Certification Agency for Medical Laboratory Personnel (NCA).

Most hospital schools require students enrolled in the medical technology program to have their transcripts evaluated by the National Accrediting Agency for Clinical Laboratory Sciences (NAACLS) before entering the clinical phase of their program.

The program is under the joint direction of the Medical Technology Coordinator of the Suffolk University Department of Biology; Dr. John H. Meeker, Director of the Newton-Wellesley Hospital School of Medical Technology; Dr. Dieter Keller, Director of the Henry Heywood Memorial Hospital School of Medical Technology; Dr. Chikao G. Hori, Director, Medical Technology Program, Cambridge City Hospital; and the Director of the Norwood Hospital School of Medical Technology.

Medical Technology Program

(122 Semester Hours)

Freshman	Sem. Hrs.
Biology 113-114, L113-L114	8
Chemistry 111-112, L111-L112	8
Math 161, Option	6
English	6
Integrated Studies	6
	34

Sophomore	Sem. Hrs.
Biology 274, L274, 275, L275	8
Chemistry 211, L211 & Chem 314, L314	8
Speech & Logic	6
Soc. Sci. Option	3
English Option	6
Scientific Writing	1
	32

Junior	Sem. Hrs.
Biology 375, L375 & *Major electives	12
Physics 111-112, L111-L112 or 151-152, L151-L152	8
Humanities Option	6
Soc. Option	3
Bio Seminar	1
	30

Senior	Sem. Hrs.
**Science 570 - Medical Technology Internship	
Science 573 - Clinical Chemistry	9
Science 574 - Hematology	9
Science 575 - Clinical Microbiology	10
Science 576 - Blood Banking	4
	32

**Major Electives must be selected from:*

Biology 273, L273
Biology 277, L277
Biology 376, L376
Biology 385, L385
Biology 403, L403

***or Equivalent as designated by participating hospital school.*

Affiliated Cooperative Program in Environmental Technology

By affiliation with governmental and private agencies, Suffolk University offers a cooperative program in Environmental Technology. Formal programs have been established with several cooperating agencies, and several less formal interactions offer students a variety of training opportunities.

Students have an option to select one of two academic tracks within the Environmental Technology Program. One track permits the student to spend a six-month period with an affiliated agency on a full-time basis while under the guidance of a faculty member from the University. In some cases students are compensated during the time at the agency.

The second track permits a student to be associated with a local agency on a limited-time basis while being a full-time student at the University. Depending on available funding, the student may or may not be compensated while at the agency.

It is expected that the student in either track will be registered for credit at the University and will fulfill the usual requirements for a student at the University.

Environmental Technology Program

(122 Semester Hours)

Track A

Freshman	**Sem. Hrs.**
Biology 113-114, L113-L114	8
Chemistry 111-112, L111-L112	8
Math 161, Option	6
English	6
Integrated Studies	6
	34

Sophomore	**Sem. Hrs.**
Chemistry 211, L211 & elective	8
Biology 273, L273, major elective	8
Biology 203	1
Speech and Logic	6
English Option	3
Humanities Option	3
	29

Junior	**Sem. Hrs.**
English Option	3
Electives	5
Physics 111-112, L111-L112	8
or 151-152, L151-L152	8
Social Science Option	3
Humanities Option	3
Major electives	8
	30

Senior	**Sem. Hrs.**
*Science 433 Internship	12
Biology 479	1
Social Science Option	6
Major electives	4
Humanities Option	3
Electives	3
	29

Relevant Summer field-oriented courses are offered at the Robert S. Friedman Field Station in Maine.

Students will spend six months in residency in an affiliated agency during the junior or senior year.

In Track B students substitute Science 533, Environmental Science-Directed Study (up to 12 sem. hrs. at local agencies) for Science 433 Internship. Students enrolled in Science 533 must also be enrolled in at least three other courses at the University. Agencies involved in this track are within easy commuting distance from the University.

Students interested in the Environmental Technology Program should see the Program Coordinator early in their academic career to determine available placements and obtain counselling regarding appropriate courses.

Upon satisfactory completion of the prescribed curriculum, students are eligible to receive the degree of Bachelor of Science or Bachelor of Arts with a major in Biology from Suffolk University.

Biology/Computer Science

The program requires the completion of 18 semester hours of designated course work offered under the Computer Science: Interdisciplinary Programs (see pp. 86-87). The major requirements for the Bachelor of Science or Bachelor of Arts degree in Biology or the Bachelor of Arts in Life Studies remains the same. The approved sequence of courses will be taken in lieu of free electives in either of these degree options.

Bachelor of Science in Biology/Computer Science

(Suggested Course Sequence)

Freshman	Sem. Hrs.
English	6
Biology 113-114, L113-L114	8
Chemistry 111-112, L111-L112	8
Computer Science 131-132	6
Integrated Studies	6
	34

Sophomore	Sem. Hrs.
Major elective	4
Chemistry 211, L211 & elective	8
English Option	6
Speech & Logic	6
Biology 203	1
Math 161, Option	6
	31

Junior	Sem. Hrs.
Major Electives	8
Physics 111-112, L111-L112 or 151-152, L151-L152	8
Humanities Option	6
Comp Sci 253 or Phys 351	3
Comp Sci 263 or Phys 333	3
	28

Senior	Sem. Hrs.
Bio elective	8
Sci 599	4
Bio Seminar	1
*Comp Sci Elective	6
Soc Sci Option	6
Free Elective	4
	29

**See list of approved courses for the Computer Science: Interdisciplinary Programs on pg.*

Biology/Marine Science

A distinguishing feature of the program is the completion of five field courses in marine science, with two of the courses in non-biology disciplines (e.g. geology, chemistry, physical oceanography). The three biology field courses may be used in partial fulfillment of the 30 semester hours requirement of the major in Biology. All College requirements for the B.A. or B.S. degrees apply.

Courses that apply to this program are Biology 253, L253, 254, L254, Science 251-252, L251-L252, and 253 and special marine Biology offerings, usually presented in the summer, at the R. S. Friedman Field Station.

Robert S. Friedman Field Station at Cobscook Bay The Robert S. Friedman Field Station was dedicated on October 7, 1973. This is a forty-acre field station on the shores of Cobscook Bay in Edmunds, Maine. The station exists as a camping field-station which features wooden tents that serve as sleeping facilities, a central multi-purpose building, laboratory facilities, a classroom, circulating sea water system and several small water craft.

The facility is utilized by groups from a number of educational institutions throughout New England. Various departments of Suffolk University offer several field-oriented courses during the academic year as well as a summer program which make extensive use of the facility in support of the Marine Science and Environmental Technology programs.

Although the facility was organized primarily to meet the need for undergraduate field experience in a marine environment, visiting scientists and graduate students make use of the station to collect and study data concerning both marine and terrestrial organisms.

The Laboratory has the advantage of being in the lower Bay of Fundy area in the northernmost coastal region of Maine. The Bay has the greatest fluctuation of tide in the continental United States and allows for ready access to the collecting of many marine organisms. Washington County, Maine, is one of the most picturesque areas on the eastern seaboard and is in close proximity to many tourist attractions such as the summer residence of the late President Franklin D. Roosevelt at Campobello Island, Canada and Cobscook Bay State Park. The United States Department of the Interior maintains the Moosehorn National Wildlife Refuge in the immediate area and carries on extensive research with the woodcock.

Life Studies Major

The Department of Biology administers the *Life Studies* major. The completion of 30 semester hours of biology courses in an approved program of studies which may be used to satisfy the requirements shall include Biology 409 (seminar); an area of concentration, with a minimum of 12 semester hours, in a non-science academic discipline, and a two-semester sequence in a non-biological science. The requirements for the Bachelor of Arts degree must be fulfilled to qualify for the *Life Studies* major. Courses with application to life studies offered by departments other than Biology may be authorized for credit in the major upon written approval by the Department Chairperson of Biology and the one in which the course is offered. *Note:* The *Life Studies* major is not intended to meet the requirements for admission to graduate or professional schools with the prerequisites of a major in Biology.

Biotechnology (Associate in Science Degree)

An Associate in Science degree program in Biotechnology combines the initial two years of a biology degree program with a directed summer work experience in an approved private or governmental research facility working in the area of genetic engineering. Upon satisfactory completion of the prescribed course-work and a summer internship at the end of the freshman year, an Associate in Science degree will be awarded. A student may choose to continue studies toward the baccalaureate.

Biotechnology (Associate in Science Degree)

First Year *(1st Sem.)*	**Sem. Hrs.**
Biology 101, L101/113, L113	4
Chemistry 111, L111	4
Math Option	3
English 101	3
Integrated Studies 111	3
	17

(2nd Sem.)	**Sem. Hrs.**
Biology 274, L274	4
Chemistry 112, L112	4
Math Option	3
English 102	3
Integrated Studies 112	3
	17

Summer Session
Industry Internship: Biology 479 1 semester hour

Second Year *(1st Sem.)*	**Sem. Hrs.**
Biology 375, L375	4
Chemistry 211, L211	4
English 213	3
*Soc./Hum. Option I	3
	14

(2nd Sem.)	**Sem. Hrs.**
Biology 275, L275	4
Elective	3
Speech/Logic	3
*Soc./Hum. Option II	3
	13

** 3 semester hours in Sociology option required*
** 3 semester hours in Humanities option required*

Note:

Biology	101 — Principles of Biology
	L101 — Principles of Biology Lab
	274 — Genetics
	L274 — Genetics Lab
	375 — Microbiology
	L375 — Microbiology Lab
	275 — Immunology
	L275 — Immunology Lab
	113 — General Biology (Botany)
	L113 — General Biology (Botany) Lab
Chemistry	111 — General Inorganic Chemistry
	L111 — General Inorganic Lab
	112 — General Inorganic Chemistry
	L112 — General Inorganic Lab
	211 — Organic Chemistry

Cytotechnology (Bachelor of Science Degree)

Through an agreement with an accredited school of cytotechnology, students prepare for the Registry Examination in Cytotechnology in order to qualify as a professional Cytotechnologist. Students spend the first three years fulfilling the requirements of the biology major which include the prerequisite courses needed to enter a school of cytotechnology. Upon satisfactory completion of course work and the hospital-associated laboratory training, the student will receive the Bachelor of Science degree from Suffolk University. The student is then eligible to take the certifying exam and upon certification embark upon a rewarding health science career as a professional Cytotechnologist concerned with cancer detection and identification.

Cytotechnology (Bachelor of Science Degree)

Freshman	**Sem. Hrs.**
Biology 113-114, L113-L114	8
Chemistry 111-112, L111-L112	8
Math 161, Option	6
English	6
Integrated Studies	6
	34

Sophomore	**Sem. Hrs.**
Biology 274, L274, 277, L277	8
Chemistry 211, L211, 314, L314	8
Speech/Logic	6
Soc. Sci. Option	3
Scientific Writing	1
	32

Junior	**Sem. Hrs.**
Biology Major Electives * & Biology 375, L375	12
Physics 111-112, L111-L112 or 151-152, L151-L152	8
Humanities Option	6
Soc. Option	3
Biology Seminar	1
	30

Senior **Sem. Hrs.**

Twelve-month training program in Cytotechnology credits to complete the 122 hour degree credits will be transferred.

**Major Electives must be selected from:*

Biology 273, L273
Biology 376, L376
Biology 385, L385
Biology 403, L403
Biology 213

Biology 101 — Principles of Biology I. An introductory course stressing basic concepts of cell biology, genetics and evolution. Required as first course science option in Biology. May be used for major credit. *3 hours lecture. 1 term — 3 semester hours. Days or evenings.*

Biology L101 — Principles of Biology Laboratory I. A series of experiments and investigations to study the principles of diffusion, enzyme function, cell division, genetics and evolution. *3 hours laboratory. 1 term — 1 semester hour. Days or evenings.*

Biology 102 — Principles of Biology II. Investigations of relationships among organisms in time and space. Diversity, ecology, behavior and human biology in the context of contemporary society. This is a suggested course for the non-science majors and it may not be used as credit for science majors. *Prerequisites: Biology 101 and L101.* 3 hours lecture. *1 term — 3 semester hour. Days or evenings.*

Biology L102 — Principles of Biology II Laboratory. Exercises and field trips designed to complement and demonstrate the principles developed in the lecture section. 3 hours laboratory. *1 term — 1 semester hour. Days or evenings.*

Biology 103 — Basic Anatomy and Physiology. Designed option for non-science majors considering a career in a health related profession. Provides an introduction to the structure and function of the human body. Lectures and reading include topics in cell biology, the skeleton, muscles, nerves, digestion, circulation, excretion, and endocrinology. *Prerequisite: Biology 101, L101. 3 hours lecture. 1 term — 3 semester hours. Days or evenings.*

Biology L103 — Basic Anatomy and Physiology Lab. Laboratory investigations in human structure and function including histology, the skeleton, muscles, nerve and central nervous systems, digestions and excretion. *3 hours laboratory. 1 term — 1 semester hour. Days or evenings.*

***Biology 113 — General Biology (Botany).** Designed primarily for the biology major. Principles of cytology, physiology, ecology and genetics are covered using plant examples. The major plant groups are surveyed with emphasis on their characteristics and phylogeny. Required of all Biology majors. 3 hours lecture. *1 term — 3 semester hours.*

Biology L113 — General Biology (Botany) Laboratory. A series of investigations covering topics discussed in Biology 113. Field and laboratory experiences are included. 3 hours laboratory. *1 term — 1 semester hour.*

***Biology 114 — General Biology (Zoology).** Introduction to animal biology emphasizing evolution, classification, morphology, function, development, and ecology. Required of all Biology majors. 3 hours lecture. *1 term — 3 semester hours.*

Biology L114 — General Biology (Zoology) Laboratory. A series of laboratory experiences in animal physiology, behavior and diversity. *3 hours laboratory. 1 term — 1 semester hour.*

Biology 157 — Underwater Techniques. Theory and application of self-contained underwater breathing apparatus as a tool to support operations in an underwater environment. Physician's approval required. *1 term — 1 semester hour.*

Biology 203 — Scientific Writing in Biology. The principles and practice of preparing and writing scientific papers utilizing the resources of published literature in the biological sciences. A familiarization of style and procedure as defined by the editors of biological journals. Required of all Biology majors. Transfer students should enroll as early in their curriculum as possible except when waived by the Chairperson of the Department of Biology. *Prerequisite: Biology 113 or 114 and English 102. 1 term — 1 semester hour. Days or evenings.*

**Attendance mandatory at periodic Monday (4 p.m.) seminars featuring guest speakers, and participation in the annual field trip to CBL.*

Biology 204 — Animal Behavior. Introduction to the basic principles of animal behavior with an emphasis on the ethology and social behavior of vertebrates from an ecological and evolutionary point of view. *Prerequisite: Biology 114 or instructor's consent.* 3 hours lecture. *1 term — 3 semester hour.*

Biology L204 — Animal Behavior Laboratory. Application of behavioral principles presented in lecture. Includes laboratory projects and field work. 3 hours laboratory. *1 term — 1 semester hour.*

Biology 213 — Bioethical Issues. Major topics include genetic engineering, reproductive technologies, human experimentation, euthanasia, the ethics of scientific research and decision making regarding contemporary bio-social issues. *Prerequisite: Biology 101 or equivalent.* 3 hours lecture. *1 term — 3 semester hours. Normally offered alternate years, days or evenings.*

Biology 217 — Vertebrate Biology. Comparative look at diverse aspects of vertebrates including anatomy, physiology and natural history. Evolution in vertebrates as discussed in the context of phylogenetic relationships and ecological adaptation. *Prerequisite: Biology 114.* 3 hours lecture. *1 term — 3 semester hours. Normally offered alternate years, days only.*

Biology L217 — Vertebrate Biology Laboratory. Practical involvement with the principles discussed in lecture, using New England vertebrates as examples. Includes both laboratory and field experiences. 6 hours laboratory. *1 term — 1 semester hour.*

Biology 223 — Non-Vascular Plants. Survey of algae, fungi, mosses and related "lower" plant groups. *Prerequisite: Biology 113.* 3 hours lecture. *1 term — 3 semester hours. Normally offered alternate years.*

Biology L223 — Non-Vascular Plants Laboratory. Examination of prepared, fresh and collected materials and cultures. 3 hours laboratory. *1 term — 1 semester hour. Normally offered alternate years.*

Biology 224 — Vascular Plants. Introduction to the principles of classification, identification and nomenclature of the ferns, fern allies, gymnosperms and the angiosperms. Discussion emphasizes the techniques used by modern systemicists to elucidate phylogenetic relationships and taxonomic groups. *Prerequisite: Biology 113.* 3 hours lecture. *1 term — 3 semester hours. Normally offered alternate years.*

Biology L224 — Vascular Plants Laboratory. Emphasis is on herbarium and collecting techniques and the identification of common New England species. 3 hours laboratory. *1 term — 1 semester hour. Normally offered alternate years.*

Biology 253 — Marine Botany. Biology and distribution of marine plants, with special emphasis on the taxonomy, morphology and life history of algae; dune, salt marsh and mangrove associations; intertidal zonation. *Prerequisite: Biology 113 or equivalent.* 3 hours lecture. *1 term — 3 semester hours. Normally offered summers at the Friedman Laboratory.*

Biology L253 — Marine Botany Laboratory. Culture techniques; herbarium techniques; classification and identification of local marine algae; field trips to local habitats. 3 hours laboratory. *1 term — 3 semester hours.*

Biology 254 — Marine Biology. Introduction to the marine environment, its organisms, and their specific adaptations. Emphasis on marine and estuarine ecology; intertidal habitats, trophic relationships, and reproduction. Human impacts on the sea; fisheries, mariculture, pollution, law of the sea. *Prerequisite: Biology 113, 114. 3 hours lecture. 1 term — 3 semester hours. Alternate years days and evenings.*

Biology L254 — Marine Biology Laboratory. Field trips to local marine environments; field and laboratory observations of marine organisms. 3 hours laboratory. *1 term — 1 semester hour.*

Biology 273 — Biometrics. Introduction to the application of statistical methods for the evaluation of biological problems. Sampling, confidence intervals, regression, testing hypotheses, experimental design and analysis of variance. Strongly recommended for those planning to enroll in Biology 274. *Prerequisite: Biology 101.* 3 hours lecture. *1 term — 3 semester hours. Days or evenings.*

Biology L273 — Biometrics Laboratory. Primarily deals with problem solving using biological data. Experimentation in sampling random and non-random populations. 3 hours laboratory. *1 term — 1 semester hour. Days or evenings.*

Biology 274 — Genetics. The principles of genetic variation as revealed in prokaryotes and eukaryotes. Topics include cytological and molecular basis of heredity, non-nuclear genes, determination and differentiation of sex, population gene frequencies and mating systems. *Prerequisite: Biology 101 or equivalent.* 3 hours lecture. *1 term — 3 semester hours. Days or evenings.*

Biology L274 — Genetics Laboratory. Experiments designed to demonstrate those principles presented in lecture using organisms such as bacteria, molds and *Drosophila.* Some simulations with microcomputers. 3 hours laboratory. *1 term —1 semester hour. Days or evenings.*

Biology 275 — Immunology. Study of the vertebrate animal response to the introduction of foreign particles into the body. Practical and theoretical topics are considered. *Prerequisite: Biology 114 and Chemistry 211.* 3 hours lecture. *1 term — 3 semester hours.*

Biology L275 — Immunology Laboratory. Laboratory experiments designed to acquaint the student with applied aspects of immunology. 3 hours laboratory. *1 term — 1 semester hour.*

Biology 277 — Vertebrate Histology. Introduction to the microscopic and submicroscopic structure of vertebrate tissues and cells. Relationships between structures and physiological processes at the organ, tissue, cell and organelle level are emphasized. *Prerequisite: Biology 114.* 3 hours lecture. *1 term — 3 semester hours. Days or evenings.*

Biology L277 — Vertebrate Histology Laboratory. Examination of vertebrate cells, tissues and organ systems under the light microscope. Precise identification of a variety of tissues with a description of each in terms of its microscopic structure and its physiological role. 3 hours laboratory. *1 term — 1 semester hour. Days or evenings.*

Biology 303 — Plant Anatomy. Discussion of plants as related to the development, form, function and evolution of plant cells, tissues and organs. *Prerequisite: Biology 224.* 3 hours lecture. *1 term — 3 semester hours.*

Biology L303 — Plant Anatomy Laboratory. Examination of selected prepared material and some fresh specimens to correlate with structures and species discussed in lecture. 3 hours laboratory. *1 term — 1 semester hour.*

Biology 333 — Ecology. Basic principles of population biology, community ecology and ecosystem structure; evolutionary theory. *Prerequisite: Biology 113, 114.* 3 hours lecture. *1 term — 3 semester hours. Alternate years, days only.*

Biology L333 — Ecology Laboratory. Field and laboratory experience in ecosystem structures; data collection, synthesis and report preparation. 3 hours laboratory or field trips. *1 term — 1 semester hour. Alternate years, days only.*

Biology 355 — Invertebrate Zoology. A survey of the invertebrate phyla with special emphasis on marine forms; emphasis on morphology, development and classification, phylogeny and ecology. *Prerequisite: Biology 114 or equivalent.* 3 hours lecture. *1 term — 3 semester hours. Alternate years, days only.*

Biology 376 — Parasitology. The relationship of parasitic organisms to the Animal Kingdom in health and disease. Life histories, systematics and ecology of protozoan, helminth and anthropod parasites. *Prerequisite: Biology 101.* May be taken for undergraduate or graduate credit. Graduate students required to complete special research projects. 3 hours lecture. *1 term — 3 semester hours. Days or evenings.*

Biology L376 — Parasitology Laboratory. Examination and identification of parasitic species utilizing prepared slides and specimens. Attention given to preserved and fresh material for the purpose of the identification of parasites throughout the various stages of their life cycles. 3 hours laboratory. *1 term — 1 semester hour. Days or evenings.*

Biology 385 — Pathogenic and Advanced Microbiology. Study of the microorganisms which cause disease. Pathogenesis, the host-parasite relationship, epidemiology and public health aspects are stressed. Advanced topics in general microbiology and molecular biology are also covered. *Prerequisites: Biology 375 and L375. 3 hours lecture. 1 term — 3 semester hours.*

Biology L385 — Pathogenic and Advanced Microbiology Laboratory. The isolation and cultivation of microorganisms, advanced general microbiology and molecular biology. Experience in preparation of media, chemicals and culture is provided. *3 hours laboratory; 1 term — 1 semester hour.*

Biology 403 — Cellular Physiology. Topics such as cell chemistry, cell regulation, gene action and structure and function of cell components. Experimental protocols will be emphasized. *Prerequisites: Chem 211, Biology 113, 114.* 3 hours lecture. *1 term — 3 semester hours.*

Biology L403 — Cellular Physiology Laboratory. Techniques of differential centrifugation, radioisotopic tracers, chromatography, electrophoresis and use of the physiograph will be covered. 3 hours laboratory. *1 term — 3 semester hours.*

Biology 404 — Animal Physiology. Basic physiological processes of vertebrates and invertebrates; metabolism, thermal and osmotic regulation, respiration, excretion, neurobiology, sense organs; physiological ecology. 3 hours lecture. *1 term — 3 semester hours.*

Biology L404 — Animal Physiology Laboratory. Selected physiological mechanisms, as displayed by invertebrate and vertebrate organisms, are assessed using laboratory equipment designed to detect and trace metabolic pathways. 3 hours laboratory. *1 term — 1 semester hour.*

Biology 409 — Biology Seminar. A seminar required of many biology majors as seniors. Library search of the scientific literature, a formal presentation and a term paper on a biological topic are required. 1 hour seminar. *1 term — 1 semester hour.*

Biology 414 — Plant Physiology. The physiology of vascular plants including water relations, photosynthesis, biochemistry, hormones, photoperiodism and flowering. Relevant experimental works will be emphasized. *Prerequisites: Biology 113, 114, and Chem 211.* 3 hours lecture. *1 term — 3 semester hours. Alternate years.*

Biology L414 — Plant Physiology Laboratory. Experiments emphasizing the principles covered in Biology 414 lecture. 3 hours laboratory. *1 term — 1 semester hour. Alternate years.*

Biology H419 — Biology Honors. Outstanding biology majors may be invited by the faculty to participate in Biology Honors. An original research project is required to be accompanied by a literature search and presentation of a paper at a societal meeting. 1 hour seminar. *2 terms — 2 semester hours.*

Biology 479 — Technology Seminar. A seminar required of all Technology students as juniors. An oral presentation based on library research and a term paper are required. Hospital or agency admission procedures are discussed. 1 hour seminar. *1 term — 1 semester hour.*

Biology 599 — Directed Study. Student projects may be initiated by a student or faculty member with approval of the Chairperson. A written proposal which must have majority approval of the Biology faculty is required prior to enrolling. A paper and oral report are required. *Prerequisites: Advanced Biology standing, instructor's consent, approval of a majority of the Biology faculty and signature of the Department Chairperson. 1 term — 3-4 semester hours.*

Chemistry

Department of Chemistry

Professors: Bonaventura, Good (Chairman), Ronayne.
Associate Professors: Lewis, Patterson, Richmond
Lecturers: Crandlemere, Curtin, Parks.

The Department of Chemistry offers four major degree programs leading to a B.S. or B.A. in either CHEMISTRY or BIOCHEMISTRY. Students who elect chemistry as their area of concentration may choose to follow the flexible and traditional Chemistry program or the more structured interdisciplinary programs in Chemistry-Computer Science, Chemistry-Business, and Biochemistry. Since the recommended course of study for the Freshman year is essentially the same for all of the programs, decisions regarding specific curricular options can be postponed at least until the Sophomore year. Nevertheless, students are urged to consult with the Chemistry Department Chairperson as early as possible to discuss their professional objectives and options.

To earn a bachelor's degree in Chemistry or Biochemistry requires the satisfactory completion of (1) prescribed core courses in the major and related areas, (2) the liberal arts requirements for the B.S. or B.A. degree common to all undergraduates in the College of Liberal Arts and Sciences,* (3) complementary electives in the major and related areas, and (4) free electives.

The complementary major requirements for the degree in chemistry-computer science are those for the degree in chemistry with the exception of Chem 4.3 and the addition of:

Computer Science 132 — Computer Programming II
Computer Science 253 — Introduction to Computer Organization
or Physics 351 — Microprocessors I
Computer Science 265 — Data Structures and Algorithms plus two courses in Computer Science approved by the Chemistry Department, chosen from Computer Science 255, 263, 333, 355, 365, 368, 376, 466 and Physics 352.
Computer Science 255 — Computer Organization
Computer Science 263 — File Processing
Computer Science 333 — Organization of Programming Languages
Computer Science 355 — Operating Systems and Computer Architecture
Computer Science 365 — Networks
Computer Science 368 — Software Engineering
Computer Science 376 — Computer Graphics
Computer Science 466 — Device Drivers

Physics 352 — Microprocessors II are necessary to give the student a sufficiently broad base in a computer-related specialization with sufficient flexibility to allow the student to pursue modern applications in software or hardware. Department advice and permission are required.

Many of the courses required for the Chemistry programs are not offered every year in the Evening Division. Evening students may avoid unnecessary delays in completing the degree requirements by prior consultation with the Chemistry Department Chairperson. Only a limited major in Biochemistry is available in the Evening Division.

Transfer students wishing to major in Chemistry or Biochemistry must successfully complete a minimum of 12 semester hours in the major at Suffolk University.

The Department of Chemistry has been approved by the Committee on Professional Training of the American Chemical Society.

**It is difficult to particularize which degree is preferable for Chemistry and Biochemistry majors. Chemistry and Biochemistry students are advised to compare the requirements of each and consult the Department Chairperson if necessary.*

Curricula in Chemistry

Chemistry Program The curricula for the B.S. and B.A. degree in Chemistry satisfy the requirements for certification by the American Chemical Society. Both degree programs are recommended for those planning research careers and/or graduate study in chemistry.

In accordance with the guidelines established by the American Chemical Society, it is recommended that Chemistry majors acquire a reading knowledge of German.

Individualized programs of study, appropriate to students' interests and specialized career objectives, may be designed. Careers in non-traditional areas which may be pursued with a degree in chemistry, some of which may require graduate study, include science writing, environmental science, forensic chemistry, information and computer sciences, chemical business, and patent law.

Core Requirements:

Chemistry 111-112, L111-L112, 211-212, L211-L212, 313, 314, 411-412, L411-L412, 423, 425 or 426, 429

Computer Science 131

Mathematics 161-162, 261-262

Physics 151-152, L151-L152

The recommended course sequence leading to the B.S. degree is outlined below.

Freshman	Sem. Hrs.
Chemistry 111-112, L111-L112	8
Computer Science 131	3
Mathematics 161-162	6
English 101-102	6
Freshman Integrated Studies	6
	29

Sophomore	Sem. Hrs.
Chemistry 211-212, L211-L212	8
Physics 151-152, L151-L152	8
Second Year English	6
Speech/Logic	6
Free Elective	3
	31

Junior	Sem. Hrs.
Chemistry 313	1
Chemistry 314	4
Chemistry 411-412, L411-L412	8
Mathematics 261-262	6
Humanities Option	3
Social Science Option	3
Free Electives	6
	31

Senior	Sem. Hrs.
Chemistry 423	3
Chemistry 425 or 426	3
Chemistry 429	3
Chemistry Elective	4
Humanities Option	6
Social Science Option	6
Free Electives	6
	31

Chemistry-Computer Science Program The Chemistry-Computer Science program adds an integral interdisciplinary dimension to the undergraduate study of chemistry. Reflecting the increasing importance of computer science expertise in technological endeavors, particularly with regard to the application of programming skills to chemical instrumentation and analysis, the program should provide expanded career opportunities for Chemistry majors whether their goal is job placement or graduate study.

Program Requirements:

Core requirements in Chemistry, Computer Science, Mathematics, and Physics. *In addition,* Computer Science 132, 253 (or Physics 351), 333 and six hours of Computer Science electives approved by the Department of Chemistry.

The recommended course sequence leading to the B.S. degree is outlined below.

Freshman	Sem. Hrs.
Chemistry 111-112, L111-L112	8
Computer Science 131	3
Mathematics 161-162	6
English 101-102	6
Freshman Integrated Studies	6
	29

Sophomore	Sem. Hrs.
Chemistry 211-212, L211-L212	8
Computer Science 132	3
Physics 151-152, L151-L152	8
Second Year English	6
Speech/Logic	6
	31

Junior	Sem. Hrs.
Chemistry 313	1
Chemistry 314	4
Chemistry 411-412, L411-L412	8
Computer Science 253	3
Computer Science Elective	3
Mathematics 261-262	6
Humanities Option	3
Social Science Option	3
	31

Senior	Sem. Hrs.
Chemistry 423	3
Chemistry 425 or 426	3
Chemistry 429	1
Computer Science 333	3
Computer Science Elective	3
Humanities Option	6
Social Science Option	6
Free Electives	6
	31

Chemistry-Business Program

The Chemistry-Business program combines the traditional undergraduate Chemistry curriculum with basic foundation courses in business. It is intended for those students interested in pursuing careers in the sales, management, marketing or production aspects of the chemical and allied chemical industries. Since the business component is included without compromising the requisite professional preparation in chemistry, the student is not limited with regard to graduate study in either chemistry or business.

Program Requirements:

Core requirements in Chemistry, Computer Science, Mathematics, and Physics with the exception of Chemistry 423 and 425 and Mathematics 262. *In addition*, Mathematics 113, Economics 213-214, Accounting 211-212, Business Law 211, Finance 310, Management 310, Marketing 310.

The recommended course sequence leading to the B.S. degree is outlined below.

Freshman	Sem. Hrs.
Chemistry 111-112, L111-L112	8
Computer Science 131	3
Mathematics 161-162	6
English 101-102	6
Freshman Integrated Studies	6
	29

Sophomore	Sem. Hrs.
Chemistry 211-212, L211-L212	8
Mathematics 113	3
Physics 151-152, L151-L152	8
Second Year English	6
Speech/Logic	6
	31

Junior	Sem. Hrs.
Chemistry 313	1
Chemistry 314	4
Chemistry 411-412, L411-L412	8
Mathematics 261	3
Accounting 211-212	6
Economics 213-214*	6
Humanities Option	3
	31

Senior	Sem. Hrs.
Chemistry 429	1
Chemistry Elective	3
Business Law 211	3
Finance 310	3
Humanities Option	6
Management 310	3
Marketing 310	3
Social Science Option	3
Free Electives	6
	31

**May be used in partial fulfillment of the Social Science Option.*

Curriculum in Biochemistry

Biochemistry Program The program in Biochemistry is based on curriculum interaction between the disciplines of Chemistry and Biology. Since the areas of concentration are broadened and well-integrated, several career options are possible upon successful completion of the program. It is recommended particularly for those planning careers in allied health areas, including clinical chemistry; graduate study in biochemistry, pharmacology or toxicology; and pre-professional study for medicine or dentistry.

Core Requirements:

Chemistry 111-112, L111-L112, 211-212, L211-L212, 313, 314, 331-332, L331-L332, 411-412, L411-L412, 429, 433

Biology 101, L101 and two of the following: 274, L274; 277, L277; 275, L275; 375, L375; 403, L403

Computer Science 131

Mathematics 161-162

Physics 151-152, L151-L152

The recommended course sequence leading to the B.S. degree is outlined below.

Freshman	Sem. Hrs.
Chemistry 111-112, L111-L112	8
Biology 101, L101	4
Mathematics 161-162	6
English 101-102	6
Freshman Integrated Studies	6
	30

Sophomore	Sem. Hrs.
Chemistry 211-212, L211-L212	8
Computer Science 131	3
Physics 151-152, L151-L152	8
Second Year English	6
Speech/Logic	6
	31

Junior	Sem. Hrs.
Chemistry 313	1
Chemistry 314	4
Chemistry 331-332, L331-L332	8
Biology Electives*	8
Humanities Option	3
Social Science Option	3
Free Elective	3
	30

Senior	Sem. Hrs.
Chemistry 411-412, L411-L412	8
Chemistry 429	1
Chemistry 433	4
Humanities Option	6
Social Science Option	6
Free Electives	6
	31

**Must be chosen from the following: Biology 274, L274; 277, L277; 275, L275; 375, L375; 403, L403.*

Chemistry Courses Chemistry courses must be taken simultaneously with their respective laboratories unless otherwise noted or waived by the Chemistry Department Chairperson. This does not apply if the laboratory has previously been completed satisfactorily.

Chemistry 423, 425, 426, 433 and 553 may be taken for graduate credit subject to the approval of the Chemistry Department Chairman and course Instructor.

Chemistry 111-112 — General Chemistry. Fundamental principles of chemistry are discussed. Topics include introductions to atomic structure, periodic table, nature of chemical bonds, stoichiometry, gas laws, solutions, acid-base systems, chemical equilibria, thermodynamics, electrochemistry, kinetics, and chemistry of selected elements. 3 hours lecture. *Prerequisite: High school chemistry. 2 terms — 6 semester hours. Normally offered yearly, days only.*

Chemistry L111-L112 — General Chemistry Laboratory. The basic principles of chemistry illustrated through laboratory investigation. Qualitative and quantitative analysis, particularly volumetric methods, are emphasized. 1 hour lecture, 3 hour laboratory. *Concurrent enrollment in Chemistry 111-112 required. 2 terms — 2 semester hours. Normally offered yearly, days only.*

Chemistry 211-212 — Organic Chemistry. The essential chemistry of functional groups and basic theories as applied to the study of organic compounds. Mechanistic studies, stereochemistry, and the relationship of spectroscopy to structure. 3 hours lecture. *Prerequisite: Chemistry 112. 2 terms — 6 semester hours. Normally offered yearly, days and evenings.*

Chemistry L211-L212 — Organic Chemistry Laboratory. Laboratory exercises consisting of techniques of separation and purification, including chromatographic methods; synthesis and spectroscopic characterization of organic compounds; reactivity studies. 4-hour laboratory. *2 terms — 2 semester hours. Normally offered yearly, days and evenings.*

Chemistry 313 — Chemical Literature. A thorough introduction to the chemical literature; practice in searching the literature; writing and presenting a scientific paper. 1 hour lecture-discussion. *Prerequisite: Chemistry 212 or Instructor's permission. 1 term — 1 semester hour. Normally offered yearly, days or evenings.*

Chemistry 314 — Instrumental Analysis. Theory and application of analytical instruments: ultraviolet, visible, fluorescence, atomic, and emission spectroscopy; chromatography; voltammetry; potentiometric and conductometric measurements; computer applications. 3 hours lecture, 4-hour laboratory. *Prerequisite: Chemistry 112. 1 term — 4 semester hours. Normally offered yearly, days or evenings.*

Chemistry 331-332 — Biochemistry. The chemistry of amino acids, proteins, lipids, carbohydrates, and nucleic acids. Emphasis is on structure and function of biomolecules and intermediary metabolism. 3 hours lecture. *Prerequisite: Chemistry 212. 2 terms — 6 semester hours. Normally offered yearly, days or evenings.*

Chemistry L331-L332 — Biochemistry Laboratory. Exercises emphasizing the equipment and methodology of biochemical experimentation. Exercises may cover such topics as metabolism, electrophoresis of biological materials, isotope tracer techniques and enzyme kinetics. 4-hour laboratory. *Concurrent enrollment in Chemistry 331-332 required. 2 terms — 2 semester hours. Normally offered yearly, days only.*

Chemistry 353 — Instrumental Electronics. Basic theories of electronics and their application to instruments in the modern laboratory. Emphasis is on developing insight into the functioning of instruments including trouble-shooting techniques. 3 hours lecture. 4-hour laboratory. *Prerequisites: Physics 152, Mathematics 162. 1 term — 4 semester hours. Normally offered alternate years, days or evenings.*

Chemistry 355 — Environmental Chemistry. A study of the chemical basis of environmental problems. Topics include aquatic chemistry, air pollution, and the interaction between chemical and biological systems. 3 hours lecture. *Prerequisite: Chemistry 112. Chemistry 314 is recommended. 1 term — 3 semester hours. Normally offered every third year, evenings only.*

Chemistry 411-412 — Physical Chemistry. Thermodynamics and its applications to physical and chemical equilibria; introduction to the kinetic theory of gases and concepts of statistical mechanics; chemical kinetics; electrochemistry; and introductory quantum chemistry. 3 hours lecture. *Prerequisites: Chemistry 112, Mathematics 162, Physics 152. 2 terms — 6 semester hours. Normally offered yearly, days or evenings.*

Chemistry L411-L412 — Physical Chemistry Laboratory. Laboratory exercises of classical and modern experiments in physical chemistry. 4-hour laboratory. *Concurrent enrollment in Chemistry 411-412 required. 2 terms — 2 semester hours. Normally offered yearly, days or evenings.*

Chemistry 423 — Advanced Physical Chemistry. Quantum chemistry and its applications to molecular bonding and spectroscopy. 3 hours lecture. *Prerequisite: Chemistry 412. 1 term — 3 semester hours. Normally offered yearly, days or evenings.*

Chemistry 425 — Inorganic Chemistry. Introduction to the concepts and chemical systems of inorganic chemistry including the periodic properties, molecular structure and bonding, inorganic crystals, and descriptive chemistry of the non-transition elements. 3 hours lecture. *Prerequisites: Chemistry 212, 412. 1 term — 3 semester hours. Normally offered alternate years, evenings only.*

Chemistry 426 — Inorganic Chemistry. Chemistry of transition metal complexes illustrated through lecture and laboratory. Topics include bonding theories, stereochemistry, preparation of complexes, complex ion stability, kinetics and mechanisms of reactions of complexes, and spectroscopy. 2 hours lecture, 3-hour laboratory. *Prerequisites: Chemistry 212, 412. 1 term — 3 semester hours. Normally offered alternate years, evenings only.*

Chemistry 429 — Research and Seminar. Independent study under the direct supervision of the Chemistry Department faculty. Students are required to attend departmental seminars, present a seminar, and submit a written report on their investigation. *Prerequisite: Chemistry 313. 1 - 4 semester hours. Normally offered yearly, days only.*

Chemistry 433 — Advanced Biochemistry. Specialized topics are examined in an intensive laboratory, lecture-seminar format. Students are expected to conduct laboratory work on an independent basis. Topics may include enzyme purification, bacterial transformation, protein synthesis and photosynthesis. 2 hours lecture, 6 hours laboratory. *Prerequisites: Chemistry 332, L332. 1 term — 4 semester hours. Normally offered yearly, days only.*

Chemistry 553 — Introduction to Toxicology. The study of harmful actions of chemicals on biological systems, with discussion of general principles, methodology, and selected topics. Topics may include pesticides, food additives, carcinogenesis and teratogenesis. 3 hours lecture. *Prerequisites: Chemistry 212 and Biology 101 or equivalent. 1 term — 3 semester hours. Normally offered alternate years, evenings only.*

Communications and Speech

Department of Communications and Speech

Professor: Strain
Associate Professor: Harris (Chairman)
Assistant Professors: : Boone, Plotkins, Rosenthal
Instructor: Greeley
Lecturers: Egan, Greenberg, Phillips, Sullivan

Requirements for the major in Communications and Speech consist of 30 semester hours plus 12 additional hours of complementary requirements. All majors must take C.Sp. 405 — Communications Theory and C.Sp. 409 — Research Methods in Communication. In addition, each major must declare by the end of his/her sophomore year (prior to the completion of 60 semester hours) or upon transfer to the major, an area of concentration within the major. Twelve semester hours of coursework is required in each track. An additional twelve semester hours must be chosen from other Departmental offerings (excluding C.Sp. 103 — Rhetorical Communications).

Areas of Concentration

Track 1: Argumentation (Argumentation, Advanced Argumentation, Persuasion, Legal Communication, Propaganda)

Track 2: Forensics (Forensics, Advanced Forensics, Advanced Public Speaking, Speech Writing, Coaching and Directing Forensics)

Track 3: Mass Communication (REQUIRES CROSS REGISTRATION WITH EMERSON COLLEGE) (Intro to Mass Comm., plus *three* other courses as approved by the Department Chairperson of Communications and Speech of Suffolk University from relevant Emerson College offerings)

Track 4: Oral Interpretation (Oral Interp., Acting, Voice and Articulation, Readers' Theater)

Track 5: Communication Disorders (REQUIRES CROSS REGISTRATION WITH EMERSON COLLEGE) (4 courses as approved by the Department Chairperson of Communications and Speech of Suffolk University from relevant Emerson College offerings)

Track 6: Organizational Communication (Business and Professional Speaking, Consulting, Organizational Communication, Decision Making)

Track 7: Rhetorical Criticism (Rhetoric and Popular Culture, Rhetorical Theory, Criticism of American Public Address, Political Rhetoric)

All students majoring in Communications and Speech must have their programs approved by an advisor from the department and thereafter keep in close touch with the department in respect to their programs.

Communications and Speech Courses

Communications and Speech 103 — Rhetorical Communication. The development, delivery, and analysis of rhetorical messages. Stress on broad theories of rhetorical analysis in a historical context and pragmatic experience in delivering oral messages. Satisfies College of Liberal Arts and Sciences Rhetoric Requirement. *1 term — 3 semester hours. Normally offered every semester.*

Communications and Speech 115 — Public Speaking. Practical training in analyzing, organizing, adapting, and delivering ideas by public speaking. Students deliver original speeches (informative, persuasive, impromptu, et al) in class. *1 term — 3 semester hours. Normally offered every semester.*

Communications and Speech 119 — Voice and Articulation. Provides the student with knowledge of the mechanics of voice production, and develops control in pitch, volume and quality. *1 term — 3 semester hours. Normally offered every semester.*

Communications and Speech 215 — Discussion. Increases proficiency in public discussion and conference groups by examining group processes and behavior, agenda development, leadership, and reflective thinking. *1 term — 3 semester hours. Normally offered yearly.*

Communications and Speech 219 — Interviews and Non-Verbal Communication. Principles of communication applicable to interview situations in business and the professions. Role-playing exercises explore the relationship in an interview between information giving and nonverbal behavior. *1 term — 3 semester hours. Normally offered yearly.*

Communications and Speech 225 — Theater Arts. Fundamentals of theatrical experience by lecture, discussion, and demonstration. Emphasizes analysis of script and production. Attendance at Suffolk University-sponsored productions may be required. *1 term — 3 semester hours. Normally offered yearly.*

Communications and Speech 229 — Acting I. Fundamentals of acting. Emphasis on development of the actor's inner resources, sensitivity, and imagination. Theater games, physical exercises, and improvisations are used to remove barriers to the actor's means of expression. *1 term — 3 semester hours. Normally offered yearly.*

Communications and Speech 235 — Argumentation. Projects in analysis, research evidence, briefing, refutation, and delivery of debates on representative questions. *1 term — 3 semester hours. Normally offered yearly.*

Communications and Speech 245 — Forensics. Intensive research on topics in debate and active participation in the University forensics program. *Prerequisite: Instructor's consent. 1 term — 3 semester hours. Normally offered yearly.*

Communications and Speech 255 — Mass Communications. Historical, political, and social backgrounds of the mass media, with emphasis on the oral aspects of mass communications. *1 term — 3 semester hours. Normally offered yearly.*

Communications and Speech 265 — Oral Interpretation. Designed to develop the expressive powers of the student through oral interpretation of literature. Analyzing and responding to the author's meaning, and communicating that meaning to the audience. *Prerequisite: C.Sp. 119. 1 term — 3 semester hours. Normally offered yearly.*

Communications and Speech 275 — Business and Professional Communication. Examines communication functions and problems within a business and professional context. Sales speeches, technical presentation, conference management, resume writing, business interviews, and other types of business communication. *1 term — 3 semester hours. Normally offered every other year.*

Communications and Speech 285 — Rhetoric and Popular Culture. Examines the applications of rhetorical theories to everyday situations. Music, politics, and popular literature are discussed in terms of their persuasive impact as a rhetorical force. *1 term — 3 semester hours. Normally offered every other year.*

Communications and Speech 327 — Theater Workshop. Detailed study of a play through preparing it for full-scale production. Acting, directing, producing, and designing, to be coordinated with the drama club productions whenever possible. *Prerequisites: C.Sp. 225, C.Sp. 227. 1 term — 3 semester hours. Normally offered yearly.*

Communications and Speech 329 — Acting II. A continuation of Acting I, creating a character, script study, development of role, and application of improvisation to the rehearsal process. *Prerequisites: C.Sp. 119, C.Sp. 229. 1 term — 3 semester hours. Normally offered every other year.*

Communications and Speech 335 — Persuasion. Analysis of persuasive techniques, particularly those used by communicators in their attempt to gain public acceptance. *1 term — 3 semester hours. Normally offered yearly.*

Communications and Speech 345 — Advanced Forensic Activities. Opportunities for advanced students to conduct intensive research in advanced debate theory. Extensive participation is required in the University forensics program. *Prerequisite: Instructor's consent. 1 term — 3 semester hours. Normally offered yearly.*

Communications and Speech 349 — Advanced Public Speaking. Further application of theory and techniques acquired in Speech 115. Emphasis on effective delivery, longer speeches and class discussion. *Prerequisite: C.Sp. 115. 1 term — 3 semester hours. Normally offered yearly.*

Communications and Speech 375 — Organizational Communication. Historical development of the theory of organizations, examination of information flow, network analysis, communication overload and underload, decision making, superior-subordinate communications, organizational effectiveness, and change processes. *1 term — 3 semester hours. Normally offered every other year.*

Communications and Speech 385 — Rhetorical Theory. Methods of critical evaluation of significant speeches past and present. Rhetorical, literary, historical, linguistic and quantitative methods of criticism will be analyzed. *1 term — 3 semester hours. Normally offered yearly.*

Communications and Speech 405 — Communication Theory. An interdisciplinary overview of communication theories from the perspective of the scientist, the psychologist, the philosopher, the sociologist, and others. Major issues in communication, such as motivation, perception, reasoning, and organizational behavior. *Prerequisite: 9 semester hours in Communications and Speech. 1 term — 3 semester hours. Normally offered yearly.*

Communications and Speech 409 — Research Methods. An analysis of the methods used in communication research. Emphasis is on understanding and application of experimental, descriptive, and historical critical research methods. *Prerequisite: 9 semester hours in Communications and Speech. 1 term — 3 semester hours. Normally offered yearly.*

Communications and Speech 425 — Directing. Procedures and principles of play direction coupled with several laboratory experiences. Script analysis, production coordination, actor-director relationships, and stylistic methods. *Prerequisites: C.Sp. 225 and C.Sp. 227. 1 term — 3 semester hours. Normally offered yearly.*

Communications and Speech 429 — Advanced Theater Workshop. Detailed study of plays through preparation of performance. Advanced work and assistance with University theater productions. *Prerequisite: C.Sp. 225. 1 term — 3 semester hours. Normally offered yearly.*

Communications and Speech 435 — Advanced Argumentation. Theoretical foundations and development of argumentation in contemporary society. Conceptual and experimental literature relevant to the use of evidence and philosophical problems in debate. *Prerequisite: C.Sp. 235. 1 term — 3 semester hours. Normally offered every other year.*

Communications and Speech 437 — Propaganda. An overview of various techniques used to influence and control human behavior as expressed by theorists from Machiavelli to Mao. *1 term — 3 semester hours. Normally offered every other year.*

Communications and Speech 439 — Legal Communication. The communicative situation in the courtroom. Description and practice of techniques of legal communication such as cross examination. Students engage in mock trial situations to gain practical experience. *1 term — 3 semester hours. Normally offered every year.*

Communications and Speech 449 — Speech Writing. Analysis and writing of principle types of basic speeches. Organizing, adapting and presenting informative and persuasive speeches, technical reports, and speech manuscripts for scholarly projects. Concern with legislative, legal, ceremonial, and other forms of speeches. *Prerequisite: C.Sp. 115. 1 term — 3 semester hours. Normally offered alternate years.*

Communications and Speech 465 — Readers' Theater. The course will concentrate on all aspects of Readers' Theater including compilation and adoption of a manuscript, and directing techniques for the students' final production. *Prerequisite: C.Sp. 265. 1 term — 3 semester hours. Normally offered alternate years.*

Communications and Speech 475 — Consulting. Develops skill in consulting practices and in critical assessments of research in consulting. Includes ethical considerations, contract negotiations, entry-level behavior with clients, communication instruments used for interventions, and evaluative procedures. *Prerequisites: C.Sp. 275 or 375. 1 term — 3 semester hours. Normally offered every other year.*

Communications and Speech 479 — Decision Making. Influence of communication on problem solving and decision making, for individuals, groups, and organizations. The student will apply a variety of problem solving and decision making techniques to case studies involving government and industry. *Prerequisites: C.Sp. 275 or C.Sp. 375. 1 term — 3 semester hours. Normally offered every other year.*

Communications and Speech 485 — American Public Address. Students are expected to analyze specific speeches of prominent Americans throughout history, employing the methods explored in the course. *1 term — 3 semester hours. Normally offered alternate years.*

Communications and Speech 489 — Political Rhetoric. Examination of the special circumstances created by politics and their impact on attempts at persuasion. Case studies of famous politicians and political speeches are combined with discussion of current political rhetorical trends. *1 term — 3 semester hours. Normally offered every other year.*

Communications and Speech 495 — Advanced Legal Communication. Detailed study of communication in the courtroom. Emphasis on presentation of opening statements and final summations through mock trial exercises. *Prerequisite: C.Sp. 439 or equivalent. 1 term — 3 semester hours. Normally offered every other year.*

Communications and Speech 503 — Independent Study. Academically qualified students in their junior or senior year may elect to undertake an in-depth research study in a specialized area of communications and theater. *Prerequisite: 12 semester hours in Communications and Speech and permission of the Departmental Chairperson. 1-2 terms — 3-6 semester hours. Normally offered yearly.*

Communications and Speech 505 — Internships. Students in their junior or senior year may elect to serve as interns in business, broadcasting, government, or some other formal organization. The internship must focus on some significant aspect of communication. *Prerequisite: 12 semester hours in Communications and Speech and permission of the Departmental Chairperson. 1-2 terms — 3-6 semester hours. Normally offered yearly.*

Suffolk University-Emerson College

Cross-Registration Program Since 1968, Suffolk University and Emerson College have offered an affiliated Cross-Registration Program which makes available to students of both institutions a greater variety of courses than would otherwise be possible. It is the student's responsibility to cross-register during the specified registration periods at Suffolk University and at Emerson College. Through this affiliation with Emerson College, students may take courses toward one of the following concentrations: Communication Disorders; Mass Communications; Film; Business and Industrial Communication; Dramatic Arts, Theater Education; Oral Interpretation; and Speech Education.

Suffolk students who are majoring in one of the speech or journalism areas may cross-register for courses at Emerson College as part of their normal course load. Providing they have completed the normal prerequisites, students may cross-register in most courses except those that are offered at the parent college.

To cross-register, Suffolk University students obtain a Cross-Registration Form from the Chairperson of the Department of Communications and Speech. Students are encouraged to consult in advance both with their Suffolk department advisor and an appropriate departmental faculty advisor at Emerson.

Walter M. Burse Forensic Society The Department of Communications and Speech sponsors and supervises the Walter M. Burse Forensic Society. The purpose of this organization is to help students develop and master techniques of argumentation and oral communication. After working on campus, members participate in intercollegiate debate and speech tournaments at other colleges and universities throughout the United States.

Each year, the Department of Communications and Speech sponsors a High School Debate Tournament, a Junior College and Speech Tournament, and a College Speech and Debate Tournament. Students also visit Norfolk Prison where they compete with the Norfolk Prison debate teams. Some students work with the prisoners as interns.

No previous debate or speech experience is required for membership in the Walter M. Burse Forensic Society. Any undergraduate student at Suffolk University is eligible. Suffolk is also a member of the National Forensic Society, Delta Sigma Rho-Tau Kappa Alpha.

Dramatic Arts The major in Dramatic Arts is a cooperative program of the Department of Communications and Speech and the Department of English. A student may elect either the B.A. or B.S. degree, and will be assigned an advisor from the Department of his/her intended concentration: from the Department of Communications and Speech if the concentration is in acting, directing or technical theatre and from the Department of English if the concentration is in dramatic literature.

A major in Dramatic Arts consists of 15 semester hours of Communications and Speech; 15 hours of English in addition to the required Freshman and Sophomore English requirements; and 12 hours of complementary requirements, half of which may be taken in the above-named Departments. Other courses recommended as complementary requirements are those in French, German or Spanish dramatic literature, in translation, offered by the Department of Humanities and Modern Languages. Dramatic Arts majors must take Masters of the Drama I and II, Introduction to Theatre Arts, and Acting I.

Dramatic Arts majors are encouraged to participate in all Suffolk Student Theatre programs and productions as well as working as production interns for Suffolk Theatre Company at Suffolk University, the oldest professional, non-profit university resident theatre in Boston.

Suffolk University Theatre Company The Department of Communications and Speech supervises and partially funds the Suffolk University Theatre Company, the only professional, non-profit university resident theatre in Boston. Using the 650 seat university theatre, the company provides the best of traditional theatre, a platform for new playwrights, and a center for the increased development and exposure of the performing arts in Massachusetts. These programs serve to strengthen the humanities offerings at the University by providing students, faculty, and staff the opportunity to view and directly participate in professional theatre.

Computer Science

Department of Computer Science

Computer Science Faculty:
Professors: Cohn, Ezust, Good, Hajj, W. Johnson, Myrvaagnes
Assistant Professors: Edwards, Garneau, Humphrey
Instructor: N. Dokos
Senior Lecturers: Blum, Majdalawieh, Takdjerad, Ziad

The Department of Mathematics and Computer Science offers major and minor programs in computer science. The major program in Computer Science can be used by students either to prepare for any of a wide variety of careers in science and industry or as a firm foundation for graduate study in Computer Science. The minor program is intended to provide expanded career options for those who prefer to major in another discipline.

The departments of Mathematics and Computer Science, Physics, and Sociology jointly offer two major programs: Airway Computer Science and Airway Electronic Systems. These two programs are based upon curriculum guidelines developed by the Federal Aviation Administration (FAA) and the University Aviation Association. For detailed descriptions of these programs see the Airway Science section of this catalog.

Computer Science Major A student majoring in computer science must successfully complete 30 hours in computer science as described below.

Major Course Requirements

Computer Science: (30 hours)
Computer Science 131-132 (Computer Programming I and II)
Computer Science 253 (Assembly Language and Computer Structure)
Computer Science 265 (Data Structures and Algorithms)
Computer Science 263 (File Processing)
Computer Science 333 (Organization of Programming Languages)
Computer Science 353 (Architecture of Computer Systems)
Computer Science 355 (Operating Systems)
Computer Science Elective Courses*

*Additional courses to make a total of at least 30 hours. These courses are normally chosen from Computer Science courses numbered 200 or higher. Not more than three hours may be in "language" courses. Physics 351 (Introduction to Microprocessors) and Physics 352 (Microprocessor Interfacing) are acceptable choices. Substitution of any other courses requires prior written approval by the Chair of the Department of Mathematics and Computer Science.

Complementary Major Requirements

Mathematics: (15 hours)
Mathematics 161-162, 261-262 (Calculus I, II, III, and IV)
Mathematics 281 (Discrete Mathematics I)

Physics: (12 hours)
Physics 151-152, L151-L152 (University Physics and Lab)
Either Physics 303 (Digital Electronics) or Physics 311 (Integrated Circuits I)

Note that three additional hours of course work in Mathematics (beyond the 200 level) would qualify a Computer Science major for a minor in Mathematics.

Computer Science Major

(Suggested Course Sequence)

Freshman	Sem. Hrs.
First-Year English	6
Integrated Studies	6
Mathematics 161-162	6
Physics 151-152 & L151-L152	8
Computer Science 131-132	6
	32

Sophomore	Sem. Hrs.
Second-Year English	6
Logic and Speech	6
Language (B.A.) or Humanities (B.S.)	6
Mathematics 261-262	6
Computer Science 253	3
Computer Science 265	3
	30

Junior	Sem. Hrs.
Social Sciences	6
Mathematics 281	3
Computer Science 263	3
Computer Science 333	3
Computer Science 353	3
Computer Science 355	3
Free Electives	9
	30

Senior	Sem. Hrs.
Humanities	3
Social Sciences	3
Physics 303 or 311	3
Computer Science Electives	6
Free Electives	15
	30

Computer Science Minor To qualify for a minor in Computer Science, a student must successfully complete 18 hours of course work in computer science distributed as follows:

Computer Science 131-132 (Computer Programming I and II)

Computer Science 253 (Assembly Language and Computer Structure) or Physics 351 (Introduction to Microprocessors)

Computer Science 265 (Data Structures and Algorithms)

Computer Science Elective Courses*

*Additional courses to make a total of at least 18 hours must be chosen from Computer Science courses numbered 200 or higher. Not more than three hours may be in "language" courses. Physics 351 (Introduction to Microprocessors) and Physics 352 (Microprocessor Interfacing) are acceptable choices. Substitution of any other courses requires prior written approval by the Chair of the Department of Mathematics and Computer Science.

Certificate Programs

Physical and Computer Science Applications

Life Studies and Computer Science Applications

Program Advisors:

Donald Cohn, Professor of Mathematics and Computer Science; Robert Garneau, Assistant Professor of Physics and Computer Science; William E. Good, Professor of Chemistry and Computer Science; Walter H. Johnson, Jr., Professor of Physics and Computer Science; Eric Myrvaagnes, Professor of Mathematics and Computer Science; Beatrice L. Snow, Professor of Biology.

In addition to the bachelor's degree programs mentioned above, there are two post-baccalaureate, non-degree programs which combine computer science applications with physical sciences and with life studies, respectively. BOTH CERTIFICATE PROGRAMS ARE RESTRICTED TO PERSONS WHO HAVE EARNED A BACHELOR'S DEGREE FROM AN ACCREDITED INSTITUTION. EACH PROGRAM MAY BE PURSUED ON A PART—TIME OR FULL—TIME BASIS.

These programs each provide a substantial introduction to computer science (equivalent to an undergraduate minor) along with supporting coursework in the physical or biological sciences. Both programs address the needs of college graduates who wish to enhance their career options by obtaining credentials in Computer Science.

Since diverse backgrounds are anticipated among the participants, individualized programs of study will be structured to achieve a coherent blend of previous academic experience and new course work. Each of the programs consist of eighteen hours of course work in Computer Science plus fourteen hours of work in the appropriate supporting scientific discipline. A maximum of eight

hours may be waived if a student passes a competency examination administered by the relevant department. If additional requirements have been met prior to entering one of these programs, a student may, with written approval of the Director of Academic Computing, make substitutions for those courses already taken by selecting courses from a list of approved electives. Certificates will be awarded to those students who complete the program requirements with a cumulative grade point average of 3.0 or better and who demonstrate, by means of a comprehensive examination, the attainment of a satisfactory level of competency in physical science or in life studies and in computer science.

Physical and Computer Science Applications

Course Requirements:

Mathematics: (6 hours)

Mathematics 161-162 (Calculus I and II)

Physical Sciences: (8 hours)

One selection from the following:

Chemistry 111-112, L111-L112 (General Chemistry and Lab)

Physics 151-152, L151-L152 (University Physics and Lab)

Computer Science: (18 hours)

Computer Science 131-132 (Computer Programming I and II)

Computer Science 253 (Assembly Language and Computer Structure) or Physics 351 (Introduction to Microprocessors)

Computer Science 265 (Data Structures and Algorithms)

Computer Science Elective Courses*

*Additional courses to make a total of at least 18 hours. These courses are normally chosen from Computer Science courses numbered 200 or higher. Not more than three hours may be in "language" courses. Physics 351 (Introduction to Microprocessors) and Physics 352 (Microprocessor Interfacing) are acceptable choices. Substitution of any other courses requires prior written approval by the Chair of the Department of Mathematics and Computer Science.

Life Studies and Computer Science Applications

Course Requirements:

Life Studies: (14 hours)

Biology 113, L113 (General Biology [Botany] and Lab)

Biology 114, L114 (General Biology [Zoology] and Lab)

Biology 273, L273 (Biometrics and Lab)

Science 599 (Special Topics)*

*Science 599 will be 2 hours of directed study in computer information retrieval systems in the life sciences.

Computer Science: (18 hours)

Computer Science 131-132 (Computer Programming I and II)

Computer Science 253 (Assembly Language and Computer Structure) or Physics 351 (Introduction to Microprocessors)

Computer Science 265 (Data Structures and Algorithms)

Computer Science Elective Courses*

*Additional courses to make a total of at least 18 hours. These courses are normally chosen from Computer Science courses numbered 200 or higher. Not more than three hours may be in "language" courses. Physics 351 (Introduction to Microprocessors) and Physics 352 (Microprocessor Interfacing) are acceptable choices. Substitution of any other courses requires prior written approval by the Chair of the Department of Mathematics and Computer Science.

Computer Science Courses

Computer Science 103 — Introduction to Computers. Intended to introduce non-science majors to the world of computers: what they are, how they work, and how to program them. The BASIC programming language is used. *Prerequisite: None. 1 term — 3 hours. Normally offered every semester.*

Computer Science 131-132 — Computer Programming I and II. This fundamental course sequence is designed to provide the background necessary for an understanding of computers and computer languages. Programming assignments in Pascal introduce the student to methods of problem solving, development of algorithms, designing, coding, debugging, and documenting programs. Topics include an overview of computer organization, sorting and searching, string processing, simple data structures, and files. Structured programming techniques are emphasized throughout. This course is a prerequisite for all advanced computer science courses. *Prerequisite: At least 3 years of high school mathematics. 2 terms — 6 hours. Normally offered each semester.*

Computer Science 221 — Topics in Assembly Language Programming. Assembly language programming on a computer other than those treated in Computer Science 253 and Physics 351. *Prerequisite: Computer Science 253 or Physics 351. 1 term — 1 hour. (Offered as the need arises.)*

Computer Science 222 — Programming in the C language. A brief introduction to the C language for students with a good knowledge of Pascal. *Prerequisite: At least one Computer Science course numbered 250 or higher. 1 term — 1 hour. Normally offered in alternate years.*

Computer Science 223 — LISP. An introduction to programming LISP. *Prerequisite: At least one Computer Science course numbered 250 or higher. 1 term — 1 hour. Normally offered in alternate years.*

Computer Science 224 — Concurrent Euclid. An extended discussion of the programming language Euclid intended primarily for students taking CMPSC 355. *Prerequisite: CMPSC 253. 1 term — 1 hour. Normally offered each year.*

Computer Science 225 — FORTRAN. An introduction to programming in FORTRAN. *Prerequisite: CMPSC 132 (or equivalent). 1 term — 1 hour. Normally offered each year.*

Computer Science 253 — Assembly Language and Computer Structure. Introduction to computer architecture and machine language programming, internal representation of data, and assembly language programming. *Prerequisite: Computer Science 132. 1 term — 3 hours. Normally offered each fall semester.*

Computer Science 263 — File Processing. Concepts and techniques of mass storage of data in computer systems and standard methods of accessing data are covered. Topics include sequential, direct, and keyed files, an overview of database management, file I/O, and algorithms for updating, sorting, searching, and cataloging files. *Prerequisite: Computer Science 132. 1 term — 3 hours. Normally offered each fall semester.*

Computer Science 265 — Data Structures and Algorithms. Includes topics such as stacks, queues, lists, trees, graphs, path finding algorithms, sorting, searching, merging, hashing, dynamic storage allocation. *Prerequisite: Computer Science 253 or Physics 351 or consent of instructor. 1 term — 3 hours. Normally offered each spring semester.*

Computer Science 333 — Organization of Programming Languages. An introduction to the organization and implementation of programming languages, with examples drawn from a number of important languages. *Prerequisites: Computer Science 253 (or Physics 351) and Computer Science 265. 1 term — 3 hours. Normally offered each spring semester.*

Computer Science 353 — Architecture of Computer Systems. This course deals with the structure and operation of the major hardware components of a computer. Topics include basic logic design, CPU construction, and computer architecture. *Prerequisites: Computer Science 253 (or Physics 351) and Computer Science 265. 1 term — 3 hours. Normally offered each spring semester.*

Computer Science 355 — Operating Systems. Concepts of operating systems and their relationship to computer architecture. Topics include scheduling, memory management, resource allocation, multiprogramming and concurrent processes. *Prerequisites: Computer Science 253 (or Physics 351) and Computer Science 265. 1 term — 3 hours. Normally offered each fall semester.*

Computer Science 365 — Computer Networks. Packet switching, network architecture, data link networks, transport session and protocols from physical to application layer and from local networks to satellite networks. Some standard protocols will be used as examples. *Prerequisites: Computer Science 253 (or Physics 351) and Computer Science 265. 1 term — 3 hours. Normally offered in alternate years.*

Computer Science 374 — Non-numeric and Symbolic Computation. An introduction to symbol manipulation and to programming in LISP. Applications in symbolic and discrete mathematics, text and natural language processing, and artificial intelligence are discussed. *Prerequisite: Computer Science 265. 1 term — 3 hours. Normally offered in alternate fall semesters.*

Computer Science 376 — Introduction to Computer Graphics. An introduction to standard graphics input and display devices and algorithms. Topics include graphics languages, geometric modeling, hidden-surface and shading algorithms, with applications in Computer Assisted Design. *Prerequisite: Computer Science 265. 1 term —3 hours. Normally offered in alternate fall semesters.*

Computer Science 393 — Special Topics in Computer Science. *Content, Prerequisites and hours to be announced.*

Computer Science 453 — Analysis of Algorithms. Basic principles of algorithm analysis. Topics to be chosen from techniques of efficient programming, string matching algorithms, graph algorithms, analysis of sorting and searching, matrix algorithms, integer and polynominal arithmetic, NP-hard and NP-complete problems. *Prerequisites: Computer Science 265, Mathematics 261, and Mathematics 281. 1 term — 3 hours. Normally offered in alternate years.*

Computer Science 463 — Formal Languages and Automata. Formal aspects of language: syntax, grammars, automata, Turing machines, computational complexity, computability, etc. *Prerequisites: Computer Science 132 and Mathematics 281. 1 term — 3 hours. Normally offered in alternate years.*

Computer Science 564-566 — Advanced Studies in Computer Science. Directed readings, lectures, seminars, and research in areas of special interest. *Content and hours to be arranged.*

Dramatic Arts

Co-Directors: Harris, Wilkins.

Advisory Committee: Sartwell (Chairperson), Harris, Weitz, Wilkins.

The major in Dramatic Arts is a cooperative program of the Departments of Communications and Speech, English, and Humanities and Modern Languages. Requirements for the major are 30 hours of work in approved courses from the English and Communications and Speech Departments, and 12 hours of complementary requirements, to be selected from listings maintained by the Departments, and furnished to students upon request. Within the Dramatic Arts program, students may concentrate in dramatic literature, or in acting, directing or technical theatre. A concentration in dramatic literature includes courses in classical British, and American drama, offered by the Department of English, and courses in European drama, offered by the Department of Humanities and Modern Languages. English 113-114, Masters of the Drama I and II, are required of all Dramatic Arts majors. The 12 hours of English required for all undergraduate degrees do not count as part of the Dramatic Arts major program. A concentration in acting, directing or technical theatre includes courses offered by the Department of Communications and Speech, which provide both theory and training in acting, directing, play production and stagecraft. Students will be assigned an advisor from the Department of their concentration.

Major Courses in Communications and Speech for Dramatic Arts

(See course descriptions in Communications and Speech section)

Communications and Speech 225 Theater Arts
Communications and Speech 327 Theater Workshop
Communications and Speech 265 Oral Interpretation
Communications and Speech 365 Oral Performance
Communications and Speech 229 Acting I
Communications and Speech 329 Acting II
Communications and Speech 469 Advanced Oral Interpretation
Communications and Speech 429 Advanced Theater Workshop
Communications and Speech 425 Directing
Communications and Speech 227 Play Production
Communications and Speech 325 Stagecraft
Communications and Speech 465 Readers' Theater

Major Courses in English for Dramatic Arts

(See course descriptions in English section)

English 324 Shakespeare's Comedies
English 326 Shakespeare's Tragedies
English 325 Shakespeare's Histories
English 315 Classical Drama
English 333 English Drama, 1590-1700
English 376 American Theater Today
English 375 American Musical Theater
English 368 Shaw and O'Neill
English 369 Modern British and American Drama
English 377 The World on Film
English 374 Drama Seminar

Major Courses in Humanities and Modern Languages

(See course descriptions in Humanities and Modern Languages)

French	320	French Classical Drama
French	324	Twentieth Century French Theater
German	501	Independent Study
Humanities	331	Mythology and its Sources
Spanish	403	Masterpieces of the Spanish Theater

Economics

Associate Professors: Tuerck (Chairperson), Shannon
Assistant Professors: Mohtadi, Sawhney
Senior Lecturer: Kenea
Lecturers: Foglia, Kafi-Tehrani

The Department offers the B.A. and the B.S. degree in Economics. Students may choose one of three "tracks" or areas of concentration. Each track requires the student to complete the following courses:

General Major Requirements	Sem. Hrs.
Economics 281 (Principles of Economics — Micro)	3
Economics 282 (Principles of Economics — Macro)	3
Social Science F213 (Computer Applications in the Social Sciences)	3
Economics 291 (Introduction to Statistics I)	3
Economics 292 (Introduction to Statistics II)	3
Economics 381 (Intermediate Micro Theory)	3
Economics 382 (Intermediate Macro Theory)	3
Economics 383 (Money and Banking)	3
Economics 484 (Senior Seminar in Economics)	3
	27

Track A. *Concentration in Econometrics* is intended for students who anticipate careers as economists in business or government or graduate study in Economics. It emphasizes economic model building and forecasting. Students choosing this track must, in addition to the general major requirements listed above, take Economics 411 and 412 (Econometrics I and II). They must also take Mathematics 161-162 (Calculus I and II), which they may use to satisfy the College requirement for an Introductory Mathematics sequence.

Track B. *Concentration in Managerial Economics* is intended for students who anticipate careers in business. Students choosing this track must, in addition to the general major requirements listed above, take Economics 321 and 322 (Managerial Economics I and II).

Track C. *Concentration in Economic Policy* is intended for prelaw students and for students who anticipate careers in public service. It emphasizes the economic basis of public policy and of jurisprudence. Students choosing this track must, in addition to the general major requirements listed above, take Economics 433 (Economics of Public Policy) and one additional course in economics.

Major in International Economics

The Department of Economics offers jointly, with the Department of Humanities and Modern Languages, the B.A. and B.S. degrees in International Economics. See p. 152.

Minor in Economics

Course requirements for the minor in Economics are as follows:

Course	Sem. Hrs.
Economics 281 Principles of Economics — Micro	3
Economics 282 Principles of Economics — Macro	3
Economics 291 Introduction to Statistics I	3
Economics 381 Intermediate Micro Theory	3
Economics 382 Intermediate Macro Theory	3
Economics 383 Money and Banking	3
	18

Economics Courses

Economics 203 — History of Economic Thought. Economic thought from ancient to modern times, with emphasis on Smith, Ricardo, Marx, and neoclassical thinkers. *1 term — 3 semester hours. Normally offered every third year.*

Economics 205 — Economics of National Defense. Economic issues that arise in choosing between major strategic and tactical options for national defense. Defense budget making, game theory, and theories of economic warfare. *1 term — 3 semester hours. Normally offered every third year.*

Economics 207 — Labor and Human Resources. The American labor force: labor markets; determination of real and money wages, the price level, and employment; wage price controls; trade offs between unemployment and inflation; wage and productivity differentials; unions; poverty; the economics of human capital. *1 term — 3 semester hours. Normally offered every third year.*

Economics 281 — Principles of Economics — Micro. Consumer and producer behavior, supply and demand, economic efficiency, and business decision making under different market structures. *Prerequisite: Math. 111-112 or Math. 143 or Math. 161. Required of all majors in Economics. 1 term — 3 semester hours. Normally offered every semester.*

Economics 282 — Principles of Economics — Macro. National income, growth in GNP, problems of inflation and unemployment, use of monetary and fiscal policies for economic growth and stability, and issues in international trade and finance. *Prerequisite: Econ. 281. Required of all majors in Economics. 1 term — 3 semester hours. Normally offered every semester.*

Economics 291 — Introduction to Statistics I. Statistical material and techniques with special reference to economics and business data. Measures of central tendency, dispersion, various probability distributions, sampling theory, simple linear regression, and time series analysis. *Prerequisite: Math. 111 or Math. 143 or Math. 161. Required of all majors in Economics. 1 term — 3 semester hours. Normally offered every semester.*

Economics 292 — Introduction to Statistics II. Analysis of variance, nonparametric tests of hypotheses, simple and multiple regression, and correlation analysis. Introduction to decision making under uncertainty. *Prerequisite: Econ. 291 or Math. 113 or Psy. 215. Required of all majors in Economics. 1 term — 3 semester hours. Normally offered every year.*

Economics 303 — Industrial Organization. Analysis of the structure, conduct, and performance of American industry. Consideration of monopoly, oligopoly, and monopolistic competition. Review of U.S. antitrust law and other regulatory laws for their effects on industrial performance. *Prerequisite: Econ. 281. 1 term — 3 semester hours. Normally offered every third year.*

Economics 304 — Public Finance. Sources of federal, state and local tax revenue; public expenditures and the fiscal principles which govern them; public debt and methods of financing; shifting and incidence of taxes. *Prerequisite: Econ. 282. 1 term — 3 semester hours. Normally offered every third year.*

Economics 306 — Economics of Law. The economic basis of civil and criminal law. Topics on plea bargaining, product liability, property rights, tax evasion, and law enforcement. *Prerequisite: Econ. 281. 1 term — 3 semester hours. Normally offered every third year.*

Economics 308 — Urban-Regional Economics. Urban problems: housing, transportation, environment, education, poverty, crime, growth and urban finance. Changes in land-use patterns, zoning laws, interstate migration of workers and industries, the future of our cities. - *Prerequisite: Econ. 282. 1 term — 3 semester hours. Normally offered every third year.*

Economics 321 — Managerial Economics I. Application of economic theory and optimization methods for the solution of managerial problems. Linear and nonlinear programming, cost-benefit analysis, and capital budgeting. *Prerequisite: Econ. 282. 1 term — 3 semester hours. Normally offered every other year.*

Economics 322 — Managerial Economics II. Forecasting and decision making under uncertainty. Demand estimation, decision analysis, Bayesian methods, and game theory. *Prerequisite: Econ. 321. 1 term — 3 semester hours. Normally offered every other year.*

Economics 381 — Intermediate Micro Theory. Analysis of consumer demand and production; the price system in the markets for commodities and factors of production; equilibrium of the firm and industry under conditions of perfect and imperfect competition. *Prerequisite: Econ. 282. Required of all majors in Economics. 1 term — 3 semester hours. Normally offered every other year.*

Economics 382 — Intermediate Macro Theory. Determination of income, employment and prices in a modern industrial economy. Alternative policy approaches to economic stabilization. *Prerequisite: Econ. 282. Required of all majors in Economics. 1 term — 3 semester hours. Normally offered every other year.*

Economics 383 — Money and Banking. Commercial banking, financial markets, and the Federal Reserve system. Monetary policy and its effects on prices, interest rates, and economic growth. *Prerequisite: Econ. 282. Required of all majors in Economics. 1 term — 3 semester hours. Normally offered every semester.*

Economics 403 — Economics of Income Distribution. Ethical and economic issues in income distribution. Measurement of trends in income distribution. Determinants of income distribution and of income inequalities. The effect of taxes, transfers and subsidies on income distribution and on the welfare of different ethnic groups. *Prerequisite: Econ. 282. 1 term — 3 semester hours. Normally offered every third year.*

Economics 404 — Economic Development. Theoretical and policy issues in the development of national economic systems. Balanced versus unbalanced growth. Effects of trade policies and of private and public foreign investment on economic growth. *Prerequisite: Econ. 282. 1 term — 3 semester hours. Normally offered every third year.*

Economics 411 — Econometrics I. The application of statistical inference to the verification of economic postulates. Classical least squares, autocorrelation, heteroscedasticity, multicollinearity, maximum likelihood, and normality. *Prerequisite: Econ. 282. (Beginning Fall, 1986, Econ. 292 and Math. 162 will also be prerequisites.) 1 term — 3 semester hours. Normally offered every other year.*

Economics 412 — Econometrics II. Simultaneous equation estimating techniques, input-output analysis, and econometric model building. *Prerequisite: Econ. 411. 1 term — 3 semester hours. Normally offered every other year.*

Economics 433 — Economics of Public Policy. The economic basis of public regulatory, tax, and budgetary policy. Externalities and alternative prescriptions for their correction. The economic basis for constitutional, legislative, and bureaucratic choice. *Prerequisite: Econ. 282. 1 term — 3 semester hours. Normally offered every other year beginning Fall, 1986.*

Economics 441 — International Trade. Theory of trade: comparative advantage, terms of trade, economic effects of trade, factor movements. The role of international trade in U.S. and world economies; theory of tariffs and other trade restrictions; commercial policies; multinational corporations. *Prerequisite: Econ. 282. 1 term — 3 semester hours. Normally offered every other year.*

Economics 442 — International Monetary Relations. The effects of international monetary flows on exchange rates and on the balance of payments. Alternative exchange rate policies for domestic and international economic stabilization. The role of Eurodollars and SDRs in international settlements. *Prerequisite: Econ. 282. 1 term — 3 semester hours. Normally offered every other year.*

Economics 444 — Comparative Economic Systems. Comparative study of capitalist theory and institutions, of the Marxian theory of socialism and communism, and of the economic systems of other countries. *Prerequisite: Econ. 282. 1 term — 3 semester hours. Normally offered every other year.*

Economics 484 — Senior Seminar in Economics. Review of major issues in economic methodology. Studies in the philosophy of science and in the application to economic phenomena of the methods of the natural and behaviorial sciences. Students will write a senior thesis applying scientific methods to a research topic chosen in consultation with the instructor. *Prerequisites: Econ. 282 and 292. Required of all majors in Economics. 1 term — 3 semester hours. Normally offered every year.*

Economics 503 — Internship in Economics. Approximately 12 hours working in a position designed to give the student responsibility and learning opportunity. Interested students should consult the instructor in advance. *Prerequisite: Consent of the instructor. 1 term — 3 semester hours.*

Economics 505 — Studies in Economics. Hours and credits arranged to suit the needs of students for directed study and research in Economics. *Prerequisite: Consent of Department Chairperson. 1 term — 3 semester hours.*

Economics 507 — Colloquium. Students will research and discuss a current economic issue. Each topic will vary: e.g., the evolving financial system, population dynamics, women in the economy, tax reform, the economics of energy, auditing the presidential candidates. *Prerequisite: Consent of the instructor. 1 term — 3 semester hours.*

Undergraduate Education
Department of Education

Professors: Unger (Chairperson), Eskedal, Lewandowski, McCarthy, Perlman
Associate Professors: Ash, D'Abrosca, S. Mahoney, Shatkin, Winters
Assistant Professors: Lyons, Sartwell, Stefaney, Zifcak
Master Lecturer: Shively
Senior Lecturers: Duffy, Perkins
Lecturers: Cahalane, Chermak, Colarusso, Dauwer, DiLoretto, Felice, Hojlo, Jackson, Meggison, Najarian, Quintiliani, Tenore, Zwicker.

Requirements for Degrees in Education

The course of study recommended by the Department of Education for elementary school teacher preparation may lead to either the B.A. or B.S. degree. The course of study recommended by the Department of Education for secondary school preparation may lead to a B.S. degree in Business Education. All students in elementary or secondary education must complete all education courses as well as pre-practicum and practicum field based experiences appropriate to their specific program.

All undergraduate students planning to enroll in teacher education programs are required to submit a formal application for admission to the Education Department subsequent to enrollment in the University. Application forms are available in the Education Department Office.

The curricula for teacher training are planned to enable students in these programs to meet the requirements for teacher certification in the Commonwealth of Massachusetts.

Those wishing to teach in states other than Massachusetts should write directly to the Department of Education of that state for a list of the requirements.

Media and instructional technology: All students in the teacher education programs will be introduced to and provided with the opportunity for developing basic skills in the operation and use of media hardware. Students will be required to design and produce media software appropriate to subject matter learning activities.

Changes of any sort in student programming must be approved in writing by a member of the Department. Failure to comply with this regulation may result in a loss of credit toward graduation.

The Department wishes to emphasize that it reserves the right to require the withdrawal of a student from teacher education if in its estimation the probability of his/her success in teaching is doubtful. While the academic average of a student is not the sole factor in the determination of such success (others are interest, effort, personality, and proficiency in skill subjects), it is especially important that a student do his/her utmost to maintain a high academic average.

A minimum overall grade point average of 2.2 is required for continuance as a degree candidate in teacher education. Elementary Education majors should earn a minimum grade of C in the following courses:

Foundations of Education, Educational Psychology, Creative Arts, Methods in Teaching (Reading, Mathematics, Science, Language Arts, Social Studies) Developing Competencies for Elementary School Teaching and Attitudes and Issues in Special Education. A student concentrating in Business Education must maintain a minimum grade point average of 2.2 in his/her teaching-subject major and a minimum grade of C in the required education courses. A student who is within a reasonable degree of achieving the minimum grade point averages may request special permission from the Department for the privilege of continuing his/her program in teacher education.

Secondary Science Teacher Education Programs. Courses of study leading to the B.S. degree in secondary science teacher education are described in detail following this general listing of degrees and requirements.

Minor in Adult/Business Education The Department of Education offers a minor in Adult/Business Education which is intended for those students who may wish to serve adults in diverse aspects of continuing education. A description of the minor may be found following the listing of the Business Education Programs in this section.

Curriculum Materials Center. The Curriculum Materials Center, located in room 303 of the Fenton Building, houses a growing collection of elementary and secondary instructional materials and teacher support resources. Holdings include many of the new science, social studies, mathematics, and language arts/reading programs in use today as well as materials used in remedial and special needs applications. The Center is utilized by students for research and report activities related to the teacher education programs and by faculty as a resource for hands-on demonstration or class activities. Whole classes meet in the Center to take full advantage of the array of materials and hours are posted each semester for research and browsing purposes. Many instructional items are available to students on a short-term loan basis.

Pre-Practicum Experience Requirements Before a candidate applies for the Elementary Education practicum experience (student teaching), he/she must complete five of the courses which form the basis for the elementary education program Ed. 333, Ed. 334, Ed. 336, Ed. 433 and three education courses Ed. 203, Ed. 335 and Ed. 433 which include substantial field-based training.

Before a candidate in Secondary Education applies for the practicum experience (student teaching), he/she must complete all education courses appropriate to his/her program of studies. For Business Education majors three education courses will contain substantial field-based training which includes observation in the classroom, tutoring and work with small groups; those courses are Ed. 203, Ed. 320 and Ed. 324.

Practicum Student Teaching Experience The practicum experience is the final professional experience for students in teacher education programs. It is in this extensive practicum that prospective teachers can experience all the varied roles of the classroom teacher. The elementary and secondary practicum must be full-time for 12 weeks and include at least 300 clock hours at the practicum site. The candidate must take on clear instructional responsibilities for at least half of this time and the full responsibilities of the role for a substantial period. Evaluation of all professional activities will be completed by joint supervision consisting of a representative of the Education Department and the cooperating teacher.

Special Regulations Concerning Student Teaching Practicum

1. A practicum may be taken only by collegiate seniors and graduate students. Undergraduates must be concentrating in Elementary Education or Business Education to enroll in the course. Student teachers must be degree candidates.

2. Students wishing to elect the practicum experience must submit a written application concerning this matter to the Director of Student Teaching (by October 1 during the fall semester; by March 1 during the spring semester). The practicum cannot be elected by transfer students before their second semester of residence. Students who

have submitted applications for the practicum must notify in writing the Director of Student Teaching should it become necessary to cancel their plans to student teach. Failure to do so before the registration period will result in the student being withdrawn from the teacher education program.

3. Student teachers must be available for school assignments every day. No doubt this will mean each undergraduate in Education should plan to attend at least one summer session, if he/she has not already done so, in order to lighten his/her academic schedule for the semester in which he/she undertakes student teaching.

4. The student teaching practicum involves a minimum of twelve consecutive weeks (300 clock hours) of observation and teaching in the cooperating school.

5. Student teachers are required by Massachusetts law to have a tuberculin test (Mantoux) prior to the initiation of student teaching. The tuberculin test certificate should be submitted to the school system when requested.

6. All students concentrating in Elementary or Secondary Education must demonstrate proficiency in the areas of Speech and English prior to student teaching.

7. All students in Elementary Education should have completed at least five of the required education method courses before initiating student teaching (Ed. 333, Ed. 334, Ed. 335, Ed. 336, Ed. 433) and three education courses (Ed. 203, Ed. 335, Ed. 433) which include substantial field based training. All students in Secondary Business Education should have completed all education courses appropriate to their specific program.

Cooperating School Systems With the cooperation of the Superintendents, of headmasters and principals, and of a large number of classroom teachers, Suffolk students have fulfilled the practicum portion of the teacher education program in the schools of eastern Massachusetts cities and towns. The supervising faculty of the Education Department together with the cooperating teacher have been able to make this one-semester experience both practical and meaningful.

Advisors for Students in Education
Suffolk University is a member of the American Association of Colleges for Teacher Education. Suffolk's membership in the Association is predicated upon the fact that teacher education is a vital concern of the entire University. Consequently, responsibility for and interest in Suffolk's teacher education programs involve personnel throughout the College of Liberal Arts and Sciences. The Department Chairmen and the Department of Education are especially eager that students in the Education programs receive the professional assistance so vital in the shaping of a rewarding and meaningful academic career.

Students are encouraged to meet often with their major advisors in Education. The advisors listed below have been designated for the following programs.

Business Education Professor Barbara Ash
Professor Louis D'Abrosca
Professor C. Thomas Stefaney

Elementary Education
Professor Sheila Mahoney

Massachusetts Certification All of Suffolk University's programs in education which train personnel for public schools are accredited by the State Department of Education. Thus graduates are eligible for certification in Massachusetts. However, application for certification must be made by the graduate directly to the State Department. In addition to the application, a practicum report and an official transcript must be submitted. The State Department also

requires a fee and proof of good health and sound moral character. Specified programs in Education have been approved by the State Department of Education for inclusion in the reciprocity privileges of the Interstate Certification Compact.

Placement Services — During the semester prior to anticipated graduation, students should register with the Suffolk University Placement Office.

Elementary School Teaching (Grades 1-6)

The undergraduate program in elementary education is designed to provide training in the essential teaching competencies, principles of curriculum design and instruction and the social and cultural perspectives necessary for professional understanding and growth. Courses such as Foundations of Education, and the Elementary Methods Courses in Reading and Competencies allow the student opportunity to observe and participate in actual classroom settings. Elementary education majors also fulfill the requirement of a minor concentration by choosing six courses in an additional field of study. The courses of study are listed below.

B.A. Degree

(122 Semester Hours)

Freshman	Sem. Hrs.
First Year English	6
Math Option	6
Integrated Studies	6
Sociology	3
Psychology	3
Foreign Language	6
	30

Sophomore	Sem. Hrs.
Second Year English	6
Natural Science	8
*Foundations of Education	3
Educational Psychology	3
Speech	3
Elective	3
Logic	3
Econ/Govt Option	3
	32

Junior	Sem. Hrs.
Electives	6
El Methods: Science, Phys. Ed, Health	3
El Methods: Lang Arts, Soc Studies	3
*El Methods: Reading	3
El Methods: Creative Arts	3
El Methods: Math	3
Attitudes & Issues in Special Ed	3
History	3
Eng/Hum/Lang/Phil Option	3
	30

Senior	Sem. Hrs.
Electives	9
*El Methods: Comp in El Sch Tch	6
Electives	6
Practicum: El Student Tch	9
	30

*Education courses with field based component

B.S. Degree
(122 Semester Hours)

Freshman	Sem. Hrs.
First Year English	6
Elective	3
Intro. Math	6
Sociology	3
Psychology	3
Integrated Studies	6
Econ/Govt/History Option	3
	30

Sophomore	Sem. Hrs.
Second Year English	6
Speech	3
History	3
*Foundations of Education	3
Educational Psychology	3
Elective	3
Natural Science Option	8
Logic	3
	32

Junior	Sem. Hrs.
El Methods: Science, Phys Ed, Health	3
El Methods: Lang Arts, Soc Studies	3
*El Methods: Reading	3
El Methods: Math	3
El Methods: Creative Arts	3
Attitudes & Issues in Special Ed	3
Electives	9
Eng/Hum/Lang/Phil/Elective	3
	30

Senior	Sem. Hrs.
Electives	6
*El Methods: Comp in El Sch Tch	6
Electives	9
Practicum: El Student Tch	9
	30

*Education courses with field based component

Secondary School Programs in Business Education and Office Technologies

There are two major components to the Programs in Business Education and Office Technologies.

- Business Teacher Education Concentrations.
- Office Management and Business Training Concentrations.

Both of these concentrations lead to a Bachelor of Science Degree and are open to high school graduates and transfer students from secretarial and business management programs in approved junior and senior institutions.

Bachelor of Science Degree — Teacher Education Concentrations

Graduates of these programs are certified by the Massachusetts State Department of Education for certification both in Massachusetts and in states which hold membership in the Interstate Certification Compact. Majors develop competencies which qualify them to teach a variety of business subjects including accounting, information processing, general business courses, and secretarial skills.

- Option A — Teacher of Business Certificate (5-12)
- Option B — Teacher of Secretarial Skills Certificate (5-12)
- Option C — Teacher of Business Management Certificate (5-12) (Business Administration/ Management)

Bachelor of Science Degree — Office Management/Business Training Concentrations

Graduates of these programs are trained for careers as office supervisors, administrative office managers, or for staff development and training positions in business and industry and/or continuing education settings.

- Option D — Business Training Program (No Teaching Certificate)
- Option E — Office Management Program

A maximum of 60 credits and/or the associate degree from approved institutions will be accepted for the B.S. degree. Transfer candidates with less than 30 transfer credits and high school graduates will pursue the four-year option. Transfer candidates with 31 or more hours of transfer credit will pursue the transfer option.

For those individuals entering the Business Education Program without a background in skills, credits may be earned and applied to the degree. Candidates passing competency examinations in skills courses may replace designated skills courses with elective courses at the discretion of the faculty adviser. All skills credits may be applied ONLY to the B.S. in Business Education.

Degree candidates are advised to consult with Dr. Barbara F. Ash, Director, Business Education and Office Technologies Programs.

Program in Business Education and Office Technologies Bachelor of Science Degree

OPTION A (Four-Year*) — Teacher of Business Certificate (122 semester hours)

Freshman	Sem. Hrs.
Integrated Studies	6
First-Year English	6
Shorthand	6
Typewriting/Word-Information Processing	6
Foundations of Education	3
Humanities Option[1]	3
	30

Sophomore	Sem. Hrs.
Second-Year English	6
Logic/Speech	6
Mathematics	6
Principles of Accounting	6
Transcription	3
Educational Psychology[2]	3
	30

Junior	Sem. Hrs.
Economics[2]	6
Natural Science Option[3]	8
Business Law	3
Introduction to Computer Information Systems	3
Introduction to Computer Programming	3
Office Administration	3
Methods of Teaching Basic Business Subjects	3
Methods of Teaching Keyboarding and Office Systems	3
	32

Senior	Sem. Hrs.
Methods of Teaching Shorthand and Transcription	3
Business Communications	3
Introduction to Business	3
Reading, Communication, and Mathematics Skills for Business Educators	3
Methods of Teaching Bookkeeping, Accounting, Data Processing, and Business Mathematics	3
Microcomputers for Business Education	3
Office Education Internship for Business Educators[4]	3
Practicum (Secondary Student Teaching)[5]	9
	30

*For candidates with fewer than 30 semester hours of transfer credit.

N.B. Should a student change his/her Business Education major, the credits awarded for the skills courses will not be applied to a degree in a new major.

[1]Humanities Option. See the College of Liberal Arts and Sciences Catalog and your academic adviser for course selections.

[2]Course(s) satisfy the Social Science Option requirements.

[3]Natural Science Option. See the College of Liberal Arts and Sciences Catalog and your academic adviser for course selections.

[4]An elective may satisfy three credits of the internship requirement with documentation of full-time office experience or its part-time equivalent.

[5]All required Business Education courses *MUST* be completed prior to commencing student teaching. It is recommended that no more than one course be taken concurrently with student teaching.

Program in Business Education and Office Technologies
Bachelor of Science Degree

OPTION B (Four-Year*) — Teacher of Secretarial Skills Certificate
(122 semester hours)

Freshman	Sem. Hrs.
Integrated Studies	6
First-Year English	6
Shorthand	6
Typewriting/Word-Information Processing	6
Foundations of Education	3
Humanities Option[1]	3
	30

Sophomore	Sem. Hrs.
Second-Year English	6
Logic/Speech	6
Mathematics	6
Principles of Accounting	3
Major Field/Skills	6
Transcription	3
	30

Junior	Sem. Hrs.
Economics[2]	6
Natural Science Option[3]	8
Educational Psychology[2]	3
Introduction to Computer Information Systems	3
Introduction to Computer Programming	3
Business Law	3
Methods of Teaching Basic Business Subjects	3
Methods of Teaching Keyboarding and Office Systems	3
	32

Senior	Sem. Hrs.
Office Administration	3
Methods of Teaching Shorthand and Transcription	3
Business Communications	3
Reading, Communication, and Mathematics Skills for Business Educators	3
Microcomputers for Business Education	3
Office Simulation and Cooperative Work Experience Programs: Implementation and Design	3
Office Education Internship for Business Educators[4]	3
Practicum (Secondary Student Teaching)[5]	9
	30

*For candidates with fewer than 30 semester hours of transfer credit.

N.B. Should a student change his/her Business Education major, the credits awarded for the skills courses will not be applied to a degree in a new major.

[1]Humanities Option. See the College of Liberal Arts and Sciences Catalog and your academic adviser for course selections.

[2]Course(s) satisfy the Social Science Option requirements.

[3]Natural Science Option. See the College of Liberal Arts and Sciences Catalog and your academic adviser for course selections.

[4]An elective may satisfy three credits of the internship requirement with documentation of full-time office experience or its part-time equivalent.

[5]All required Business Education methods courses *MUST* be completed prior to commencing student teaching. It is recommended that no more than one course be taken concurrently with student teaching.

Program in Business Education and Office Technologies Bachelor of Science Degree

OPTION C (Four-Year*) — Teacher of Business Management Certificate
(122 semester hours)

Freshman	Sem. Hrs.
Integrated Studies	6
First-Year English	6
Major Field (Management/Business Administration)	12
Foundations of Education	3
Humanities Option[1]	3
	30

Sophomore	Sem. Hrs.
Second-Year English	6
Logic/Speech	6
Mathematics	6
Principles of Accounting	6
Major Field (Management/Business Administration)	3
Educational Psychology	3
	30

Junior	Sem. Hrs.
Economics[2]	6
Natural Science Option[3]	8
Business Law	6
Introduction to Computer Information Systems	3
Introduction to Computer Programming	3
Office Administration	3
Methods of Teaching Basic Business Subjects	3
	32

Senior	Sem. Hrs.
History and Philosophy of Career and Occupational Education	3
Business Communications	3
Reading, Communication, and Mathematics Skills for Business Educators	3
Methods of Teaching Bookkeeping, Accounting, Data Processing, and Business Mathematics	3
Microcomputers for Business Education	3
Business Education Elective	3
Office Education Internship for Business Educators[4]	3
Practicum (Secondary Student Teaching)[5]	9
	30

*For candidates with fewer than 30 semester hours of transfer credit.

N.B. Should a student change his/her Business Education major, the credits awarded for the skills courses will not be applied to a degree in a new major.

[1]Humanities Option. See the College of Liberal Arts and Sciences Catalog and your academic adviser for course selections.

[2]Course(s) satisfy the Social Science Option requirements.

[3]Natural Science Option. See the College of Liberal Arts and Sciences Catalog and your academic adviser for course selections.

[4]An elective may satisfy three credits of the internship requirement with documentation of full-time office experience or its part-time equivalent.

[5]All required Business Education methods courses *MUST* be completed prior to commencing student teaching. It is recommended that no more than one course be taken concurrently with student teaching.

Program in Business Education and Office Technologies Bachelor of Science Degree

OPTION D (Four-Year*) — Business Training Program
(122 semester hours)

Freshman	Sem. Hrs.
Integrated Studies	6
First-Year English	6
Major Field/Skills	12
Word-Information Processing	3
Humanities Option[1]	3
	30

Sophomore	Sem. Hrs.
Second-Year English	6
Logic/Speech	6
Mathematics	6
Principles of Accounting	6
Major Field/Skills	3
Educational Psychology[2]	3
	30

Junior	Sem. Hrs.
Economics[2]	6
Natural Science Option[3]	8
Business Law	3
Introduction to Computer Information Systems	3
Introduction to Computer Programming	3
Office Administration	3
Methods of Teaching Keyboarding and Office Systems	3
Continuing Education for Business	3
	32

Senior	Sem. Hrs.
Teaching Methodology and Instructional Materials for Adult Business Education	3
Business Communications	3
Introduction to Business	3
Individualized Instruction for Business Education	3
Microcomputers for Business Education	3
Conference and Workshop Organization and Public Relations	3
Elective	3
Office Education Internship for Business Educators	9
	30

*For candidates with fewer than 30 semester hours of transfer credit.

N.B. Should a student change his/her Business Education major, the credits awarded for the skills courses will not be applied to a degree in a new major.

[1]Humanities Option. See the College of Liberal Arts and Sciences Catalog and your academic adviser for course selections.

[2]Course(s) satisfy the Social Science Option requirements.

[3]Natural Science Option. See the College of Liberal Arts and Sciences Catalog and your academic adviser for course selections.

[4]An elective may satisfy three credits of the internship requirement with documentation of full-time office experience or its part-time equivalent.

[5]All required Business Education methods courses *MUST* be completed prior to commencing student teaching. It is recommended that no more than one course be taken concurrently with student teaching.

Program in Business Education and Office Technologies Bachelor of Science Degree

OPTION E (Four-Year*) — Office Management Program
(122 semester hours)

Freshman	Sem. Hrs.
Integrated Studies	6
First-Year English	6
Major Field/Skills	12
Word-Information Processing	3
Humanities Option[1]	3
	30

Sophomore	Sem. Hrs.
Second-Year English	6
Logic/Speech	6
Mathematics	6
Principles of Accounting	6
Major Field/Skills	3
Social Science Option[2]	3
	30

Junior	Sem. Hrs.
Economics[2]	6
Natural Science Option[3]	8
Business Law	3
Introduction to Computer Information Systems	3
Introduction to Computer Programming	3
Office Administration	3
Records and Information Management	3
Business Education Elective	3
	32

Senior	Sem. Hrs.
Business Communications	3
Introduction to Business	3
Conference and Workshop Organization and Public Relations	3
Business Education Elective	3
Microcomputers for Business Education	3
Electives	6
Office Education Internship for Business Educators[4]	9
	30

*For candidates with fewer than 30 semester hours of transfer credit.

N.B. Should a student change his/her Business Education major, the credits awarded for the skills courses will not be applied to a degree in a new major.

[1]Humanities Option. See the College of Liberal Arts and Sciences Catalog and your academic adviser for course selections.

[2]Course(s) satisfy the Social Science Option requirements.

[3]Natural Science Option. See the College of Liberal Arts and Sciences Catalog and your academic adviser for course selections.

[4]An elective may satisfy three credits of the internship requirement with documentation of full-time office experience or its part-time equivalent.

[5]All required Business Education methods courses *MUST* be completed prior to commencing student teaching. It is recommended that no more than one course be taken concurrently with student teaching.

Program in Business Education and Office Technologies Bachelor of Science Degree

OPTION A (Transfer*) — Teacher of Business Certificate (122 semester hours)

Freshman	Sem. Hrs.
First-Year English	6
Shorthand	6
Typewriting	6
Principles of Accounting	6
College Mathematics	3
Communications/Speech	3
	30

Sophomore	Sem. Hrs.
Business Law	3
Introduction to Business	3
Transcription	3
Word-Information Processing	3
Office Procedures/Administration	3
Business Communications	3
Humanities Option[1]	6
Principles of Economics[2]	6
	30

Junior	Sem. Hrs.
Introduction to Computer Information Systems	3
Introduction to Computer Programming	3
English Option	6
Humanities Option[1]	6
Methods of Teaching Basic Business Subjects	3
Methods of Teaching Keyboarding and Office Systems	3
Natural Science Option[3]	8
	32

Senior	Sem. Hrs.
Reading, Communication, and Mathematics Skills for Business Educators	3
Methods of Teaching Shorthand and Transcription	3
Foundations of Education[2]	3
Educational Psychology[2]	3
Methods of Teaching Bookkeeping, Accounting, Data Processing, and Business Mathematics	3
Microcomputers for Business Education	3
Office Education Internship for Business Educators[4]	3
Practicum (Secondary Student Teaching)[5]	9
	30

*For candidates with 30 or more semester hours of transfer credit.

N.B. Should a student change his/her Business Education major, the credits awarded for the skills courses will not be applied to a degree in a new major.

[1]Humanities Option. See the College of Liberal Arts and Sciences Catalog and your academic adviser for course selections.

[2]Course(s) satisfy the Social Science Option requirements.

[3]Natural Science Option. See the College of Liberal Arts and Sciences Catalog and your academic adviser for course selections.

[4]An elective may satisfy three credits of the internship requirement with documentation of full-time office experience or its part-time equivalent.

[5]All required Business Education methods courses *MUST* be completed prior to commencing student teaching. It is recommended that no more than one course be taken concurrently with student teaching.

Program in Business Education and Office Technologies Bachelor of Science Degree

OPTION B (Transfer*) — Teacher of Secretarial Skills Certificate
(122 semester hours)

Freshman	Sem. Hrs.
First-Year English	6
Shorthand	6
Typewriting	6
Principles of Accounting	3
Major Field/Skills	3
College Mathematics	3
Communications/Speech	3
	30

Sophomore	Sem. Hrs.
Business Law	3
Major Field/Skills	3
Transcription	3
Word-Information Processing	3
Office Procedures/Administration	3
Business Communications	3
Humanities Option[1]	6
Principles of Economics[2]	6
	30

Junior	Sem. Hrs.
Introduction to Computer Information Systems	3
Introduction to Computer Programming	3
English Option	6
Humanities Option[1]	6
Methods of Teaching Basic Business Subjects	3
Methods of Teaching Keyboarding and Office Systems	3
Natural Science Option[3]	8
	32

Senior	Sem. Hrs.
Reading, Communication, and Mathematics Skills for Business Educators	3
Methods of Teaching Shorthand and Transcription	3
Foundations of Education[2]	3
Educational Psychology[2]	3
Office Simulation and Cooperative Work Experience Programs: Implementation and Design	3
Microcomputers for Business Education	3
Office Education Internship for Business Educators[4]	3
Practicum (Secondary Student Teaching)[5]	9
	30

*For candidates with 30 or more hours of transfer credit.

N.B. Should a student change his/her Business Education major, the credits awarded for the skills courses will not be applied to a degree in a new major.

[1]Humanities Option. See the College of Liberal Arts and Sciences Catalog and your academic adviser for course selections.

[2]Course(s) satisfy the Social Science Option requirements.

[3]Natural Science Option. See the College of Liberal Arts and Sciences Catalog and your academic adviser for course selections.

[4]An elective may satisfy three credits of the internship requirement with documentation of full-time office experience or its part-time equivalent.

[5]All required Business Education methods courses *MUST* be completed prior to commencing student teaching. It is recommended that no more than one course be taken concurrently with student teaching.

Program in Business Education and Office Technologies Bachelor of Science Degree

OPTION C (Transfer*) — Teacher of Business Management Certificate (122 semester hours)

Freshman	Sem. Hrs.
First-Year English	6
Major Field (Management/Business Administration)	12
Principles of Accounting	6
College Mathematics	3
Communications/Speech	3
	30

Sophomore	Sem. Hrs.
Business Law	6
Major Field (Management/Business Administration)	6
Office Administration	3
Business Communications	3
Humanities Option[1]	6
Principles of Economics[2]	6
	30

Junior	Sem. Hrs.
Introduction to Computer Information Systems	3
Introduction to Computer Programming	3
English Option	6
Humanities Option[1]	6
Methods of Teaching Basic Business Subjects	3
History and Philosophy of Career and Occupational Education	3
Natural Science Option[3]	8
	32

Senior	Sem. Hrs.
Reading, Communication, and Mathematics Skills for Business Educators	3
Methods of Teaching Bookkeeping, Accounting, Data Processing, and Business Mathematics	3
Foundations of Education[2]	3
Educational Psychology[2]	3
Business Education Elective	3
Microcomputers for Business Education	3
Office Education Internship for Business Educators[4]	3
Practicum (Secondary Student Teaching)[5]	9
	30

*For candidates with 30 or more hours of transfer credit.

N.B. Should a student change his/her Business Education major, the credits awarded for the skills courses will not be applied to a degree in a new major.

[1]Humanities Option. See the College of Liberal Arts and Sciences Catalog and your academic adviser for course selections.

[2]Course(s) satisfy the Social Science Option requirements.

[3]Natural Science Option. See the College of Liberal Arts and Sciences Catalog and your academic adviser for course selections.

[4]An elective may satisfy three credits of the internship requirement with documentation of full-time office experience or its part-time equivalent.

[5]All required Business Education methods courses *MUST* be completed prior to commencing student teaching. It is recommended that no more than one course be taken concurrently with student teaching.

Program in Business Education and Office Technologies Bachelor of Science Degree

OPTION D (Transfer*) — Business Training Program
(122 semester hours)

Freshman	Sem. Hrs.
First-Year English	6
Major Field/Skills	12
Principles of Accounting	6
College Mathematics	3
Communications/Speech	3
	30

Sophomore	Sem. Hrs.
Business Law	3
Introduction to Business	3
Major Field/Skills	3
Word-Information Processing	3
Office Procedures/Administration	3
Business Communications	3
Humanities Option[1]	6
Principles of Economics[2]	6
	30

Junior	Sem. Hrs.
Introduction to Computer Information Systems	3
Introduction to Computer Programming	3
English Option	6
Humanities Option[2]	6
Conference and Workshop Organization and Public Relations	3
Methods of Teaching Keyboarding and Office Systems	3
Natural Science Option[3]	8
	32

Senior	Sem. Hrs.
Continuing Education for Business	3
Microcomputers for Business Education	3
Teaching Methodology and Instructional Materials for Adult Business Education	3
Foundations of Education[2]	3
Educational Psychology[2]	3
Individualized Instruction for Business Education	3
Elective	3
Office Education Internship for Business Educators[4]	9
	30

*For candidates with 30 or more hours of transfer credit.

N.B. Should a student change his/her Business Education major, the credits awarded for the skills courses will not be applied to a degree in a new major.

[1]Humanities Option. See the College of Liberal Arts and Sciences Catalog and your academic adviser for course selections.

[2]Course(s) satisfy the Social Science Option requirements.

[3]Natural Science Option. See the College of Liberal Arts and Sciences Catalog and your academic adviser for course selections.

[4]An elective may satisfy three credits of the internship requirement with documentation of full-time office experience or its part-time equivalent.

[5]All required Business Education methods courses *MUST* be completed prior to commencing student teaching. It is recommended that no more than one course be taken concurrently with student teaching.

Program in Business Education and Office Technologies Bachelor of Science Degree

OPTION E (Transfer*) — Office Management Program
(122 semester hours)

Freshman	**Sem. Hrs.**
First-Year English	6
Major Field/Skills	12
Principles of Accounting	6
College Mathematics	3
Communications/Speech	3
	30

Sophomore	**Sem. Hrs.**
Business Law	3
Introduction to Business	3
Major Field/Skills	3
Word-Information Processing	3
Office Procedures/Administration	3
Business Communications	3
Humanities Option[1]	6
Principles of Economics[2]	6
	30

Junior	**Sem. Hrs.**
Introduction to Computer Information Systems	3
Introduction to Computer Programming	3
English Option	6
Humanities Option[1]	6
Social Science Option[2]	6
Natural Science Option[3]	8
	32

Senior	**Sem. Hrs.**
Conference and Workshop Organization and Public Relations	3
Microcomputers for Business Education	3
Records and Information Management	3
Business Education Electives	6
Electives	6
Office Education Internship for Business Educators[4]	9
	30

*For candidates with 30 or more hours of transfer credit.

N.B. Should a student change his/her Business Education major, the credits awarded for the skills courses will not be applied to a degree in a new major.

[1]Humanities Option. See the College of Liberal Arts and Sciences Catalog and your academic adviser for course selections.

[2]Course(s) satisfy the Social Science Option requirements.

[3]Natural Science Option. See the College of Liberal Arts and Sciences Catalog and your academic adviser for course selections.

[4]An elective may satisfy three credits of the internship requirement with documentation of full-time office experience or its part-time equivalent.

[5]All required Business Education methods courses *MUST* be completed prior to commencing student teaching. It is recommended that no more than one course be taken concurrently with student teaching.

Minor: Business Education/Adult-Continuing Education

To obtain a minor in Business Education/Adult-Continuing Education, a student must take 18 semester hours of course work distributed as follows:

ED 515 Internship for Business Educators
ED 521 Individualized Instruction for Business Education
ED 522 Continuing Education for Business
ED 523 Teaching Methodology and Instructional Materials for Adult Business Education
ED 524 Conference and Workshop Organization
ED 723 Adult Development

The 18 semester hour sequence of Business Education/Adult-Continuing Education courses provide a logical group of courses for those students in any discipline who may wish to serve adults in diverse aspects of continuing education. These settings may include health and social agencies, government, community-based schools, libraries, religious institutions, training settings in industry, and those positions which may require competencies for conducting and evaluating programs for continuing education in the professions.

Secondary School Programs in Mathematics and Science Education

Bachelor of Science or Bachelor of Arts Degree.

The Departments of Biology, Chemistry, Physics, Mathematics and Computer Science, have collaborated with the Education Department to offer joint programs providing full majors in the particular Science or Mathematics area with a concentration in Secondary Education.

Depending upon the exact sequence of courses, it is possible for the student to qualify for various teaching certificates. The following certificates are directly addressed by new Suffolk University programs:

Teacher of Mathematics, Grades 9-12
Teacher of Physics, Grades 9-12
Teacher of Chemistry, Grades 9-12
Teacher of Biology, Grades 9-12

In addition, students may be able to qualify for certificates in the following areas, and should consult with their advisors in both the department of the academic major and the Education Department if interested, so that an appropriate sequence of courses may be proposed:

Teacher of Mathematics and Science, Grades 9-12
Teacher of General Science, Grades 9-12

Each program is comprised of a major in one of the academic disciplines (Mathematics, Mathematics and Computer Science, Physics, Chemistry or Biology) plus a concentration in Secondary Education. Students take the recommended sequences in the academic disciplines which include various numbers of courses depending upon the discipline, certification requirements, plus 30 hours of Education courses.

The 30 Semester Hours of required courses are as follows:

Education 203 (Foundations of Education)*
Education 204 (Educational Psychology)
Education 443-444 (Curriculum and Methods of Science and Mathematics Education)*
English 101 (Freshman English Composition)
Communications and Speech 103 (Rhetoric and Communication)
Education 446 (Reading Skills for Secondary Science and Mathematics Teaching)*
Education 500 (Student Teaching)

*Courses followed by asterisks are labelled pre-practicum, contain substantial amounts of field experiences, and must be taken prior to Education 500 (Student Teaching).

Students interested in one or more of the listed programs are urged to see the assigned advisor in the specific academic area as well as the Education coordinator listed below.

Biology: Dr. Rebecca DiLiddo
Physics: Mr. Robert Garneau
Mathematics/Computer Science: Dr. Paul Ezust
Chemistry: Dr. Doris Lewis
Education: Dr. Stephen Shatkin

Suggested Course Sequence for Mathematics/Education

Teacher of Mathematics 9-12

Freshman	Sem. Hrs.
First Year English	6
Integrated Studies	6
Mathematics 161-162	6
Physics 151-152 & L151-L152	8
Computer Science 131-132	6
	32

Sophomore	Sem. Hrs.
Second Year English	6
Speech	3
Logic	3
Humanities Option or Language (B.A.)	6
Mathematics 261-262	6
Free Electives	6
	30

Junior	Sem. Hrs.
Education 446	3
Education 203 (Soc. Sci. Option)	3
Education 443-444 (Curriculum/Methods)	6
Mathematics 281-282 or 351-352	6
Mathematics 341-342	6
Free Electives	6
	30

Senior	Sem. Hrs.
Social Science Option	3
Humanities Option	3
Mathematics 431-432 or 461-462	6
Education 204 (Soc. Sci. Option)	3
Education 500 (Practicum)	9
Free Electives	6
	30

Grand Totals 122

Suggested Course Sequence for Mathematics/Computer Science/Education

Teacher of Mathematics 9-12

Freshman	Sem. Hrs.
First Year English	6
Integrated Studies	6
Mathematics 161-162	6
Physics 151-152 & L151-L152	8
Computer Science 131-132	6
	32

Sophomore	Sem. Hrs.
Second Year English	6
Speech	3
Logic	3
Humanities Option or Language (B.A.)	6
Mathematics 261-262	6
Computer Science 253	3
Computer Science 255	3
	30

Junior	Sem. Hrs.
Education 446	3
Education 203 (Soc. Sci. Option)	3
Education 443-444 (Curriculum/Methods)	6
Mathematics 281-282 or 351-352	6
Mathematics 341-342	6
Computer Science 333	3
Computer Science Elective	3
	30

Senior	Sem. Hrs.
Social Science Option	3
Humanities Option	3
Mathematics 431-432 or 461-462	6
Education 204 (Soc. Sci. Option)	3
Education 500 (Practicum)	9
Computer Science Elective	3
	30

Grand Totals 122

Suggested Course Sequence for Chemistry/Education

Teacher of Chemistry 9-12

Freshman	Sem. Hrs.
Chemistry 111-112, L111-L112	8
Biology 114, L114	4
Mathematics 161-162	6
English 101-102	6
Freshman Integrated Studies	6
	30

Sophomore	Sem. Hrs.
Chemistry 211-212, L211-L212	8
Biology 113, L113	4
Physics 151-152, L151-L152	8
Second Year English	6
Speech	3
Logic	3
	32

Junior	Sem. Hrs.
Chemistry 331, L331	4
Chemistry 314	4
Chemistry 313	1
Humanities Option or Language (B.A.)	6
Computer Science 131	3
Education 446	3
Education 203 (Soc. Sci. Option)	3
Education 443-444 (Curriculum/Methods)	6
	30

Senior	Sem. Hrs.
Chemistry 411-412, L411-L412	8
Social Science Option	3
Humanities Option	3
Education 204 (Soc. Sci. Option)	3
Education 500 (Practicum)	9
Free Electives	4
	30

Grand Totals	122

Suggested Course Sequence for Physics/Education

Teacher of Physics 9-12

Freshman	Sem. Hrs.
Freshman English	6
Freshman Integrated Studies	6
Mathematics 161-162	6
Physics 151-152, L151-L152	8
Computer Science 131-132	6
	32

Sophomore	Sem. Hrs.
Electronics Elective	3
Mathematics 261-262	6
Computer Science Elective	3
Chemistry 111, 112, 411, 412	8
Speech	3
Logic	3
English Option	6
	32

Junior	Sem. Hrs.
Physics 361-362	6
Mathematics 373	3
Education 443-444 (Curriculum/Methods)	6
Social Sciences Option	3
Education 446	3
Education 203 (Soc. Sci. Option)	3
Programming Language Elective	1
Humanities Option or Language (B.A.)	6
	31

Senior	Sem. Hrs.
Physics 471-472	6
Physics 451-452	6
Humanities Option	3
Education 204 (Soc. Sci. Option)	3
Education Practicum	9
	27

Grand Totals	122

Suggested Course Sequence for Biology/Education

Teacher of Biology 9-12

Freshman	Sem. Hrs.
Biology 113-114, L113-L114	8
Chemistry 111-112, L111-L112	8
Mathematics 143 or Mathematics 161	3
Freshman English	6
Integrated Studies	6
	31

Sophomore	Sem. Hrs.
Biology 333, L333	4
Biology 274, L274	4
Chemistry 211, L211	4
Chemistry Option and Lab	4
Mathematics 161 or Mathematics 162	3
Biology 203	1
Speech	3
English Option	6
Logic	3
	32

Junior	Sem. Hrs.
Advanced Botany and Lab	4
Biology Electives and Labs	8
Physics 111-112, L111-L114 or 151-152, L151-L152	8
Humanities Option	3
Education 203 (Soc. Sci. Option)	3
Education 443-444 (Curriculum/Methods)	6
	32

Senior	Sem. Hrs.
Biology 403, L403	4
Biology Electives	2
Humanities Option or Language (B.A.)	6
Biology Senior Seminar	1
Education 446	3
Soc. Sci. Option	3
Education 204 (Soc. Sci. Option)	3
Education Practicum	9
	31

Grand Totals	126

Undergraduate Education Course Descriptions

Education 101, 102 — Introduction to Education in American Society. These courses focus on the school as a social institution. Significant aspects of American society provide a setting to study the process, organization and problems of American education. *2 terms — 6 semester hours. Normally offered yearly.*

Education 203 — Foundations of Education. Introduction to the organization, role and purposes of education in American society. Considers the philosophical, historical, social foundations of education. Develops an awareness of teaching the culturally diverse and special needs student. Five observations required. *1 term — 3 semester hours. Normally offered yearly.*

Education 204 — Educational Psychology. Examines the nature and development of human abilities and the teaching-learning process. Considers the facts and generalizations of child and adolescent growth and development. Field observations required. *1 term — 3 semester hours. Normally offered yearly.*

Education 320 — Methods of Teaching Basic Business Subjects. Study and evaluation of the contemporary secondary business education curriculum. Review of current methods and developments in business education. Pre-practicum field experience is required, options A, E, C, BSBE Program; options B, MSBE Program. *1 term — 3 semester hours. Normally offered yearly.*

Education 323 — Methods of Teaching Shorthand and Transcription. Psychological principles of skill building applied to shorthand and transcription. Analysis and demonstration of group and individual instruction. Measurement and grading. Teaching aids. Motivation and classroom dynamics. *1 term — 3 semester hours. Normally offered yearly.*

Education 324 — Methods of Teaching Keyboarding and Office Systems. Application of the psychological principles of skill building to keyboarding. Analysis and demonstration of groups and individualized instruction. Evaluation and grading. Teaching aids. Overview of office systems methodology, motivation, and classroom dynamics. *1 term — 3 semester hours. Normally offered yearly.*

Education 325 — Methods of Teaching Bookkeeping, Accounting, Data Processing, and Business Mathematics. Principles and demonstration of modern methods of teaching bookkeeping, accounting, data processing, and business mathematics. Development and utilization of classroom materials and media. Individualized instruction. Effect of data processing on accounting. *1 term — 3 semester hours. Normally offered yearly.*

Education 326 — Reading, Communication, and Mathematics Skills for Business Educators. Purposeful individualization of instruction and evaluation of achievement in reading, communication, and mathematics skills as they relate to business education. Prepracticum field experience required, option A, B, C, BSBE Program; certification option, MSBE Program. *1 term — 3 semester hours. Normally offered yearly.*

Education 333 — Elementary Methods: Science, Physical Education and Health. Introduction to the basic competencies of classroom teaching. Emphasis on Science, Physical Education, and Health curricula. Students will be expected to plan and select materials and conduct and assess learning activities. Required. *1 term — 3 semester hours. Normally offered alternate years.*

Education 334 — Elementary Methods: Language Arts and Social Studies. The teaching of language arts (emphasis on language development and children's literature) and social studies as both content and process is developed in relation to the child as an individual and group member. Required. *1 term — 3 semester hours. Normally offered alternate years.*

Education 335 — Elementary Methods: Reading and Its Teaching. Includes the reading process, reading readiness, grouping techniques, basal, individualized, linguistic, language-experience, phonics, word recognition and comprehension skills. One hour a week of field based training. Required prior to student teaching. *1 term — 3 semester hours. Normally offered yearly.*

Education 336 — Elementary Methods: Mathematics and Its Teaching. Application of the discovery approach, suitable materials, and experiences for developing concepts in mathematics for children grades one to six. Materials investigated are Cusenaire Rods, Attribute Blocks, Pattern Blocks, Chip Trading, Geoblocks, and Fraction Bars. Required. *1 term — 3 semester hours. Normally offered alternate years.*

Education 337 — Creative Arts. Focuses on a series of workshops in the areas of art, music, movement and creative dramatics and explores the inter-relationships of arts for young children as well as encouraging students in their own personal development of creative and aesthetic awareness. Required of all students majoring in Elementary Education. *1 term — 3 semester hours. Normally offered yearly.*

Education 433 — Elementary Methods: Developing Competencies for Elementary Teaching. Introduction to basic competencies of classroom teaching. Students assess learning activities in a public school setting one full day per week. Required prior to student teaching. *1 term — 3 semester hours. Normally offered yearly.*

Education 434 — Practicum (Elementary Student Teaching). The practicum experience must be full-time for one semester and include at least 300 clock hours in a public school setting. Required of all students majoring in Elementary Education. (See Special Regulations concerning majoring in Elementary Education and Special Regulations concerning the Practicum.) *1 term — 9 semester hours. Normally offered yearly.*

Education 435 — Independent Research Elementary. Conference hours will be held with students and readings will be directed in specific areas of research in elementary education. Projects of this sort will be authorized only in unusual circumstances and upon the approval of the Department Chairperson. *1 term — 3 semester hours. Normally offered yearly.*

Education 436* — Micro Computers in Elementary Education. Introduction to microcomputers as an educational tool and format. Exploration of computer-assisted instruction (CAI) and computer programming as a means of improving problem-solving abilities and fostering critical and creative thinking skills. *1 term — 3 semester hours. Normally offered alternate years.*

Education 443, 444 — Curriculum and Methods of Science and Mathematics Education. Introduction to basic competencies of secondary classroom teaching, with special emphases on mathematics and the sciences. Assessment through field experiences of learning activities in public school settings. Development of classroom materials and media. Analysis and demonstration of group and individualized instruction. Motivation and classroom dynamics. *2 terms — 6 semester hours. Normally offered yearly.*

Education 446 — Reading Skills for Secondary Science and Mathematics Teaching. Includes group techniques, readability, problem-solving, study-reading skills and the various levels of comprehension. Special attention is given to application of reading skills in secondary science and mathematics texts. *1 term — 3 semester hours. Normally offered yearly.*

Education 500 — Practicum (Secondary Student Teaching). The practicum experience must be full-time for one semester and include at least 300 clock hours in a secondary public school setting. The course may be taken by undergraduate senior and graduate students. *1 term — 9 semester hours. Normally offered yearly.*

Education 510 — Office Administration. Organization and management of office systems, including work measurement, work simplification, office standards, layout, design, and the supervision of office personnel. *1 term — 3 semester hours. Normally offered alternate years.*

Education 513 — Office Simulation and Cooperative Work Experience Programs: Implementation and Design. Comparison of office simulation programs. Laboratory experience. Remodeling and designing new facilities for implementation of an office simulation. Development of cooperative work experience programs. *1 term — 3 semester hours. Normally offered alternate years.*

Education 515 — Office Education Internship for Business Educators. Designed for business educators in all options who need to update or obtain practical full-time business experience. The field site must be approved by the Internship Supervisor. Required of all undergraduate and CAGS business education students. *1 term — 3 to 9 semester hours. Normally offered yearly.*

Education 516 — History and Philosophy of Career and Occupational Education. An examination of current research, theories, and principles of career and occupational education. *1 term — 3 semester hours. Normally offered alternate years.*

Education 517 — Business Communications. Specialized writing skills required in the business environment. Business writing styles and overcoming barriers to communications. Composition of resumes, memoranda, business letters, and reports. *1 term — 3 semester hours. Normally offered alternate years.*

Education 518 — Microcomputers for Business Education. Introductory course in the application of microcomputers to business education and their integration in the business curriculum. Analysis of business-related software. Hands-on experience and development of programming capability on the Apple II. *1 term — 3 semester hours. Normally offered yearly.*

Education 519 — Records and Information Management. Examines the growth of computer assisted retrieval (CAR) of records and information, the use of micrographics for both active record systems and information storage systems, and the blending of electronic data processing with word processing for records processing and control. *1 term — 3 semester hours. Normally offered alternate years.*

Education 520 — Business Education Skill Competencies. Documentation and/or demonstration of specific competencies in the skills areas of business and office education. Skills assessment. Students work independently to meet competencies. *1 term — 3 to 6 semester hours. Normally offered alternate years.*

Education 521 — Individualized Instruction for Business Education. Multimedia resources for individualized and independent instruction. Preparation of audio-tutorial projects, learning contracts, and LAPS. *1 term — 3 semester hours. Normally offered alternate years.*

Education 522 — Continuing Education for Business. Philosophy of adult eduction. The role of community agencies, industry, and federal and state agencies in continuing education. Introduction to needs analysis. Design, implementation, and marketing of adult business education programs. *1 term — 3 semester hours. Normally offered alternate years.*

Education 523 — Teaching Methodology and Instructional Materials for Adult Business Education. Methods of teaching business subjects to the adult learner. Special characteristics of the adult learner and appropriate instructional materials and techniques. *1 term — 3 semester hours. Normally offered alternate years.*

Education 524 — Conference and Workshop Organization and Public Relations. Introduction to organizing conferences, workshops, seminars, and training programs for business and industry. Promoting and marketing educational programs. *1 term — 3 semester hours. Normally offered alternate years.*

Education 526 — Attitudes and Issues in Special Education. Focus on attitudinal and environmental barriers, and major legislation affecting people with disabilities. *1 term — 3 semester hours. Normally offered yearly.*

Education 529 — Behavior and Classroom Management. Basic principles of behavior and management are adapted to the classroom situation. *1 term — 3 semester hours. Normally offered yearly.*

Education 534 — Speech and Language Development. The acquisition and normal development of speech and language is explored with a particular emphasis upon language disorders. *1 term — 3 semester hours. Normally offered yearly.*

Engineering Technology

Physics Faculty:

Professors: Johnson (Chairman), Marshall
Associate Professor: Feldman
Assistant Professors: Garneau, Haque
Lecturers: Goodman, Niknejad, Shahram, Walsh, Zatet

Four-year baccalaureate degrees in Computer Engineering Technology and also Electronic Engineering Technology are offered by the Physics Department. The curriculum for these majors was designed to meet or exceed the curricular guidelines developed by the Institute of Electrical and Electronics Engineers (IEEE) for the Accreditation Board of Engineering and Technology (ABET).

The programs are intended for students whose primary goal upon graduation is entry into the high technology job market. Training emphasizes hands-on experience in electronics, microprocessors, robotics and engineering computer graphics (CAD/CAM). Students are encouraged to take the standardized Engineers in Training (EIT) examination during their senior year.

Requirements for a Major in Computer Engineering Technology:

Core Requirements in Engineering Technology (30 hours):

- Eng. Tech. 113 (Introduction to Engineering)
- Eng. Tech. 205 (Applied Circuit Theory)
- Eng. Tech. 206 (Electronic Devices)
- Eng. Tech. 325 (Math Methods for Engineers)
- Eng. Tech. 386 (Engineering Computer Graphics)
- Eng. Tech. 401 (Engineering Mechanics)
- Eng. Tech. 411 (Engineering Technology Systems)
- Eng. Tech. 415 (Computer Aided Engineering)
- Eng. Tech. 422 (Automation and Robotics)

Core Requirements in Physics (20 hours):

- Physics 151-152 (University Physics I and II)
- Physics L151-L152 (Laboratory I and II)
- Physics 303 (Digital Electronics)
- Physics 351 (Introduction to Microprocessors)
- Physics 352 (Microprocessor Interfacing)

Complementary Requirements in Mathematics and Computer Science (27 hours):

- Computer Science 131-132 (Computer Programming I and II)
- Mathematics 161-162 (Calculus I and II)
- Mathematics 261-262 (Calculus III and IV)
- Computer Science 353 (Computer Architecture)
- Mathematics 373 (Ordinary Differential Equations)
- Computer Science 376 (Introduction to Computer Graphics)

Bachelor of Science Computer Engineering Technology

(Suggested Course Sequence)

Freshman	Sem. Hrs.
First-year English	6
Integrated Studies	6
Calculus I and II	6
University Physics and Lab	8
Computer Programming I and II	6
	32

Sophomore	Sem. Hrs.
Introduction to Engineering	3
Calculus III and IV	6
Applied Circuit Theory	4
Electronic Devices	4
Logic, Speech	6
Computer Architecture	3
Humanities Option	6
	32

Junior	Sem. Hrs.
Intro. to Microprocessors	4
Microprocessor Interfacing	4
Math Methods for Engineers	3
Digital Electronics	4
Differential Equations	3
English Option	6
Intro. to Computer Graphics	3
Engineering Computer Graphics	3
	30

Senior	Sem. Hrs.
Social Science Option	6
Engineering Tech. Systems	4
Humanities Option	6
Computer Aided Engineering	3
Automation and Robotics	4
Engineering Mechanics	3
Social Science Option	3
Technical Elective	3
	32

Requirements for a Major in Electronic Engineering Technology

Core Requirements in Engineering Technology (32 hours):

- Eng. Tech. 113 (Introduction to Engineering)
- Eng. Tech. L204 (Electronics Laboratory)
- Eng. Tech. 205 (Applied Circuit Theory)
- Eng. Tech. 206 (Electronic Devices)
- Eng. Tech. 325 (Math Methods for Engineers)
- Eng. Tech. 335 (Signal and Control Systems)
- Eng. Tech. 386 (Engineering Computer Graphics)
- Eng. Tech. 403 (Engineering Electricity and Magnetism)
- Eng. Tech. 410 (Communication Systems)
- Eng. Tech. 411 (Engineering Technology Systems Project)

Core Requirements in Physics (20 hours):

- Physics 151-152 (University Physics I and II)
- Physics L151-L152 (Laboratory I and II)
- Physics 303 (Digital Electronics)
- Physics 351 (Introduction to Microprocessors
- Physics 352 (Microprocessor Interfacing)

Complementary Requirements in Mathematics and Computer Science (24 hours):

- Computer Science 131-132 (Computer Programming I and II)
- Mathematics 161-162 (Calculus I and II)
- Mathematics 261-262 (Calculus III and IV)
- Mathematics 373 (Ordinary Differential Equations)
- Computer Science 376 (Introduction to Computer Graphics)

Bachelor of Science Electronic Engineering Technology

(Suggested Course Sequence)

Freshman	Sem. Hrs.
First-year English	6
Integrated Studies	6
Calculus I and II	6
University Physics and Lab	8
Computer Programming I and II	6
	32

Sophomore	Sem. Hrs.
Introduction to Engineering	3
Calculus III and IV	6
Applied Circuit Theory	4
Electronic Devices	4
Logic, Speech	6
Electronics Laboratory	3
Humanities Option	6
	31

Junior	Sem. Hrs.
Social Science Option	6
Math Methods for Engineers	3
Digital Electronics	4
Differential Equations	3
English Option I, II	6
Intro. to Computer Graphics	3
Engineering Computer Graphics	3
Technical Elective	3
	31

Senior	Sem. Hrs.
Intro. to Microprocessors	4
Microprocessor Interfacing	4
Social Science Option	3
Engineering Tech. Systems Project	4
Humanities Option	3
Signal and Control Systems	3
Communication Systems	3
Engineering Elec. and Magnetism	3
Social Science Option	3
	30

B.A. Degrees in Electronic Engineering Technology and Computer Engineering Technology: The B.A. degree may be obtained by replacing the Humanities Option I, II in the B.S. program with a two semester foreign language sequence and by replacing the Social Science Option III with a one semester History Option.

Airway Electronic Systems: Interdepartmental majors in Airway Computer Science and Airway Electronic Systems are offered by the departments of Mathematics and Computer Science, Physics, and Sociology. These programs are designed to provide a high technology base with organizational skills and human factors methods applied to a core of aviation studies. The Airway Electronics Systems degree contains many of the engineering technology courses required for the major in Electronics Engineering Technology. Graduates are eligible to fill positions such as Computer Specialist, Electronics Technician, and Air Traffic Control Specialist in the Federal Aviation Administration, as well as similar positions in the expanding aviation and aerospace industry.

For core requirements and suggested course sequences, refer to the section of this bulletin on Airway Science programs.

Engineering Technology Courses

Eng. Tech. 113 — Introduction to Engineering. An introduction to the various fields of engineering. Emphasis on computer engineering and electronic engineering. Non-calculus, normally taken prior to Physics 151. *1 term — 3 semester hours. Offered yearly.*

Eng. Tech. L204 — Electronics Laboratory. Hardware techniques of electronics. Experience in construction and use of PC boards, cable connectors, switches, fuses, relays. Use of oscilloscopes, multimeters, signal generators, logic analyzers. Soldering and wire-wrap techniques. *Prerequisite: Eng. Tech. 113 or Phys. 152. 1 term — 2 semester hours. Offered yearly.*

Eng. Tech. 205 — Applied Circuit Theory. Network concepts, resistive circuits. Network theorems, DC circuits with R,L,C elements. Complex numbers, sinusoids, phasors, AC circuit analysis. Transfer functions, frequency response, filters. Laboratory experience included. *Prerequisite: Physics 152. 1 term — 4 semester hours. Offered yearly.*

Eng. Tech. 206 — Electronic Devices. Introduction to transistors. Theory of semiconductors, bipolar and FETS, device characteristics and equivalent circuits. Applications to amplifiers, switching circuits, oscillators, phase locked loops, multi-vibrators, and optoelectronics. Laboratory experience included. *Prerequisite: Eng. Tech. 205. 1 term — 4 semester hours. Offered yearly.*

Eng. Tech. 325 — Mathematical Methods for Engineers. Numerical solutions to differential equations. Matrices, introduction to complex variables, contour integration, Laplace transforms, Fourier and Z transforms. Numerical methods and engineering applications of mathematical software packages. *Prerequisites: Mathematics 373, Eng. Tech. 206. 1 term — 3 semester hours. Offered yearly.*

Eng. Tech. 335 — Signals and Control Systems. Analysis of the response of linear systems to various input signals. Transfer functions, applications of transforms. Systems engineering, analysis and design of linear control systems with feedback. Nyquist's and Routh's stability criteria, transient and steady state behavior of systems. *Prerequisite: Eng. tech. 325. 1 term — 3 semester hours. Normally offered every other year.*

Eng. Tech. 386 — Engineering Computer Graphics. Experience with different types of software and hardware used for graphics, laboratory experience on personal computer systems and multi-user microcomputer graphics systems. Graphical input using mouse, digitizing tablet, and light pen. Point plotting techniques, line drawing, viewing and windowing. Symbol transformations, zoom and pan applications for models. PC board layout, 3D mechanical representation, surface modeling. *Prerequisite: Computer Science 376 (Introduction to Computer Graphics). 1 term — 3 semester hours. Normally offered yearly.*

Eng. Tech. 401 — Engineering Mechanics. Statics and dynamics of rigid bodies, kinematics, in conservative and non-conservative fields. Lagrangian and Hamiltonian methods, stress ad strain analysis, fluid mechanics. Computer applications to engineering mechanics problems. *Prerequisites: Physics 152, Mathematics 373. 1 term — 3 semester hours. Normally offered in alternate years.*

Eng. Tech. 403 — Engineering Electricity and Magnetism. Electrostatics and magnetostatics, Maxwell's equations. Time varying fields, plane wave propagation, reflection and transmission. Applications to transmission lines, antennae, fiber optics. *Prerequisites: Physics 152 (University Physics), Eng. Tech. 325 (Math Methods for Engineers). 1 term — 3 semester hours. Normally offered in alternate years.*

Eng. Tech. 410 — Communication Systems. Introduction to analog and digital modulation systems. Amplitude, frequency and phase modulation. Sampling, pulse amplitude, width. Communication circuits, transceivers, fiber optics. *Prerequisite: Eng. Tech. 335 (Signal and Control Systems). 1 term — 3 semester hours. Normally offered in alternate years.*

Eng. Tech. 411 — Engineering Technology Systems Project. Senior project requiring design, construction and demonstration of device approved by instructor. *1 term — 4 semester hours. Offered annually.*

Eng. Tech. 415 — Computer-Aided Engineering. Use of high-level software and hardware, (MEDUSA and graphics work-stations), to involve the computer in the design process. Selected problems in 3D geometry, electronics, and robotics. *Prerequisites: Eng. Tech. 386 (Engineering Computer Graphics), Eng. Tech. 206 (Electronic Devices), Eng. Tech. 325 (Math Methods for Engineers). 1 term — 3 semester hours. Normally offered in alternate years.*

Eng. Tech. 422 — Robotics and Automation. Introduction to robotics. Use of ET-18 robot and small scale industrial-arm robots with 7 rotational axes. Microprocessor controller interfacing to DC motors, stepper motors, light sensors. Computer control and response to sensors-sonar transmitter and receiver, light sensor, temperature sensors. Speech generation using phonemes, image processing. *Prerequisites: Eng. Tech. 401 (Engineering Mechanics), Physics 352 (Microprocessor Interfacing), Eng. Tech. 206 (Electronic Devices). 1 term — 3 semester hours. Normally offered in alternate years.*

Eng. Tech. 425 — Electrical Power and Transmission. AC and DC machines, 3-phase induction motors, servos. Transformers, solid state devices for DC/DC, AC/DC converters. Rectification, filtering, regulation. Power transmission and transmission line equations and interpretation of solutions. High voltage power transmission. *Prerequisites: Eng. Tech. 325 (Math Methods for Engineers), Eng. Tech. 403 (Engineering E&M). 1 term — 3 semester hours. Normally offered in alternate years.*

English

Department of English

Professors: Wilkins (Chairperson), Bigelow, Clark, Connors, R.K. Johnson, Merzlak, Millner, and Vogel
Associate Professor: M. Mahoney
Assistant Professors: Hughes, Jurich, Lottridge, Mandl, and McKinley
Instructor: P. Caputo
Senior Lecturer: Colburn
Lecturers: Harding, Keet, Lemontt, Moore, Porter, and Stoker

First-Year English Requirement. Students with satisfactory entrance proficiency in English take **English 101 and 102,** the standard Freshman English sequence. Those whose SAT verbal scores indicate exceptional proficiency are invited to take **English 103** (Advanced Freshman English) and follow it with **English 102.** Those for whom English is a second language, and whose performance on an entrance essay indicates the need of additional training to succeed in college-level work, are required to take **English 003** (English as a Second Language) and follow it with **English 102** or both **English 101** and **102,** depending on their degree of success in the first semester. Students whose native language is English, but whose SAT scores indicate verbal deficiency, are required to take **English 001** and **002** concurrently in the first semester, and follow these with **English 102** or both **English 101** and **102,** depending on the grades they earn in the two-course first-semester package.

NOTE: English 102 is a prerequisite for all English courses beyond **English 124.**

Second-Year English Requirement. All undergraduates must take **English 213** (Literary Masters of England, I) and either **English 214** (Literary Masters of England, II) or **English 215,** (Literary Masters of America). **English 213** may precede or follow the second chosen course. All three courses combine an introduction to a significant body of literature in English with continued instruction in reading and writing skills.

Upperclass students with a demonstrated reading deficiency may also be required to take **English 303** (Communication Process).

English Major Requirements. Requirements for a major in English are satisfied by 30 semester hours of course work in English (exclusive of the two-year all-college English requirement described above). Half of the 30 hours (five courses) must be chosen from the group of English core courses — those whose first two numbers are between 31 and 36 — one each from five of the six numerical groups (31, 32, etc). English H513, the English Honors Seminar, may replace one of the five core courses, or more than one if the student is invited to participate in the seminar more than once. The BA degree is recommended for majors planning to continue their study on the graduate level.

Twelve semester hours of related electives are required. Each fall, the Department updates its list of such courses. Copies of the current list are available in the Department office.

Transfer students with an English major must complete at least nine hours of English courses at Suffolk beyond the two-year all-college English requirement.

English courses taken for **graduate credit** will require extra written and reading assignments. Students are required to notify the professor during the first class meeting that they are seeking graduate credit for the course.

English Courses

English 001 — Writing Skills. A course designed to give extra practice, especially in grammar and punctuation, to the freshman who lacks skills in English. Required, in conjunction with **English 002,** of students with low SAT verbal scores. *1 term — 3 semester hours. Offered in fall semester.*

English 002 — Communication Process. Designed to improve reading and study skills, vocabulary and expression of freshmen who lack facility in English. 3 hours of class per week, two of laboratory, the latter individualized according to diagnostic test results. *1 term — 3 semester hours. Offered in fall semester.*

English 003 — English as a Second Language. Study of the fundamentals of the English language designed to assist foreign students speaking English as a second language. Emphasis on English idiom. *1 term — 3 semester hours. Offered in fall semester.*

English 004 — English as a Second Language. Study of the English language designed to assist foreign students speaking English as a second language in writing skills and reading. Emphasis on sentence structure and the English idiom. *1 term — 3 semester hours. Offered in spring semester.*

English 101 — Freshman English, I. The fundamental course, designed to increase the student's capacity to read and write correctly and logically. Study of the essay as a literary form, and frequent writing assignments, both expository and argumentative. *1 term — 3 semester hours. Offered every semester.*

English 102 — Freshman English, II. A continuation of English 001, 003, 101 and 103. Training in critical reading and writing, the mechanics of research, the writing of a term paper, and additional writing based on assigned readings in imaginative literature. *1 term — 3 semester hours. Offered every semester.*

English 103 — Advanced Freshman English. Reserved for students who enter Suffolk with high SAT verbal scores, or satisfy other criteria, and are invited to participate. Frequent written assignments based on readings. *1 term — 3 semester hours. Offered in fall semester.*

English 113 — Masters of the Drama, I. Survey of dramatic literature and the evolution of theatre from its beginnings in classical Greece through the 18th century. *1 term — 3 semester hours. Normally offered yearly.*

English 114 — Masters of the Drama, II. Survey of dramatic literature and the evolution of theatre from the 19th century to the present. *1 term — 3 semester hours. Normally offered yearly.*

English 123 — Great Books of World Lit., I. Literary masterpieces from ancient times to the Renaissance, including *The Odyssey, The Inferno, Don Quixote* and the plays of Moliere. List may vary at the discretion of the instructor. *1 term — 3 semester hours. Normally offered yearly.*

English 124 — Great Books of World Lit., II. Literary masterpieces from the 18th century to the 20th, including *The Sorrows of Young Werther, Madame Bovary, Fathers and Sons, Bread and Wine* and *The Dwarf. 1 term — 3 semester hours. Normally offered yearly.*

English 213 — Literary Masters of England, I. Study of major writers of England from the beginning to the mid-18th century. Regularly assigned essays on the reading provide the basis for individualized instruction in clear, correct and persuasive writing. *1 term — 3 semester hours. Offered every semester.*

English 214 — Literary Masters of England, II. Study of major English writers from the mid-18th century to the present. Regularly assigned essays on the reading provide the basis for individualized instruction in clear, correct and persuasive writing. *1 term — 3 semester hours. Offered every semester.*

English 215 — Literary Masters of America. Study of major American writing and thought from the Puritan age to the present. Regularly assigned essays on the reading provide the basis for individualized instruction in clear, correct and persuasive writing. *1 term — 3 semester hours. Offered every semester.*

English 303 — Communication Process. For sophomores and juniors. Like English 002 in hours per week, individualized laboratory sessions, and aims: development of writing, reading and study skills, inferential reading and reading flexibility. *1 term — 3 semester hours. Normally offered yearly.*

English 304 — Writing Review/ Non-Freshman. Skills course for upper class students who need basic writing instruction. An individualized review of grammar, punctuation, and the principles of paragraph and essay construction. Consent of instructor required for admission. *1 term — 3 semester hours. Offered every semester.*

English 305 — Reason and Expression. For upper class students interested in improving verbal abilities in preparation for graduate study and/or professional careers. Emphasis on developing proficiency in abstract reasoning through principles of logic, analogy study, vocabulary development and critical reading. *1 term — 3 semester hours. Normally offered yearly.*

English 306 — Writing Workshops. Discussion of techniques of fiction, verse, drama and other literary forms. Each student plans his own work. Student writing will be regularly read and analyzed in class, the group acting as editors. *1 term — 3 semester hours. Normally offered every fall.*

English 307 — Writing Workshop. A continuation of English 306. *1 term — 3 semester hours. Normally offered every spring.*

English 308 — Directed Writing. Independent work on a writing project under the guidance of the instructor. Frequent discussion of the work in progress is required through the semester. *1 term — 3 semester hours. Normally offered every fall.*

English 309 — Directed Writing. A continuation of English 308. *1 term — 3 semester hours. Normally offered every spring.*

English 313 — The Bible as Literature, I. Study of the Old Testament as an embodiment of Hebrew history, folklore, and legend. Altering concept of the nature of God, and development of the idea of an afterlife. *1 term — 3 semester hours. Normally offered alternate years.*

English 314 — The Bible as Literature, II. Study of the New Testament and Apocrypha. Jesus' life and teachings, his concept of his own mission, and Paul's concept of Jesus. Major apocryphal writings as Hebrew didactic literature. *1 term — 3 semester hours. Normally offered alternate years.*

English 315 — Classical Drama. Greek and Roman drama from its origins; characteristics of the theater; development of tragedy and comedy. Readings in Aeschylus, Sophocles, Euripides, Aristophanes, Plautus, Terence, and Seneca. *1 term — 3 semester hours. Normally offered every third year.*

English 316 — Greek and Roman Classics. Introduction to Greek and Roman classical literature. Readings in the major writers and discussion of the values, ideals, and realities of the classical world. *1 term — 3 semester hours. Normally offered every third year.*

English 323 — Chaucer. Close reading and discussion of *The Canterbury Tales* and *Troilus and Criseyde* against the background of the late Middle Ages. *1 term — 3 semester hours. Normally offered yearly.*

English 324 — Shakespeare's Comedies. Shakespeare's background and development as a dramatist through an examination of selected comedies. Collateral reading of the minor plays and Shakespeare criticism. *1 term — 3 semester hours. Normally offered every third semester.*

English 325 — Shakespeare's Histories. Shakespeare's English history plays. Emphasis on individual characters, interrelated play groups, and the political and personal insights that the plays reveal. *1 term — 3 semester hours. Normally offered every third semester.*

English 326 — Shakespeare's Tragedies. Shakespeare's major tragedies, reflecting the range, resourcefulness, and power of his dramaturgy. Collateral reading in Shakespeare criticism. *1 term — 3 semester hours. Normally offered every third semester.*

English 333 — English Drama, 1590-1700. The comedies and tragedies of major dramatists (excluding Shakespeare) of the Elizabethan, Jacobean and Restoration eras. Marlowe, Jonson, Tourneur, Webster, and Congreve. *1 term — 3 semester hours. Normally offered alternate years.*

English 334 — Seventeenth-Century Literature. Metaphysical and Cavalier poetry, major works of Milton and the development of prose, including Bacon, Browne, Bunyan, Pepys, and others. *1 term — 3 semester hours. Normally offered alternate years.*

English 335 — Donne and Milton. A close reading and comparison of England's two great Renaissance poets with particular attention given to their secular and religious, political and philosophical attitudes. *1 term — 3 semester hours. Normally offered alternate years.*

English 336 — The Age of Enlightenment. The great age of satire, essay, criticism, biography and "nature." Dryden, Pope, Swift, Addison, Steele, Boswell, Johnson, Gray, Thomson, and Gibbon. *1 term — 3 semester hours. Normally offered alternate years.*

English 337 — The 18th-Century English Novel. The English novel to Richardson, also including Defoe, Fielding, Smollett, Sterne, and Austen. Sentimental and gothic novels. *1 term — 3 semester hours. Normally offered alternate years.*

English 343 — The 19th-Century English Novel. Development of the Romantic and Victorian novel. Readings in major works of the Brontes, Dickens, Thackeray, Trollope, Eliot, and Hardy. *1 term — 3 semester hours. Normally offered alternate years.*

English 344 — English Romantic Literature. The mind and spirit, poetics and poetry of Wordsworth, Coleridge, Byron, Shelley, and Keats, along with selected prose. *1 term — 3 semester hours. Normally offered alternate years.*

English 345 — Victorian Literature. The mind and spirit, poetics and poetry of Tennyson, Browning, Arnold, Rossetti, and Morris, along with selected prose. *1 term — 3 semester hours. Normally offered alternate years.*

English 346 — Dickens and George Eliot. Close examination of six novels by two of England's major Victorian novelists. *1 term — 3 semester hours. Normally offered alternate years.*

English 353 — The Rise of American Fiction. Development of the American imagination in the novel, including works of Brown, Cooper, Poe, Hawthorne, Melville, and James. *1 term — 3 semester hours. Normally offered alternate years.*

English 354 — Hawthorne and Melville. Close examination of fiction by two major writers of the American Renaissance. *1 term — 3 semester hours. Normally offered alternate years.*

English 355 — American Writers, 1865-1914. The revolution in American literary consciousness between the Civil War and First World War, and the transition from the traditional to the modern, in the work of James, Twain, Crane, Veblen, Dreiser and others. *1 term — 3 semester hours. Normally offered alternate years.*

English 356 — Whitman and Dickinson. A study of the work of America's two greatest nineteenth-century poets, considering the achievement of each and their startling diversity. *1 term — 3 semester hours. Normally offered every third year.*

English 357 — Afro-American Literature, I. Black American writing from the beginning through the Harlem Renaissance (1746-1940). Authors include Phillis Wheatley, Paul Laurence Dunbar, Claude McKay, Countee Cullen, Langston Hughes, Charles W. Chesnutt, Jean Toomer, Frederick Douglass, W.E.B. DuBois, and others. *1 term — 3 semester hours. Normally offered alternate years.*

English 358 — Afro-American Literature, II. Modern black writing — poetry, drama, fiction — from 1940 to the present. Gwendolyn Brooks, Robert Hayden, Lorraine Hansberry, Imamu Amiri Baraka, Ed Bullins, Richard Wright, Ralph Ellison, James Baldwin, Ernest J. Gaines, and others. *1 term — 3 semester hours. Normally offered alternate years.*

English 363 — Modern British Poetry. The individual achievement of major British poets and their expressions of a modern sensibility from World War I to the present. *1 term — 3 semester hours. Normally offered every third year.*

English 364 — Modern American Poetry. American poetry written between 1900 and the Second World War. Content and form in the writings of such poets as Williams, Frost and Eliot. *1 term — 3 semester hours. Normally offered alternate years.*

English 365 — Contemporary Poetry. Poetry written in English since 1945, featuring such writers as Berryman, Roethke, Lowell, Sexton, and Plath. *1 term — 3 semester hours. Normally offered alternate years.*

English 366 — Modern British Fiction. Fiction by Joyce, Lawrence, Woolf, Forster, Lessing, and others. Attention to the central themes and innovative approaches to language and form that characterize modernism in literature. *1 term — 3 semester hours. Normally offered alternate years.*

English 367 — Twentieth-Century American Fiction. Twentieth-century American fiction of Dreiser, Hemingway, Fitzgerald, Faulkner, Bellow, Oates and others. *1 term — 3 semester hours. Normally offered alternate years.*

English 368 — Modern British Drama. Masterworks of the greatest British playwrights from Synge and Shaw to Shaffer and Stoppard. *1 term — 3 semester hours. Normally offered every third year.*

English 369 — Modern American Drama. Masterworks of the major American playwrights from Eugene O'Neill to the present. *1 term — 3 semester hours. Normally offered every third year.*

English 373 — English Writers of the 1930's. The social, political and cultural revolution in pre-World War II England as it is reflected in the poetry of Auden and Spender and the fiction of Huxley, Waugh, Isherwood, Bowen, Orwell, and Greene. *1 term — 3 semester hours. Normally offered every third year.*

English 374 — Drama Seminar. Discussion and student reports on a pre-announced subject: a major playwright, a dramatic movement or genre (e.g., absurdism or the one-act play), or the relation between script and performance. *Prerequisite: English 113 and 114. 1 term — 3 semester hours. Normally offered alternate years.*

English 375 — American Musical Theatre. Development of the American musical, from its beginnings in the revue and opera, through the deepening influence of Rodgers and Hammerstein, to the recent work of Steven Sondheim and Harold Prince. *1 term — 3 semester hours. Normally offered every third year.*

English 376 — American Theatre Today. Examination of all aspects of current theatrical activity in America. Attendance at local theatre productions featured. Additional fee required to cover cost of theatre tickets. *1 term — 3 semester hours. Normally offered every third year.*

English 377 — The World on Film. Examination of film as an art form and as entertainment. Course to include the writing of film criticism and the study of how a film is made. Several films to be viewed in class. *1 term — 3 semester hours. Normally offered alternate years.*

English 378 — Fantasy and Folklore. Folk tales, fairy tales, myths and ballads reflecting both a literary and cultural tradition. Fantasy, as escape and enlightenment, to include readings in science fiction and the Utopian novel. *1 term — 3 semester hours. Normally offered every third year.*

English 379 — Children's Literature. Background of children's literature; picture books, fantasy and folklore — from Mother Goose to Dr. Seuss; other prose and poetry appropriate for the elementary age level. *1 term — 3 semester hours. Normally offered alternate years.*

English 383 — Studies in Short Fiction. Close reading and discussion of major examples of the European and American short story. *1 term — 3 semester hours. Normally offered every third year.*

English 384 — Literary Satire. Examination of the techniques and modes of satire in the ancient world (Aristophanes, Petronius, Juvenal, Horace) and in European and American literature (Jonson, Moliere, Voltaire, Twain, Waugh). *1 term — 3 semester hours. Normally offered every third year.*

English 385 — The Short Novel. Close reading and discussion of major examples of the European and American novella. *1 term — 3 semester hours. Normally offered every third year.*

English 386 — Classics of Mystery and Terror. Classic stories of suspense and detection, including short stories and novels by Poe, Dickens, Collins, Doyle, Chandler, Hammett, Christie, and LeCarre. Current examples also to be included. *1 term — 3 semester hours. Normally offered alternate years.*

English 387 — Women and Literature. Study of the images of women in literature and of the woman writer's contribution to these evolving representations. Readings in Virginia Woolf, Doris Lessing, Margaret Drabble, Tillie Olsen, Anais Nin, and others. *1 term — 3 semester hours. Normally offered alternate years.*

English 388 — Literature of Love. An analysis of literary works that vividly present the development and celebration of the theme of love — platonic, romantic, and erotic. Works by Knowles, Hemingway, James, Simon, and Rossner. *1 term — 3 semester hours. Offered every third year.*

English 390 — Law and Literature. Literature dealing with law — its origins and processes; its relationship to justice and morality; its effects on individuals and society; the appeals from the law; and the power of non-violence and civil disobedience. *1 term — 3 semester hours. Normally offered every third year.*

English 393 — History of the English Language. Study of the development of the English language from its Germanic origins to its status as a world language. *1 term — 3 semester hours. Normally offered every third year.*

English 395 — Businessmen in American Literature. Readings to include Howells' *The Rise of Silas Lapham*, Dreiser's *The Financier*, Lewis's *Babbitt*, Fitzgerald's *The Great Gatsby*, and others. *1 term — 3 semester hours. Normally offered every third year.*

English 396 — American Political Literature. Major political discourse of America, between the European settlement of New England and the Civil War, which attempts to transform social and political realities into an esthetic, timeless symbol. Winthrop, Jefferson, Thoreau, and others. *1 term — 3 semester hours. Normally offered every third year.*

English 398 — Boston: A City in Fiction. Boston in novels from its beginning to the present — plan of the city, architecture, population, social classes, politics, human problems. Hawthorne, James, Howells, Jean Stafford, Edwin O'Connor, Dorothy West, and others. *1 term — 3 semester hours. Normally offered every third year.*

English 399 — Irish Literature. Writers of the Irish Literary Revival, from the 1890's to the 1930's. Readings from Yeats, Joyce, Synge, O'Casey and O'Flaherty. The influence of Anglo-Irish history on Irish writers. *1 term — 3 semester hours. Normally offered alternate years.*

English 403 — The Modern European Novel. Major novels and short stories by representative European writers, including Camus, Joyce, Chekhov, Mann, Kafka, Dostoyevsky and Solzhenitsyn. *1 term — 3 semester hours. Normally offered every third year.*

English 404 — Polish Literature. The history and civilization of Poland as reflected in its literature from the Renaissance to the present — and from Nazi decimation to Soviet domination. Also the underlying folk tradition from which it springs. *1 term — 3 semester hours. Normally offered every third year.*

English 405 — Russian Literature. An introduction to the major works of Russian literature, with an examination of the moral and aesthetic issues they present. Pushkin, Turgenev, Gogol, Dostoyevsky, Tolstoy, Chekhov and Solzhenitsyn. *1 term — 3 semester hours. Normally offered every third year.*

English 406 — Italian Literature. Major writers of the Middle Ages, Renaissance, *Risorgimento*, and present day, including Dante, Boccaccio, Machiavelli, Ariosto and Leopardi, in English translation. Focus on the originality of Italian literature and its contribution to our culture. *1 term — 3 semester hours. Normally offered every third year.*

English H513 — English Honors Seminar. A seminar limited to highly qualified juniors and seniors selected by the English faculty for their scholastic achievement and ability to write critical prose. Intensive reading in major fields of English and American literature and substantial written critiques. *1 term — 3 semester hours. Offered every semester.*

English 514 — Internship in English. Individualized guidance in a career-related activity. Upperclass English majors may gain academic credit for work preparing them for English-related careers, provided that the work is monitored by a member of the English faculty. Department approval is required. *1 term — 3 semester hours. Normally offered yearly.*

English 515 — Independent Study in English. By special arrangement, a junior or senior may pursue an independent research project under the supervision of a faculty member. Consent of instructor and chairperson required. *1 term — 3 semester hours. Offered every semester.*

English 516 — Independent Study in English. Under special circumstances, a junior or senior may be allowed to pursue a second semester of study under the supervision of a faculty member. Consent of instructor and chairperson required. *1 term — 3 semester hours.*

English 517 — Seminar in English Tutoring. Theory and practice in individualized writing instruction. Open to upperclassmen with demonstrated proficiency in writing. Consent of instructor required. Peer tutors in English are required to enroll in the course. *1 term — 3 semester hours. Normally offered yearly.*

Fine Arts

Department of Humanities and Modern Languages

Professors: Chiasson, Hastings, Mendez-Herrera
Associate Professors: Parks, Smythe, Weitz (Chairperson)
Assistant Professor: Hourtienne
Lecturers: Kelton, Radtke
Professors Emeriti: Fang, Fehrer, Goodrich, Petherick

The Fine Arts program is offered by the Department of Humanities and Modern Languages. Students should refer to course descriptions on page 145. A major in Fine Arts requires 30 semester hours in Art History, Studio Art and Humanities, and must include Humanities 103-104 (History of the Visual Arts) and Humanities 401-402 (Seminar).

Students may concentrate in either Studio Arts or Art History. In the Studio Arts concentration, students work closely with Department art instructors to master the techniques of one or more mediums, develop a personal style, and begin a portfolio of works. A concentration in Art History provides an understanding of the chronological record of Western Art, and of the criteria upon which art works are judged.

The Fine Arts major increases visual awareness and aesthetic sensibility. Although the major provides no direct technical training for such fields as advertising, visual communications or fashion design, the program does produce students with excellent preparation for advanced training in these and other specialized fields.

A Minor concentration in Fine Arts includes the following requirements:

Art History track	
Humanities 103-104	6 hrs.
Century courses	6 hrs.
Century course and Humanities 401	6 hrs.
Total	18 hrs.

Studio Art track	
Humanities 105-106	6 hrs.
Humanities 207, 208, 209, 210, 211, 212, 215 or 216	6 hrs.
Humanities 501-502	6 hrs.
Total	18 hrs.

French

Department of Humanities and Modern Languages
Professors: Chiasson, Hastings, Mendez-Herrera
Associate Professors: Parks, Smythe, Weitz (Chairperson)
Assistant Professor: Hourtienne
Lecturers: Kelton, Radtke
Professors Emeriti: Fang, Fehrer, Goodrich, Petherick

The major in French consists of the study of the French language, its literature, and the civilization of the French-speaking world. The major requires 30 credit hours beyond the Elementary level, and must include Masterworks of French Literature.

A Minor concentration in French requires 18 credit hours as follows: French 101-102, 201-202, sequenced as indicated; and two courses from among the following: French 209, 210, 211, 212, 311, 312; 401-402 sequenced as indicated; 501. Students who begin a Minor concentration at Intermediate level or beyond will complete the required 18 hours with selections from upper level courses, listed above.

Students who arrive at Suffolk University with 2 years of high school French with average grades of B- or better will begin French studies at Intermediate level (French 201-202); students who have successfully completed a third or fourth year course in high school will consult with an advisor in the Department of Humanities and Modern Languages for appropriate placement.

The Department of Humanities and Modern Languages, and the Department of Economics under joint sponsorship offer a career-oriented program that combines studies of a foreign language, economics, and regional or area materials. For further details on the International Economics major, see p. 152.

The Department of Humanities and Modern Languages, in cooperation with the Department of Journalism, offers a major program in Bilingual Journalism, for students who wish to start a career in the foreign language media. See p. 154 for details.

French Courses

French 101-102 — Elementary French: Introduction to French Language and Culture. Practice in both oral and written language skills. Audio-visual and textual materials based on French cultural themes. Two language laboratory sessions per week. *2 terms — 6 semester hours. Offered yearly.*

French 201-202 — Intermediate French: The Language and Civilization of France. Study of the French language using cultural materials as a primary vehicle for the development of language skills. Extensive audio-visual materials support the texts read in class. Two half-hour laboratory assignments per week using cultural materials integrated with those used in class. *Prerequisite: French 101-102 or instructor's permission. 2 terms — 6 semester hours. Offered yearly.*

French 209 — Contemporary French Civilization, I. Reading and discussion in French of texts about French society, history, culture, education, politics and economy. Films illustrating aspects of French life relating to the above subjects. Review work in grammar. *1 term — 3 semester hours. Offered in Fall term of alternate years.*

French 210 — Contemporary French Civilization, II. Sequel to French 209. Continuation of language work, composition and conversation supplemented by cultural films. *1 term — 3 semester hours. Offered in Spring term of alternate years.*

French 211 — The French-Speaking World, I. A study of France and its institutions with concentration on the influence they have had in countries as diverse as Canada, Haiti and Senegal. Cultural films. Continuing work in Language. *1 term — 3 semester hours. Offered in Fall term of alternate years.*

French 212 — The French-Speaking World, II. Sequel to French 211. Continuation of language work, composition and conversation supplemented by films. *1 term — 3 semester hours. Offered in Spring term of alternate years.*

French 311 — Masterworks of French Literature, I. Great works of French literature from the Middle Ages to the Age of Enlightenment. Authors such as Rabelais, Montaigne, Molière and Voltaire are read and discussed in relation to the cultural history of their age, with music, color slides, and other background materials illustrating each text. Offered in French, and in English with texts in translation. *1 term — 3 semester hours. Offered in Fall term.*

French 312 — Masterworks of French Literature, II. Great works of French literature from the beginning of the 19th century to the present. Authors such as Hugo, Balzac, Baudelaire, Proust, Sartre and Camus are read and discussed in relation to the cultural history of their age, with music, color slides, and other background materials illustrating each text. Offered in French, and in English with texts in translation. *1 term — 3 semester hours. Offered in Spring term.*

French 320 — French Classical Drama. A study of the themes, conventions and theories of the 17th century French theater, with readings in translation. Selected tragedies of Corneille and Racine, and comedies of Molière. *1 term — 3 semester hours. Offered in alternate years.*

French 324 — Twentieth Century French Theater. The development of the 20th century French theater will be traced through the modes of Surrealism, Dadism, the Avant-garde and the Absurd, in the works of Sartre, Anouilh, Ionesco, and Beckett. Readings in translation. *1 term — 3 semester hours. Offered alternate years.*

French 401-402 — Seminar in French: Literary Translation. Translation of works from French to English, and from English to French on an alternating basis. Texts chosen from classic works in genres such as novel, essay, theater and journalistic writing. *Prerequisite: French 209, 210, 211, 212; or French 311-312 or equivalent. 2 terms — 6 semester hours. Normally offered every year.*

French 501 — Independent Study. Students meet with a department member to confer on prearranged subjects based on readings in areas of particular interest to them. *1 term — 3 semester hours.*

German

Courses offered by the Department of Humanities and Modern Languages.

Students who arrive at Suffolk University with two years of high school German with average grades of B– or better will begin German studies at Intermediate level (German 201-202). Students who have successfully completed more than two years of German in high school will consult with an advisor from the Department of Humanities and Modern Languages for appropriate course selection.

German Courses

German 101-102 — Elementary German: Introduction to German Language and Culture. Intensive practice in both oral and written language skills using German culture as background for language study. Emphasis on active use of German to master structure, pronunciation and vocabulary. Two one-hour laboratory sessions per week. *2 terms — 6 semester hours. Offered every year.*

German 201-202 — Intermediate German: Language, Culture and Literature. Review of grammar, practice in spoken German, cultural and literary readings, composition and translation. Two half-hour laboratory sessions per week. *Prerequisite: German 101-102 or instructor's permission. 2 terms — 6 semester hours. Offered every year.*

German 501 — Independent Study. Students meet with a department member to confer on prearranged subjects based on readings of particular interest to them. *1 term — 3 semester hours.*

Government

Department of Government

Professors: Holleman (Chairperson)
Associate Professors: Bain (Acting Chairperson), Berg, O'Callaghan
Assistant Professors: Drexler, Dushku
Lecturers (part-time): Arnaud, Brownell, A. Burke, Greco, Graham

Students majoring in the field of government may pursue one of the following two programs of study:

TRACK A — B.A. or B.S. in **Government**
This program is designed to give students a comprehensive background in the discipline of political science and its subfields. It constitutes appropriate preparation for graduate work in the discipline, the study of law, and generally for careers in business, teaching, communications and public service.

Students entering in Fall, 1982, or later must meet the requirements for the B.A. or B.S. degree plus the following:

Major Requirements	Sem. Hrs.
Government 111-112 (Politics and Government I & II)	6
American Government Group (choose one below) Government 221, 222, 243, 244, 253, 346, 347, 355, or 357.	3
International Relations Group (choose one below) Government 261, 262, 363, or 463.	3
Political Theory Group (choose one below) Government 274, 275, 374, 473, or 475.	3
Comparative Government Group (choose one below) Government 283, 383, 385, 387, 389, 483, 485 or 487.	3
Electives in Government	12
	30

TRACK B — B.A. or B.S. in **Public Policy and Administration.** This program is designed to give students interested in public service careers a basic grounding in the theory and practice of public administration, combined with a general knowledge of governmental and of relevant technical skills. Successful candidates will be prepared for either entry-level employment or graduate work in public policy or administration. Students entering in Fall, 1982, or later must meet the requirements for the B.A. or B.S. degree plus the following:

Major Requirements	Sem. Hrs.
Government 111-112 (Politics and Government I & II)	6
Government 221-222 (Public Administration I & II)	6
Government 224 (Introduction to Public Policy)	3
Government 374-374 (Research Methodology and Applied Methods in Public Affairs)	6
Electives in Government	6
	30

Complementary Major Requirements: Track B majors are also expected to fulfill an experiential requirement which may be met through a Government internship consisting of 6 to 12 semester hours (Government 521 and 522, 523, 524), a Cooperative Education experience together with the 3 semester hour Internship Seminar (Government 522) or demonstration of equivalent experience and acquired skills, subject to the department's approval.

Government Courses

Government 103 — American Government. Introductory analysis of U.S. national government and politics: the Constitution; legislative, judicial, executive and bureaucratic processes and institutions; political activity and organizations; policy making and outcomes. *1 term — 3 semester hours. Offered every year. Designed for non-majors.*

Government 111 — Politics and Government I. Introduction to the discipline of political science and concepts of political philosophy and theory. Emphasizes reciprocal relationships among the polity, economy and society through analysis and comparison of U.S., other late capitalist, socialist and Third World polities. *1 term — 3 semester hours. Normally offered every year. Required for all Government Majors entering Fall, 1982, or later.*

Government 112 — Politics and Government II. Continuation of Gov. 111 with focus on major theoretical systems, methodologies and research in political science. Emphasizes comparative study of political institutions, decision-making, political participation and public policies. *1 term — 3 semester hours. Normally offered every year. Prerequisite: Gov. 111. Required for all Government Majors entering Fall, 1982, or later.*

Government 203 — Women in Politics. The relationship of woman to her political culture and structures. The role of women seen in theory (e.g. Marxism, American feminism, existentialism) and in practice over time in the U.S., U.S.S.R., Israel, Cuba, and Sweden. *1 term — 3 semester hours. Normally offered alternate years.*

Government 221 — Public Administration I: Theory and Institutions. The scope of public administration, differentiation between private and public goods; the role of political culture in shaping public administration; theories and politics of bureaucracy; organization theory; ethics and accountability; approaches to administrative reform. *1 term — 3 semester hours. Normally offered every year.*

Government 222 — Public Administration II: Problems and Applications. Emphasis on the development of analytical and technical skills to address public problems. Topics include resource management, organization development, government reorganization, budgeting and state/local finance, and methods of program analysis and evaluation. *Prerequisite: Gov. 221 or consent of instructor. 1 term — 3 semester hours. Normally offered every year.*

Government 224 — Introduction to Public Policy. Focus on how public policy is made rather than on particular institutions. Primarily case studies which demonstrate how problems get on the agenda, proposals are formulated and adopted, and policies are implemented and evaluated. *Prerequisite: Gov. 111-112. 1 term — 3 semester hours. Normally offered alternate years.*

Government 233 — Public Relations and Lobbying. Methods and practices of interest groups trying to influence legislative and administrative decision-making; methods and practices of public agencies trying to influence governmental policies; the military-industrial complex and other cases on federal or state levels. *1 term — 3 semester hours. Normally offered alternate years.*

Government 243 — American Constitutional Law. The growth of Constitutional law and the role of the Supreme Court is examined by analysis of court decisions dealing with Judicial Review, Federalism, Presidential and Congressional powers. *1 term — 3 semester hours. Normally offered every year.*

Government 244 — Civil Liberties. Analysis of Supreme Court decisions in regard to political and civil rights including freedom of speech, press, assembly and religion, obscenity, race and sex discrimination, and criminal procedure. *1 term — 3 semester hours. Normally offered every year.*

Government 253 — State and Local Government. The development, structure and functions of state governments with emphasis on the government of Massachusetts; the various forms of local government in cities and towns; analysis of the relationships between local, state, and federal governments. *1 term — 3 semester hours. Normally offered every year.*

Government 261 — Theory and Practice of International Relations. Review of major approaches to the study of international relations. Definition of concepts such as power, nationalism, imperialism and dependency. Special attention to use of force and conflict resolution. *1 term — 3 semester hours. Normally offered every year.*

Government 262 — Current Issues in International Relations. Examination of contemporary econopolitical phenomena and problems in the global arena. Students are required to participate in a class project designed to simulate the experience of international behavior. *Prerequisite: Gov. 261 or 363. 1 term — 3 semester hours. Normally offered alternate years.*

Government 274 — Early Political Theory. Plato to Machiavelli: Study of the teachings of the great ancient political thinkers such as Plato and Aristotle and schools such as the stoics; the Roman lawyers; the medieval thinkers; Thomas Aquinas; Renaissance; Machiavelli. *1 term — 3 semester hours. Normally offered alternate years.*

Government 275 — Modern Political Theory. Reformation to the present. Study of the teachings of Protestant and Catholic thinkers, Bodin, Hobbes, Locke, Rousseau, Hegel, Marx and the Marxians, Bentham, J.S. Mill, T.H. Green, democratic and other theories, and present-day political ideologies. *1 term — 3 semester hours. Normally offered alternate years.*

Government 283 — Third World Politics. Theories dealing with the process of political change in countries of the Third World: the impact of the military, traditional culture and institutions, economic problems, strong personalities and other factors on political life and institutions. *1 term — 3 semester hours. Normally offered every year.*

Government 335 — The Politics of Health Care. Policies of present United States health care system critically analyzed and compared with other national systems. Current reform proposals receive special attention. *1 term — 3 semester hours. Normally offered alternate years.*

Government 337 — Government Policy and Business. Role of government in promoting, protecting and regulating business activities in the U.S. Examination of Constitutional principles; administrative law, procedure and agencies; taxation, equal employment opportunity, environmental, and antitrust policies. *1 term — 3 semester hours. Normally offered every semester.*

Government 343 — State and Municipal Law. Institutions and processes of the state and municipal legal systems and their everyday interrelationships, including legal origins of state and municipal law-making authorities; relationships among federal, state, and local units; and administrative agencies. *1 term — 3 semester hours. Normally offered alternate years.*

Government 346 — The American Presidency. Perspectives on the role and problems of the presidency in American political life; the nature and difficulties of presidential influence and effectiveness, presidential authority within our system of government, and the impact of presidential character. *Prerequisite: Gov. 111-112 or instructor's consent. 1 term — 3 semester hours. Normally offered every year.*

Government 347 — Legislative Process. The structure and functioning of legislatures. Particular emphasis on the U.S. Congress, how it works and how it compares with other legislatures. The role of legislatures in a democracy. *Prerequisite: Gov. 111-112. 1 term — 3 semester hours. Normally offered every year.*

Government 355 — American Parties and Politics. Historical overview of party development in the U.S. and of ideological and political trends as reflected in voting behavior. Recent developments in party structure, electoral strategies and political style. The party "crisis" vs. the "art" of political campaigning. *Prerequisite: Gov. 111-112 or consent of instructor. 1 term — 3 semester hours. Normally offered alternate years.*

Government 357 — Urban Politics and Government. This course examines the political processes and problems characteristic of big cities in the United States today. Students are encouraged to do individual and group research on specific urban political topics. *Prerequisite: Gov. 111-112 or instructor's consent. 1 term — 3 semester hours. Normally offered every year.*

Government 363 — American Foreign Policy. A decision-making approach to understanding the domestic political and institutional context of U.S. foreign policy. Includes analysis of continuity and change since WW II using case studies of critical decisions, e.g., Korea, Cuba, Vietnam, etc. *Prerequisite: Gov. 111-112 or consent of instructor. 1 term — 3 semester hours. Normally offered alternate years.*

Government 374 — Research Methodology in Public Affairs. Philosophical study of scientific methods and techniques, history of the philosophy of science, controversies in social science, comparisons of different logic systems and methodological traditions, role of theory in problem and hypothesis formulation and research design. *1 term — 3 semester hours. Normally offered alternate years.*

Government 375 — Applied Research Methods in Public Affairs. Application of quantitative and qualitative methods and techniques in the discovery, collection, analysis and interpretation of social science data. Observational, experimental and survey methods. Techniques of instrument construction, sampling design, data processing and statistical analysis. *Prerequisite: Gov. 374. 1 term — 3 semester hours. Normally offered alternate years.*

Government 376 — Political Economy. Underlying relationships between economic and political factors in society. History of political economy, materialist versus idealist philosophy, transition among stages of development, relationship between base and superstructure, definition of systems crisis, contemporary social and political formations. *1 term — 3 semester hours. Normally offered alternate years.*

Government 383 — African Politics. The political development of Africa in colonial and post-colonial periods. Analysis of the evolution of governmental institutions includes economic, social, and personal factors; political forces at work in present day Africa. *Prerequisite: Gov. 111-112 or instructor's consent. 1 term — 3 semester hours. Normally offered alternate years.*

Government 385 — Soviet Politics and Economy. Marxian doctrine as interpreted by Lenin, Stalin and others and its influence on Soviet society. The Party's organization and control of government; Soviet foreign policy; the planned economy, its growth and partial development away from Marxism. *1 term — 3 semester hours. Normally offered alternate years.*

Government 387 — Politics of Latin America. A study of Latin American political institutions and the major forces affecting their evolution. The role of the military, clergy, labor groups, and outside economic and political interests in shaping governmental policies and institutions. *Prerequisite: Gov. 111-112 or instructor's consent. 1 term — 3 semester hours. Normally offered alternate years.*

Government 389 — Politics of China. Emphasis on a particular approach to the problems of economic modernization and political development. Historical background; Mao's Thought and the revolutionary movement; present political structures and current issues. *Prerequisite: Gov. 111-112 or consent of instructor. 1 term — 3 semester hours. Normally offered alternate years.*

Government 433 — Topics in Public Policy. Using the techniques learned in Gov. 224, students will make an intensive study of a current policy issue. *Prerequisite: Gov. 224. 1 term — 3 semester hours. Normally offered every third year.*

Government 435 — Race and Public Policy. Public policy's impact on Blacks, Chicanos, Native Americans, Puerto Ricans, and other minority groups; how public policy has contributed to racial oppression; policies for attaining racial equality; political strategies of minority groups. *1 term — 3 semester hours. Normally offered every third year.*

Government 463 — International Law and Organization. Examination of the development, principles and role of international law in the last two centuries; a study of the Charter, activities and politics of the United Nations Organization, its specialized agencies, NATO and other regional organizations. *1 term — 3 semester hours. Normally offered every year.*

Government 473 — American Political Thought. Reading and discussion of original works by significant American political thinkers such as *The Federalist* and works by Paine, Jefferson, Calhoun, Thoreau, Sumner, Reed, Dewey, Lippman, Goodman, King, Malcolm X, Carmichael, Hamilton, Friedan, and Dellinger. *1 term — 3 semester hours. Normally offered alternate years.*

Government 475 — Socialist Political Thought. Socialist theories of the state, class consciousness, revolution. The views of major socialist thinkers of the 19th and 20th centuries including Marxists, anarchists and evolutionary socialists. *1 term — 3 semester hours. Normally offered alternate years.*

Government 483 — Politics of Europe. Comparative study of politics in Europe's post-industrial societies and in selected countries of southern and eastern Europe. Includes Europe's experience with liberal democracy, social democracy, facism, and communism; challenges of European integration. *Prerequisite: Gov. 111-112 or instructor's consent. 1 term — 3 semester hours. Normally offered alternate years.*

Government 485 — Politics of the Middle East. Interlocking themes making the contemporary Middle East an area of chronic conflict: Big Power rivalries; social and political change within individual countries; unity and rivalry involved in Arab nationalism; the Palestinian-Israeli-Arab dispute. *1 term — 3 semester hours. Normally offered alternate years.*

Government 487 — Japan: Politics and Policy. Examining Japanese political culture, structures, processes and public policies. Historical background; the relationship between government and business; Japan as an advanced industrial society; problems of interdependence for Japan and the West. *1 term — 3 semester hours. Normally offered alternate years.*

Government 505 — Studies in Government. Individual program of reading and research on an approved topic under the supervision of a member of the department. For qualified juniors and seniors. *Prerequisite: instructor's consent and approval of department chairperson. 1 term — 3 semester hours. Offered every semester.*

Government 509 — United Nations Seminar. Intensive study of the U.N., its subsidiary bodies, and their role in international relations. Research on a particular African member-state, acquisition of knowledge of U.N. processes and procedures, and seminar paper required of each student. *Prerequisite: competitive examination by the instructor; international relations or African politics courses desirable but not required. 1 term — 3 semester hours. Normally offered every year.*

Government 521 — Internship in Government. Approximately 12 hours a week working in a government-related position designed to give the student more responsibility and learning opportunity than is normally available in an entry-level job. Interested students should consult instructor in advance. *Prerequisite: Junior standing, consent of instructor, and concurrent enrollment in Gov. 522. 1 term — 3 semester hours. Normally offered every semester.*

Government 522 — Internship Seminar. Weekly seminar for students in the government internship program. The internship experience will be used in the discussion and testing of theories of bureaucracy, public administration, and organization presented in the reading assignments. *Prerequisite: Concurrent enrollment in Gov. 521 or equivalent experience. 1 term — 3 semester hours. Normally offered every semester.*

Government 523 — Washington Internship (Fall or Spring). A full-time, one-semester internship in Washington, D.C. Consult the Department office for more details. *Prerequisite: junior standing; limited to 5 students per semester, chosen by competitive application. 1 term — 12 semester hours.*

Government 524 — Washington Internship (Summer). Full-time summer internship in Washington, D.C. Consult the Department office for more details. *1 full summer session — 9 semester hours.*

Government 525 — Washington Seminar. Available in conjunction with Gov. 523 or 524. *1 term — 3 semester hours.*

Government 595 — Honors Colloquium in Political Science. Student-faculty colloquium involving substantial reading, discussion and the presentation of original papers. Limited to juniors and seniors of high academic standing and with sufficient background in political science. Applications due in November. *1 term — 3 semester hours. Normally offered every spring semester.*

History

Department of History

Professors: Cavanagh (Chairperson), Robbins, Sarafian
Associate Professor: Greenberg
Lecturers: Sheik-Abdi, Zybala
Professors Emeriti: Fang, Farley, Floyd, Hartmann.

A major in History provides students with an understanding of the relationships between the contemporary world and the world of the past. History majors receive excellent preparation for graduate study in the Law, as well as for careers in Teaching, Journalism, Public Relations, and Communications, among others.

A major must complete 30 semester hours in History, with a concentration in one of the following tracks of study:

Track I — American History: History 101-102 (Western Civilization) or History 121-122 (Foundations of the Modern World) or History 151-152 (World Civilization); History 181-182 (American History); 12 semester hours of American History courses; 6 semester hours of non-American History courses (3 European, 3 other).

Track II — European History: History 101-102 or History 121-122 or History 151-152; History 181-182; 12 semester hours of European History courses; 6 semester hours of non-European history courses (3 American, 3 other).

Track III — Third World History: History 101-102 or History 121-122 or History 151-152; History 181-182; 12 semester hours of Third World History courses; 6 semester hours of non-Third World History courses (split between two fields).

Track IV — Women's History: History 101-102 or History 121-122 or History 151-152; History 181-182; 12 semester hours of Women's History courses; 6 semester hours of non-Women's History courses (split between two fields).

Track V — Pre-Law: History 101-102 or History 121-122 or History 151-152; History 181-182; History 211-212 (British History); 6 semester hours of American History courses; 6 semester hours of non-American History courses (split between two fields).

Track VI — History and Literature: History 101-102 or History 121-122 or History 151-152; History 181-182; History 421-422 (European Cultural and Intellectual History); 12 semester hours of History courses on the area — and period — on whose literature the student is concentrating (British Isles, Europe, or the United States).

Track VII — History and Science: History 101-102 or History 121-122 or History 151-152; History 181-182; History 421-422; History 423 (Science and Society since the Renaissance); History 483 (Death, Disease, and Healing in American Society); 6 semester hours of History courses (3 American, 3 non-American) relevant to the related electives chosen.

The second part of any sequential History offerings may be taken prior to the first part (e.g. History 102 may be taken before History 101). Each part is taught as a separate entity.

Some of the courses listed are offered every year, others in alternate years, and some only in every third year. By consulting with members of the Department, students may ascertain what courses will be presented during their Sophomore, Junior, and Senior years. History majors are urged to acquaint themselves with this rotating procedure.

To be considered for Honors in History, a student must have, at graduation, compiled a grade point average of 3.3 or above in at least 15 semester hours of History courses taken at Suffolk University. Honors will be awarded only to those candidates who suc-

cessfully complete the following program: a one-semester Historiography Seminar (History 503); and an Honors Thesis to be written over the period of one semester, using a History 500 (Studies in History) course as the vehicle. The Thesis will be read, and either accepted or rejected for Honors designation, by a Departmental Honors Committee.

Integrated Studies 511 — "The Machine", may be credited toward the major in History.

History Courses

History 101 - 102 — History of Western Civilization. A survey of European culture and society from antiquity to the present. Topics include: the Greek, Judaic, and Roman heritage; Christianity; the Middle Ages; the Renaissance and Reformation; the Scientific and Industrial Revolutions; imperialism and socialism. *2 terms — 6 semester hours. Offered yearly.*

History 121-122 — Foundations of the Modern World. A topical approach to World Civilization. Subjects include Sex and Sex Roles; Science, Technology and Human Values; Economic and Social Structures; Art and Mass Culture; Medicine and Health; Education; and Race and Ethnicity. *2 terms — 6 semester hours. Offered alternate years.*

History 151-152 — History of World Civilization. A survey of the major cultural groupings in the world community from the beginnings of civilization to modern times. Major attention is given to Mesopotamian, Egyptian, Indian, Chinese, Greco-Roman, African, Amerindian, Judeo-Christian, and Islamic civilizations. *2 terms — 6 semester hours. Offered alternate years.*

History 181-182 — American History. A survey of such topics as colonial politics and society; the American Revolution; the Age of Jackson; sectionalism and slavery; industrialization; America's rise to world power; the Great Depression; the two world wars and Vietnam; culture and counter-culture. *2 terms — 6 semester hours. Offered yearly.*

History 201-202 — History of Business in the Western World. An analysis of business in the west from the Roman Empire to the present. Stressed is the relation of business to government, religion, and society as a whole; and the impact of emerging labor organizations upon business. *2 terms — 6 semester hours. Offered every third year.*

History 211-212. — British History. England, Scotland, and Wales from Celtic times: the development of the English monarchy after 1066; Tudor and Stuart absolutism; the Civil War; industrialization; the British Empire and world leadership; transition from aristocracy to democracy. *2 terms — 6 semester hours. Offered alternate years.*

History 213 — History of the British Empire and Commonwealth. The first British Empire (1607-1783); the second British Empire in the 19th century; dominion and Commonwealth status; the constituent territories of the Empire; their relationship with Britain, and their interrelationship within the Empire. *1 term — 3 semester hours. Offered every third year.*

History 221-222 — European Diplomatic History. European diplomacy from its modern origins in Renaissance Italy to the present; major alliance systems, wars, and treaties from the Thirty Years War to NATO; the foreign policies of major European powers and the central causes of the rivalries between them. *2 terms — 6 semester hours. Offered every third year.*

History 241-242 — History of the Middle East. The first semester traces ancient Middle East backgrounds, Christianity, Islam, Byzantium, and the Ottoman and Persian area to 1828; the second semester is on Ottoman and Persian developments; the Armenian Revolution; the Arab Awakening; the rise of constitutional movements; and Israel. *2 terms — 6 semester hours. Offered every third year.*

History 251 — The Far East. The history and cultures of Eastern Asia; diplomatic, political, social, and economic developments within China, Korea, and Japan during the past two centuries. *1 term — 3 semester hours. Offered every third year.*

History 252 — India and Southeast Asia. India and Southeast Asia before and under European imperial control; liberation; contemporary problems. *1 term — 3 semester hours. Offered every third year.*

History 261 — African History to 1800. The history of sub-Saharan Africa from "prehistoric" times to 1800. Topics include: the peoples of Africa; the concept of kinship; the formation of states; the spread of Islam; the slave trade; and economic and social transformations. *1 term — 3 semester hours. Offered every third year.*

History 262 — Modern African History since 1800. The history of sub-Saharan Africa from 1800 to the present. Topics include: the abolition of the slave trade; Islamic, and Zulu, revolutions; European imperialism and colonialism; African resistance and national movements; and social and economic development. *1 term — 3 semester hours. Offered every third year.*

History 271-272 — Afro-American History. Afro-American history and culture in the United States from its origins to the present. Topics include: the slave trade and slavery; the Civil War and Reconstruction; segregation; the role of the Black church; and the Civil Rights Movement. *2 terms — 6 semester hours. Offered alternate years.*

History 281-282 — American Social and Cultural History. American society from the settlement of the colonies until the present. Topics include: Puritanism; witchcraft; Revolutionary society; social mobility; the image and reality of the West; Amerindians; Women; Blacks; labor and labor violence; urbanization and industrialization. *2 terms — 6 semester hours. Offered every third year.*

History 291 — American Diplomatic History to 1898. U.S. foreign policy from the American Revolution to 1900. Emphasized are: America's relations with Europe, the Caribbean, and Far East; the War of 1812; the Monroe Doctrine and Manifest Destiny; the Civil and Spanish-American Wars. *1 term — 3 semester hours. Offered every third year.*

History 292 — American Diplomatic History since 1898. Modern U.S. foreign policy, emphasizing: Dollar Diplomacy, World War I and the League of Nations, disarmament, the Good Neighbor Policy, the menace of imperial Japan and Hitler, and the quest for international security since World War II. *1 term — 3 semester hours. Offered every third year.*

History 301-302 — The Ancient World. A problem-centered approach to the political, social, intellectual and cultural development of the Ancient Near East, Egypt, Greece, the Hellenistic World, the Roman Republic and the Roman Empire, emphasizing readings from ancient authors. *2 terms — 6 semester hours. Offered every third year.*

History 311 — Cultural History of the Middle Ages. An analysis of civilization in Europe from the fall of the Roman Empire in the West to the High Middle Ages, with special emphasis upon the transformation of learning and developments in the arts. *1 term — 3 semester hours. Offered every third year.*

History 312 — The Renaissance and the Reformation. The Italian Renaissance, the Renaissance in the North, Humanism and Pietism, effects of the Age of Discovery, the Protestant Revolt, the Catholic Reformation, new religious sects, the Wars of Religion. *1 term — 3 semester hours. Offered every third year.*

History 321 — The Age of Kings and Philosophers. From the Peace of Westphalia to the French Revolution, 1648-1789; French absolutism, Europe in the age of Louis XIV, French hegemony, the Dutch Republic, the rise of Prussia and Russia, the *ancien regime*, the Enlightenment. *1 term — 3 semester hours. Offered every third year.*

History 322 — The French Revolution and Napoleon. 1789-1815: the background and outbreak of revolution; the French Republic; the Reign of Terror; the European impact of the Revolution; the career of Bonaparte; Napoleonic warfare; the rise, fall and significance of the Empire. *1 term — 3 semester hours. Offered every third year.*

History 331-332 — Eastern Europe. Byzantine and Ottoman influences; role of Poland-Lithuania; Hungarian-Bulgarian-South Slavic history. The second semester covers the nationalistic period and liberation movements since 1800. *2 terms — 6 semester hours. Offered every third year.*

History 351 — History of Japan to 1800. This course considers the evolution of Japan's political and social institutions and the development of Japan's distinctive cultural tradition from prehistoric times to the late Tokugawa period in the early nineteenth century. Illustrative materials will be widely used. *1 term — 3 semester hours. Offered every third year.*

History 352 — History of Japan since 1800. Japan's "modern transformation," stressing events from Commodore Perry's opening of Japan (1853) and the Meiji Restoration (1868) to the present. Emphasized are Japan's twentieth century world life and her relations with the U.S. *1 term — 3 semester hours. Offered every third year.*

History 371 — Women in American History. The activities and influence of women in America from the colonial period to the present. Major themes: women's health, political change, sexuality, work roles, and particularly the impact on women of social class and race. *1 term — 3 semester hours. Offered alternate years.*

History 372 — Women in History: Europe and the Third World. An exploration of the activities of women in European and Third World history, from ancient to modern times. Topics include: women's work roles; development of contraception; peasant societies; women in revolutionary societies, especially China. *1 term — 3 semester hours. Offered every third year.*

History 373 — History of the Family in American and European Society. A comparative history of family structures in America and Europe. Topics include: family life in premodern and modern societies; changing psychology and functions of families; history of childhood; impact of revolutions on family patterns. *1 term — 3 semester hours. Offered every third year.*

History 374 — American Urban History. The development of cities in American history from the colonial period to the present. Major themes: ethnic and racial urban problems; living conditions in cities; urban-rural tensions; the culture of cities. *1 term — 3 semester hours. Offered every third year.*

History 375 — History of American Immigration. American immigrants studied from colonial times. Topics include: immigrant origins; factors encouraging immigration; immigrant adaptation to America; native reactions to immigrants; achievements and contributions of ethnic groups; current immigration conditions. *1 term — 3 semester hours. Offered every third year.*

History 376 — History of the Women's Movement. Rise of social and political movements for women's rights in modern America and Europe; the Suffrage Movement; women in capitalist and socialist societies; challenges of the new American women's movement, 1960s-1980s. *1 term — 3 semester hours. Offered every third year.*

History 377 — Women and Religion in America. Topics include: women in the formation of Judeo-Christian tradition; women in American religions and Roman Catholicism; women's leadership in non-mainstream churches; religion and politics in women's lives. *1 term — 3 semester hours. Offered every third year.*

History 381 — American Colonial History. The course emphasizes: the founding and settlement of the colonies; their social, economic, and political development; the British-French struggle for control of the North American continent; the Great Awakening; the background and causes of the American Revolution. *1 term — 3 semester hours. Offered alternate years.*

History 382 — Era of the American Revolution. This course provides an in-depth analysis of the background, progress and results of the American Revolution. Emphasis is placed upon military aspects of the War for Independence, and on post-war efforts to establish a permanent workable American government. *1 term — 3 semester hours. Offered alternate years.*

History 383 — Boston: The Heritage of a City. The development and influence of Boston from its foundation in 1630: the Massachusetts Bay Colony, cradle of the American Revolution; Boston as a Yankee merchant capital, Brahmin cultural center, immigrant melting pot, and modern metropolis. *1 term — 3 semester hours. Offered every third year.*

History 384 — Military History of the Modern World. Western warfare from the Renaissance to the present, stressing strategy and tactics, weapons development and use. In-depth study of the American Revolutionary War, Napoleonic warfare, the American Civil War, World Wars I and II; and the Nuclear Age. *1 term — 3 semester hours. Offered alternate years.*

History 391 — The Young Nation: U.S. History, 1789-1850. America's early national history, from President Washington to pre-Civil War sectional strife. Topics include Hamilton's and Jefferson's impact, the War of 1812, Marshall and the Court, nationalism and westward expansion, Jacksonian democracy, the Mexican War, slavery and sectionalism. *1 term — 3 semester hours. Offered alternate years.*

History 392 — The American Civil War and Reconstruction. Topics include the antebellum reform and expansion movements, especially as they affected slavery, and the deepening sectional crisis of the 1850's. An in-depth analysis of the violent Civil War which followed, and Southern Reconstruction to 1877. *1 term — 3 semester hours. Offered alternate years.*

History 393 — America: The Old and New South. The American South from colonial times to the present. Topics include: slavery, plantation life, sectional strife and Civil War; Reconstruction and racism; the civil rights struggle, and the dynamic "New South". *1 term — 3 semester hours. Offered every third year.*

History 394 — Slavery. Seminar on the history and nature of dependency. Consideration of the ideas of Hegel, Marx, Jefferson and American proslavery theorists, as well as the practice of slavery in the ancient world, Asia, Africa, and the Americas. *1 term — 3 semester hours. Offered every third year.*

History 411-412 — Europe since 1815. The political, economic, and social development of the principal European states from 1815 to the present: 19th-century Nationalism; Industrialization; Socialism; Imperialism; Militarism; World War I; Bolshevism and Fascism; World War II; the Cold War. *2 terms — 6 semester hours. Offered every third year.*

History 413 — Dictators to Detente: Contemporary Europe. An in-depth study of European history since 1939: World War II; the Cold War; economic recovery and the disintegration of blocs; the development of detente, and movement toward European integration. *1 term — 3 semester hours. Offered every third year.*

History 414 — Nazi Germany. German and European preconditions; the Versailles Treaty and the failure of the Weimar Republic; Hitler's ideas, collaborators, and institutions; Nazi foreign and domestic policy; World War II and the concentration camps. *1 term — 3 semester hours. Offered every third year.*

History 415 — Ireland: From the Celts to the Present. Irish origins and medieval background; Anglo-Irish history from the Tudor invasion of Ireland in 1534 to the present will be explored in greater detail, with emphasis on the interrelationship between developments in the two nations. *1 term — 3 semester hours. Offered every third year.*

History 416 — Italy: From the Caesars to Mussolini. The Roman and Holy Roman Empires; Renaissance and commercial prosperity; occupation and stagnation; the Italian Enlightenment; the Risorgimento; unification by Cavour; the failure of Italian parliamentarianism; the turn to Mussolini and his fall. *1 term — 3 semester hours. Offered every third year.*

History 421-422 — Intellectual and Cultural History of Modern Europe. The educated classes of Europe, their sociology and their culture, from the Renaissance to the present: the Scientific Revolution, the Enlightenment, the French Revolution, 19th-century Liberalism and Conservatism, Socialism, and 20th-century Irrationalism. *2 terms — 6 semester hours. Offered every third year.*

History 423 — European Science and Society since the Renaissance. The ancient, scholastic, and alchemical forerunners of modern science, the Scientific Revolution of the 17th century, the Newtonian absolutism of the Enlightenment, Positivism, the Darwinian Revolution of the 19th century, and the New Science of our century. *1 term — 3 semester hours. Offered every third year.*

History 431-432 — History of Russia. Rise of the Russian state and people; social and political developments through the reign of Nicholas I, to 1855. The second semester deals with Russia's efforts to modernize, the emancipation of the serfs; twentieth century Czarist Russia, the Russian Revolutions, and the Soviet Union. *2 terms — 6 semester hours. Offered alternate years.*

History 433 — The Russian Revolution. The origins, events, and aftermath of the Bolshevik Revolution, 1917-1929: conditions under the Czarist regime; the revolutionary underground; the February and October Revolutions; civil war and consolidation of Bolshevik power; Lenin, Trotsky, Stalin. *1 term — 3 semester hours. Offered every third year.*

History 451 — History of China to 1800. The cultural, intellectual, and political history of China from prehistoric times to 1800; in-depth consideration of Chinese philosophy, literature, fine arts and folklore. Museum trips are undertaken to view such exhibits as Chinese bronzes and Buddhist art. *1 term — 3 semester hours. Offered every third year.*

History 452 — History of China since 1800. This course includes topics related to China's "modern transformation" in the nineteenth and twentieth centuries, the background and rise of Chinese Communism and the development of the People's Republic of China, and Chinese-American relations to the present. *1 term — 3 semester hours. Offered every third year.*

History 483 — Death, Disease and Healing in American History. American medicine from the eighteenth century to the present. Topics include: public health, epidemics, alternative medical systems, the medical profession, medical education, women and medicine, genetic manipulation, insanity, the development of hospitals and medical ethics. *1 term — 3 semester hours. Offered every third year.*

History 484 — Crime, Law and Society in U.S. History. American crime from the Puritans to the present. Topics include: punishment, witchcraft, mobs, crime and slavery, origins of prisons and police, criminal insanity, juvenile justice, prohibition, the Klan, organized crime, and women and crime. *1 term — 3 semester hours. Offered every third year.*

History 485 — History of American Law. A topical seminar on the social history of American law from the 17th century to the present. Topics include law and the economy, the law of slavery, the legal profession, the courts, administrative law, torts. *1 term — 3 semester hours. Normally offered every third year.*

History 491 — The Gilded Age: U.S. History, 1877-1914. The major political, economic and social forces in Victorian America from Reconstruction to World War I. Topics include: business-government interrelationships, industrialization with its attendant problems, American imperialism and the Spanish-American War, the Populist revolt, and Progressive reform. *1 term — 3 semester hours. Offered every third year.*

History 492 — The United States in the Twentieth Century. America's emergence as a world power; the Progressive era; U.S. intervention in World War I, and its consequences; depression in the 1930's; the New Deal and World War II; major developments since 1945. *1 term — 3 semester hours. Offered yearly.*

History 500 — Directed Studies in History. By special arrangement, members of the department will schedule seminars, or individual discussion sessions, with students interested in directed reading and research. Open to Juniors and Seniors, with the permission of the instructor. *1 term — 3 semester hours. Offered each semester on demand.*

History 503 — Historiography Seminar. The various schools and philosophers of history writing from the 18th century to the present; approaches to historical analysis; and the sources and skills that each approach requires. A limited-enrollment honors seminar. *1 term — 3 semester hours. Offered alternate years.*

History 505 — Western Civilization Seminar. A seminar on one theme of major importance, such as Legal Thought, or Utopian Communities. Each student will also lead a discussion class of History 102 students. Open only by permission of the instructor. *1 term — 3 semester hours. Offered alternate years.*

History 506 — Revolutions: Theory and Practice. The history of revolutions from ancient times to the present. Topics include the Spartacus revolt; Marxism and other revolutionary theories; the American and French Revolutions; the Latin American Revolutions; and the Russian and Chinese Revolutions. *1 term — 3 semester hours. Offered every third year.*

Humanities

Department of Humanities and Modern Languages

Professors: Chiasson, Hastings, Mendez-Herrera
Associate Professors: Parks, Smythe, Weitz (Chairperson)
Assistant Professor: Hourtienne
Lecturers: Kelton, Radtke
Professors Emeriti: Fang, Fehrer, Goodrich, Petherick.

Requirements for a major are satisfied by completion of 30 hours of course work in Humanities, to include Introduction to the Humanities (6 hours) and the Seminar (6 hours). With permission of a Humanities and Modern Languages advisor, certain courses in History may also be included in the student's major program.

The Humanities major provides an integrated approach to the study of civilization, with particular emphasis on the Art, Literature, Music and Religions of the Western World.

Senior Humanities majors are encouraged to do up to 6 credit hours of intern work with local museums, historical societies, or art galleries, under arrangements made by the Department.

A Minor concentration in Humanities requires 18 hours of course work, as follows:

Humanities 101-102	6 hours
Humanities 305, 306, 307, 308, 309, 310, 311, 312	6 hours
Humanities 401-402	6 hours

Humanities Courses

Humanities 101 — Introduction to the Humanities, I. Presentation and analysis of various artistic and literary productions of Western Civilization from the Ancient World through the Middle Ages. Discussion of the cultural value systems that produced particular movements in the arts, literature, architecture and music. *3 semester hours. Offered yearly.*

Humanities 102 — Introduction to the Humanities, II. Presentation and analysis of selected artistic and literary materials from Western cultural movements from the Renaissance to the present. *3 semester hours. Offered yearly.*

Humanities 103 — History of the Visual Arts, I. A survey of the visual arts from prehistoric times through the Middle Ages. Painting, sculpture, architecture and the minor arts are examined from the perspective of their time and place in history. *3 semester hours. Offered yearly.*

Humanities 104 — History of the Visual Arts, II. A survey of the visual arts from the Renaissance to the present, with a particular view toward the historical significance of selected works of painting, sculpture, architecture and minor arts in these periods. *3 semester hours. Offered yearly.*

Humanities 105 — Art Studio Workshop. A course that provides a place in which students can work in a variety of mediums, in response to their needs and interests, under supervision of Art Studio faculty. Discussion of the use of materials (painting, drawing, sculpting), and exchange of ideas with other students. *1 term — 3 semester hours. Offered yearly.*

Humanities 106 — Art Studio Advanced Workshop. A course in which students can work on individual projects in a variety of mediums, under supervision of Art Studio faculty. Constructive assistance provided for creative efforts in painting, drawing, sculpting in wood, paper or metals. *1 term — 3 semester hours. Offered yearly.*

Humanities 113 — Introduction to Commercial Art, I. Elements of composition, design, layout, color, graphics, with a view toward commercial applications in advertising and related fields. *1 term — 3 semester hours. Offered in alternate years.*

Humanities 114 — Introduction to Commercial Art, II. Under the supervision of Art Studio faculty, students will execute several assigned projects typical of those required in commercial applications of art. Discussions of effective use of art in advertising and related fields. *1 term — 3 semester hours. Offered in alternate years.*

Humanities 115 — Photography I. Basic photography for the beginner; mechanics of lenses; film characteristics; dark room operations; picture making; composition. During the second half of this practical course students will accompany the instructor on film-shooting trips in the Boston area. *1 term — 3 semester hours. Normally offered every summer.*

Humanities 116 — Photography II. Advanced techniques of picture-making: the modern camera and its accessories. Film-shooting trips to nearby areas. Specialty photography, according to the student's interest. *1 term — 3 semester hours. Normally offered every summer.*

Humanities 207-208 — Design for the Visual Arts. A basic course, to develop fundamental skills in visual communication. Problem solving in two and three-dimensional design using a variety of approaches and mediums. *2 terms — 6 semester hours. Offered yearly.*

Humanities 209-210 — Drawing. Introduction to the basic principles of drawing: a study of perspective and three-dimensional form. *2 terms — 6 semester hours. Normally offered yearly.*

Humanities 211-212 — Painting. Introduction to the use of oils: problems in painting techniques. Creative work will be encouraged. *2 terms — 6 semester hours. Normally offered yearly.*

Humanities 215-216 — Silk-screen Printing. An introduction to basic silk-screen techniques with emphasis on developing skills in the use of color and design. *2 terms — 6 semester hours. Offered yearly.*

Humanities 217-218 — Religions of the World. An overview of major historical religions, including American Indian religions, African religions, Hinduism, Buddhism, Judaism, Christianity, and Islam. *2 terms — 6 semester hours. Normally offered alternate years.*

Humanities 223-224 — Contemporary Feminist Theology. An in-depth study of contemporary writings on the traditional role of women in major world religions, the widening perceptions of feminist theology in the twentieth century, and present issues such as the gender of God and male-female imagery in Western religions. *2 terms — 6 semester hours. Normally offered in alternate years.*

Humanities 305 — Art and Civilization of Greece and Rome. Painting, sculpture and architecture of ancient Greece and Rome in their cultural context. Emphasis on the temple form and the representation of the ideal human figure in Greece. Engineering achievements, portrait sculpture and wall paintings of the Roman Empire. *1 term — 3 semester hours. Normally offered in alternate years.*

Humanities 306 — Art and Civilization of the Middle Ages. Religious and secular painting, sculpture, architecture and the minor arts in the context of medieval civilization. Included are Byzantine mosaics, Carolingian manuscripts, Romanesque monastery churches and Gothic cathedrals. *1 term — 3 semester hours. Normally offered in alternate years.*

Humanities 307 — Art and Civilization of the Renaissance. Painting, sculpture and architecture of the 15th and 16th centuries in Europe as they relate to the interests and ideas of the times. Artists include Masaccio, Botticelli, Leonardo da Vinci, Raphael, Michelangelo, Jan van Eyck, Bosch, Durer and Bruegel. *1 term — 3 semester hours. Normally offered in alternate years.*

Humanities 308 — Art of the Baroque and Enlightenment. A study of the art and architecture of the late 17th and 18th centuries in Europe and America. Artists include Rembrandt, Caravaggio, Bernini, Fragonard, Greuze, Chardin. The Classical Revival, Thomas Jefferson. *1 term — 3 semester hours. Normally offered in alternate years.*

Humanities 309 — Art of the Nineteenth Century. A study of Realism, Romanticism, Impressionism, and Post-Impressionism in painting, sculpture and architecture. Artists include Courbet, Delacroix, Goya, Millet, Daumier, Monet, Manet, Van Gogh, Rodin, Renoir and Cézanne. *1 term — 3 semester hours. Normally offered every third year.*

Humanities 310 — Art of the Twentieth Century. A study of Symbolism, Art Nouveau, Cubism, Surrealism, Abstract Expressionism, Pop Art and Op Art in painting, sculpture and architecture. Artists include Matisse, Picasso, Dali, Klee, Brancusi, Gaudi, LeCourbusier, Gropius, Hepworth, and Chagall. *1 term — 3 semester hours. Normally offered every third year.*

Humanities 311 — Art of the United States. A study of the paintings, sculpture and architecture of U.S. artists. Smibert, Copley, Stuart, Bulfinch, Jefferson, Greenough, Richardson, Whistler, Sargent, Homer, Eakins, Wright, Benton, Pollack, Rauschenberg and Wyeth. *1 term — 3 semester hours. Normally offered every third year.*

Humanities 331 — Mythology and its Representation in the Ancient World. Western mythology considered at its sources in the Mycenaean, Greek and Roman civilizations. The nature and functions of myth, and its representation in architecture, art, cult and drama in the ancient world. Extensive use of audio-visuals, including films of selected Greek dramas. *1 term — 3 semester hours. Normally offered alternate years.*

Humanities 401-402 — Seminar in Humanities. Subject chosen annually in response to general questions on the interrelatedness of the arts and literature. Permission of instructor. *2 terms — 6 semester hours. Normally offered yearly.*

Humanities 501-502 — Independent study.

Interdepartmental Programs

No major available.

Integrated Studies

Coordinator: Dr. Greenberg

The College of Liberal Arts and Sciences is organized on the basis of Departments which offer courses by faculty well qualified as specialists in particular fields of study. While this traditional arrangement ensures that students have access to depth of education in their particular majors, it does not address all the important ideas, questions, and problems which are regarded as a legitimate part of an undergraduate education. These latter demand courses that integrate the points of view, insights, methods, and concepts of more than one discipline. Increasingly, the faculty of the College are developing such courses to enrich the curriculum; while some of these continue to be listed among the offerings of particular Departments, others are designated as "Integrated Studies" courses.

Integrated Studies 111-112 — Social Science and Humanities. This two-semester sequence uses materials drawn from several disciplines and is designed to help incoming freshmen develop the skills, habits of inquiry, and broadened range of interests necessary to pursuing a higher education successfully and independently. *Each half of the sequence carries 3 semester hours' credit. Sequence is offered every year and is required of all freshmen.*

Integrated Studies 511 — The Machine. Seminar on historical and philosophical issues concerning man's relationships with machines: eg. Do machines threaten humans? Can computers "think"? Are robots alive? Taught by a historian and a physicist. Advance permission of the instructors is required before registration. *1 term — 3 semester hours. Will be offered Fall 1985.*

Science

All Science courses must be taken with their respective laboratories unless otherwise noted or waived by written permission of the Biology or Physics Department Chairperson.

Science 101-102 — Introduction to Physical Science. Designed to acquaint non-science majors with physical science. Topics drawn from astronomy, physics, and chemistry, including questions relating to the nature of matter, physical laws, and the structure of the universe. *Prerequisite: Math 111, 112 or Math 143 or Math 161. 2 terms — 6 semester hours. Normally offered yearly.*

Science L101-L102 — Physical Science Laboratory. Basic laboratory measurements illustrating fundamental concepts in the physical sciences. *2 terms — 2 semester hours. Normally offered yearly.*

Science 111 — Introduction to Planetary Astronomy. History of Astronomy from the ancients to Newton; light; telescopes; sun, earth, moon, planets, comets, asteroids, meteors; space programs, science and technology in society. Observations and photographic sessions with Celestron 8 inch cassegrain and 2 inch refractors. For non-science majors. *Prerequisite: Math 111, 112 or Math 143 or Math 161. 3 semester hours. Normally offered yearly. Fall term.*

Science 112 — Introduction to the Universe. Astronomy of the cosmos; Sun, stars, interstellar material, galaxies, pulsars, quasars, black holes; nature of time, relativity, cosmology. Observations and photographic sessions with Celestron 8 inch cassegrain and 2 inch refractors. For non-science majors. *Prerequisite: Math 111, 112 or Math 143 or Math 161. 3 semester hours. Normally offered yearly. Spring term.*

Science 113 — Introduction to Celestial Navigation. Principles of position-finding by lunar, sun, planet and star sights. Use of the sextant, chronometer, almanac, sight reduction tables, and plotting instruments. Laboratory experience includes taking sights and lines of positions, and pocket calculator navigation. *Prerequisite: Math 111, 112 or Math 143 or Math 161. 1 term — 3 semester hours. Normally offered yearly.*

Science 114 — Coastal Navigation. The magnetic compass, its characteristics and corrections. Dead reckoning; course, speed and distance. The depth sounder for course reference and correction. Hand bearing compass and line of sight position fixes. RDF, radio direction finder and radio beacons. LORAN and precise electronic position finding techniques. *Prerequisite: Math 111, 112 or Math 143 or Math 161. Normally offered yearly.*

Science L111-L112 — Astronomy Laboratory I, II. Laboratory concentrating on observational astronomical techniques both in the classroom and under the stars using telescopes, astrophotography, and computer simulation. Some labs meet evenings. Lab should be taken in conjunction with Science 111, 112. *2 terms — 2 semester hours. Normally offered yearly.*

Science L115 — Navigation Laboratory. Practical use of the techniques of Coastal Navigation and Celestial Navigation in an at-sea environment. The laboratory experience will include electronic navigation methods, LORAN-C and RDF, as well as DR and celestial navigation at night. Students will be required to make available one or more weekends during the academic term for an instructional cruise by sail and/or power. *Permission of instructor required. Prerequisite: Science 113 or Science 114. 1 term — 2 semester hours. Normally offered in alternate years.*

Science 121 — Basic Chemical Science. Principles of chemistry with illustrations from everyday life. Topics include an introduction to atoms; radioactivity; chemistry of selected elements; chemical compounds; chemcial equations; stoichiometry; solutions; acids, bases, salts, and water; gases; air and water pollution. May be used as credit by non-science majors only. 3 hours lecture. Laboratory optional. *1 term — 3 semester hours. Normally offered yearly, days only.*

Science 122 — Applied Chemical Science. Organic chemistry and biochemistry are discussed. Other topics emphasize applications of techniques and may include: chemical instrumentation, industrial chemistry, agricultural chemistry, food chemistry, household chemistry, chemistry of medicines, forensic chemistry, and energy. May be used as science credit by non-science majors only. 3 hours lecture. Laboratory optional. *Prerequisite: Science 121. 1 term — 3 semester hours. Normally offered yearly, days only.*

Science L121-L122 — Basic Chemical Science Laboratory and Applied Chemical Science Laboratory. The principles of chemistry and its applications demonstrated through experimentation. 2-hour laboratory period. *Concurrent enrollment in Science 121-122 required. 2 terms — 2 semester hours. Normally offered yearly, days only.*

Science 205 — New Directions: Science and Technology. Science/high technology participation course — for those undecided about a particular major but interested in investigating opportunities in science. Incorporates introduction to basic physics concepts (mechanics, energy, heat, electricity) with introduction to high-technology opportunities through field trips, guest speakers, career information. *Prerequisite: Math 111, 112 or Math 143 or Math 161. 1 term — 3 semester hours. Normally offered yearly.*

Science L205 — Science and Technology Lab. Basic laboratory measurements illustrating fundamental concepts in physical science. Field trips to near-by high-technology firms. *1 term — 1 semester hour. Normally offered yearly.*

Science 233 — Introduction to Environmental Science Technology. A field or laboratory program conducted during a six-month residency at an affiliated agency. Oral and written reports are required. Each program is directed by an agency supervisor interacting with a faculty sponsor. *Prerequisite: approval of Biology Department Chairperson and sophomore status. 12 credits — 12 semester hours.*

Science 251 — Introduction to Coastal Geology I. A broad overview of the physical and geological processes of the coastal zone. Coastal environments will be analyzed with an emphasis on the important environmental management characteristics of these areas. 3 hours lecture. *1 term — 3 semester hours.*

Science L251 — Introduction to Coastal Geology I Laboratory. An introduction to laboratory and field techniques used in the geological study of coastal environments. Field trips will be taken to local coastal areas. 3 hours laboratory. *1 term — 1 semester hour.*

Science 252 — Introduction to Coastal Geology II. Near shore and off-shore coastal areas stressed with a consideration given to management problems involving offshore oil, gas development, sand and gravel mining and other continental margin and deep ocean basin activities. 3 hours lecture. *1 term — 3 semester hours.*

Science L252 — Introduction to Coastal Geology II Laboratory. An introduction to laboratory and field techniques uses in the geological study of coastal environments. Field trips will be taken to local coastal areas. 3 hours laboratory. *1 term — 1 semester hour.*

Science 253 — Introduction to Marine Studies. A multidisciplinary, interinstitutional course with marine-related topics from the humanities, social sciences, and natural sciences. Lecture, laboratory and field trips. *1 term — 4 semester hours.*

Science 433 — Advanced Environmental Science Technology. A field or laboratory program conducted during a six-month residency at an affiliated agency. Oral and written reports are required. Each program is directed by an agency supervisor interacting with a faculty sponsor. *Prerequisite: approval by Biology Department Chairman and senior status. 12 credits — 12 semester hours.*

Science 533 — Environmental Science — Directed Study. Part time involvement with a laboratory or field-oriented project at a local agency. Ten contact hours, a project report and a monthly seminar required. Course may be repeated for up to 24 semester hours. *Prerequisite: approval of Biology Department Chairman. 3 semester hours.*

Science 599 — Special Topics. A course with special interest topics in science which are interdisciplinary or multidisciplinary. Primarily for graduate-level students or advanced, upperclass undergraduates. The course carries a special designation indicating the specific science focus. *Prerequisites: Advanced science standing consistent with the subject matter content of the special topic. 1 term — 1-4 semester hours.*

Social Science

Social Science F213 — Computer Applications in the Social Sciences. An introduction to computer use without programming. Emphasis is on applications software and decision making in social research and policy. Beginning with Minitab, survey research data are manipulated and summarized to quantify the decision making process. Applications packages may include Minitab, SPSS, LOGLIN, TSP, and others. *No previous knowledge of computers expected. 1 term — 3 semester hours. Normally offered every semester.*

Social Science F313 — Advanced Computer Applications in the Social Sciences. A more advanced course in computer applications software. Topics may include: database management problems, data cleaning, more advanced computational statistics including use of BMDP, and a research project in an area of computer applications. *1 term — 3 semester hours. Normally offered alternate years. Consent of instructor required.*

Women's Studies

Women's Studies Advisory Committee: Dr. Bain, Convener; Dr. Berg, Dr. Diliddo, Prof. Dushku, Prof. Hughes, Dr. Lloyd, Dr. Mandl, Dr. Mattei, Dr. Richmond, Dr. Spitzer, Dr. Todd, and Ms. Zybala.

Minor in Women's Studies

The Women's Studies minor contains interdisciplinary courses as well as courses taught within a number of departments in the College of Liberal Arts and Sciences. The minor is designed to develop and integrate knowledge about women within the academic curriculum, and provide a focus for students wishing to expand their understanding of the problems of and options for women within our own and other sciences.

Courses constituting the minor in Women's Studies are devoted to an exploration of how women have confronted the biological, cul-

tural, economic, political, psychological, religious and sociological conditions of their lives, as well as their changing concerns in historical and contemporary societies.

Required Core Component 6 credits

Women's Studies 111 — Women, History and Culture
Women's Studies 113 — Women, Science and Society

Designated Course Component 12 credits

Four courses to be chosen from the following list. No more than two from any single department. Page numbers indicate location of course descriptions in this catalog.

English 387 — Women and Literature (p. 128)
Government 203 — Women in Politics (p. 135)
History 371 — Women in American History (p. 142)
History 372 — Women in History: Europe and the Third World (p. 142)
History 376 — History of the Women's Movement (p. 142)
History 377 — Women and Religion in America (p. 142)
Humanities 223 — Contemporary Feminist Theology, I (p. 146)
Humanities 224 — Contemporary Feminist Theology, II (p. 146)
Psychology 235 — Psychology of Being Male and Female (p. 188)
Sociology 273 — Women in Contemporary Society (p. 199)
Sociology 275 — Women and Crime (p. 199)
Sociology 286 — Women and Work (p. 199)
Sociology 355 — Women and Health (p. 198)

Special Topics

Some students may wish to include specialized research in their minor. They may do so by including, as part of their 12 designated course credits, 3 credits of "directed study" using the designation, Women's Studies 511 — Directed Study in Women's Studies.

Information/Advising

Students wishing to minor in Women's Studies should contact the Convener of the Women's Studies Advisory Committee.

Women's Studies Courses

Women's Studies 111 — Women, History and Culture. Examines the roles and images of women in Western culture, as reflected in such areas as: art, literature, religion, myths, philosophy, and history. *1 term — 3 semester hours. Normally offered alternate years.*

Women's Studies 113 — Women, Science and Society. Women's lives from the perspective of the social and natural sciences: recent biological, sociological and psychological theories about sex and gender roles; women's action for social change. *1 term — 3 semester hours. Normally offered alternate years.*

Women's Studies 511 — Directed Study in Women's Studies. Substantive reading/research in an area of special interest directed by a faculty member in the appropriate academic discipline. Open to junior and senior minors in Women's Studies by special arrangement with the relevant faculty member and the student's Women's Studies advisor. *1 term — 3 semester hours. Offered every semester.*

International Economics

Coordinators: Hastings, Mohtadi

The Department of Economics and the Department of Humanities and Modern Languages offer under joint sponsorship a career-oriented program that combines theory of international economics and trade with practical training in a foreign language, and the political, economic and cultural history of the foreign people.

International Economics is offered in both the B.A. and B.S. format. In recent years there has been a notable trend in many American industries, in which increasing emphasis is placed on broad liberal arts background in the employee recruitment process. Students who wish to acquire this broad liberal preparation should select the B.A. format. The foreign language requirement for that degree is automatically met by the language requirement of the Program itself. Students who wish to acquire the maximum depth of professional expertise in international business will select the B.S. option, which places a relatively strong emphasis upon the systems of economic interchange that link nations together in the world community.

Students are advised that the International Economics major requires acceptable progress toward practical competency in the selected foreign language, as determined by a qualifying examination given every April. Students who fail a qualifying foreign language examination are placed on probation for one semester, and advised to do additional foreign language work during the summer. A second unsuccessful examination, normally given in September, requires dismissal from the Program. Course requirements are as follows:

B.A. Degree

Freshman	Sem. Hrs.
English	6
Integrated Studies	6
Math	6
Humanities Option Requirement	3
Social Science Option Requirement	3
Free Electives	6
	30

Sophomore	Sem. Hrs.
English	6
Logic, Speech	6
Foreign Languages	6
Economics 281, 282	6
Accounting 211, 212	6
	30

Junior	Sem. Hrs.
Business Electives	6
Foreign Languages	6
Natural Science Option Requirement	8
Social Science F213	3
Economics 291, 292, 383	9
	32

Senior	Sem. Hrs.
Foreign Languages	6
Foreign Language Seminar	3
Area Studies Electives*	6
Social Science Option Requirement	3
Economics 441, 442	6
Free Electives	6
	30

B.S. Degree

Freshman	Sem. Hrs.
English	6
Integrated Studies	6
Math	6
Humanities Option Requirement	3
Social Science Option Requirement	3
Free Electives	6
	30

Sophomore	Sem. Hrs.
English	6
Logic, Speech	6
Foreign Languages	6
Economics 281, 282	6
Accounting 211, 212	6
	30

Junior	Sem. Hrs.
Foreign Languages	6
Economics 291, 292, 383	9
Social Science F213	3
Government 261	3
Natural Science Option Requirement	8
Area Studies Elective*	3
	32

Senior	Sem. Hrs.
Foreign Languages	6
Economics 441, 442, 444	9
Finance 310, 417	6
Government 463	3
Free Electives	6
	30

Students may select French, German, or Spanish as their foreign language and area of study. Those who enter the program with considerable previous foreign language experience will be advised and required to take alternate foreign language, economics, or Area Studies courses.

***Area Studies** courses are appropriate courses offered by several departments through which students can broaden their knowledge of the nations or regions in which the language is spoken.

The following is a list of appropriate Area Studies courses:

Government: 261, 262, 283, 383, 387, 463, 483, 485, 487.
History: 121, 122, 151, 152, 201, 202, 241, 242, 251, 252, 262, 352.
Sociology: 263, 266, 294.

As part of their Area Studies electives, B.A. students must take at least one of the following:

Government 261
History 122

Journalism

Department of Journalism

Associate Professor: Barach (Chairperson)
Assistant Professors: McCoy, Peary, Preiss
Senior Lecturers: Cornell, McLean
Lecturers: Guilford, Smith

The curriculum is designed to provide both a broad Liberal Arts education and practical training for students seeking careers in Journalism, Bilingual (Spanish) Communication, Mass Communication, Public Relations, Film Communication, Marketing Communication, Science Communication and Technical Communication. To achieve these goals, the Department of Journalism supplements its professionally oriented courses by drawing on the resources of the College of Liberal Arts and Sciences, School of Management and, by affiliation, Emerson College. In addition, students obtain practical experience through class assignments involving on-the-scene reporting, use of a United Press International facility and through participation in relevant activities such as the *Suffolk Journal* (student newspaper), the *Suffolk Evening Voice* (evening division student newspaper), [WSUB-TV] (closed-circuit television operation), [WSFR] (radio outlet), *Venture* (literary magazine), *The Beacon* (yearbook) and the Society of Professional Journalists, Sigma Delta Chi.

The School of Management makes available courses in accounting, management, marketing, finance and banking and business administration to Journalism students interested in preparing for careers in marketing communication.

By affiliation with Emerson College, courses in mass communications and film production are available to Suffolk Journalism majors as part of their normal course load. Students should consult the Emerson College catalogue for a complete list of courses. (See Cross-Registration details on p. 83.)

Major Requirements The Journalism major consists of 30 semester hours of course credit. Twenty-four semester hours in required core courses are included with the major. The selective electives are to be chosen with the approval of the major advisor from a list of courses recommended by the Department of Journalism.

All students majoring in Journalism must have their course selections approved each term by an advisor from the Department of Journalism. Failure to comply with this regulation may result in loss of credit toward graduation.

Major Core Courses

Journ. 113 Introduction to Journalism
Journ. 114 News Writing
Journ. 213 Law of Communications
Journ. 219 History of Journalism
Journ. 313 Reporting Fundamentals
Journ. 317 Copy Editing
Journ. 413 Feature and Special Articles
Journ. 414 Advanced Reporting

Bachelor of Science Degree in Journalism

Freshman	Sem. Hrs.
Integrated Studies	6
First Year English	6
Introductory Math	6
Option Requirement	6 or 8
Major Core Courses	6
	30 or 32

Sophomore	Sem. Hrs.
Second Year English	6
Logic/Speech	6
Foreign Language (B.A.) or Humanities Option (B.S.)	6
Option Requirement	6 or 8
Major Core Courses	6
	30 or 32

Junior	Sem. Hrs.
Major Core Courses	6
Option Requirement	6 or 8
Related Electives	6
Free Electives	12
	30 or 32

Senior	Sem. Hrs.
Major Core Courses	6
Major Journalism Courses	6
Related Electives	6
Free Electives	12
	30

Areas of Concentration

The curriculum provides eight Tracks of Areas of Concentration within the Journalism major. To ensure the completion of required courses within four years, students should select a specific Track by the start of their sophomore year.

Track A: Journalism and English.

This program is intended for students whose main interest is in newspaper, magazine and literary writing.

	Sem. Hrs.
Major Core Courses	24
Journalism Electives	6
	30

	Sem. Hrs.
English Electives	12
English Electives: Any two English courses on the 300 or 400 level in literature or creative writing	6
	18

Track B: Journalism and Bilingual (Spanish) Communication.

This program is specially designed for students interested in careers in bilingual journalism. (A comparable program in French is available.)

	Sem. Hrs.
Major Core Courses	24
Journ. 319 Semantics of Journalism	3
Journ. 417 Minority Press in America	3
	30

	Sem. Hrs.
Spanish	18
Span. 201-202 Intermediate Functional Spanish	
Span. 207-208 Hispanic Culture	
Span. 306 Hispanic Heritage in the United States	
Span. 501 Directed Studies in the Spanish Press in the Americas. (See Dept. of Humanities and Modern Languages.)	
	18

Track C: Journalism and Broadcast Communication. (In conjunction with Emerson College.) This program is intended for students whose interests lie in the areas of Journalism and Radio and Television Communications.

	Sem. Hrs.
Major Core Courses	24
Journ. 433 Broadcast Journalism-Radio	3
Journ. 434 Broadcast Journalism-Television	3
	30

	Sem. Hrs.
Specialized Major Options Electives	12
Journ. 243 Introduction to Public Relations	
Journ. 253 Documentary Film	
Journ. 218 Photojournalism	
Journ. 316 Press and Society	
Journ. 355 The American Cinema	
Journ. 363 Copywriting	
Journ. 319 Semantics of Journalism	
Journ. 415 Critical Writing for the Media	
Journ. 416 Great Works in Journalism	
Journ. 453 The Television Documentary	
Journ. 443 Propaganda and the Mass Media	
Journ. 417 Minority Press in America	
And other courses in mass communications and film.	
	12

Track D: Journalism and Public Relations. This program is intended to prepare students who wish to combine work in Journalism and Public Relations.

	Sem. Hrs.
Major Core Courses	24
Journ. 243 Introduction to Public Relations	3
Journ. 443 Propaganda and the Mass Media	3
	30

	Sem. Hrs.
Specialized Major Options Electives	12
Journ. 253 Documentary Film	
Journ. 218 Photojournalism	
Journ. 303 Financial Journalism	
Journ. 316 Press and Society	
Journ. 318 The Magazine	
Journ. 363 Copywriting	
Journ. 319 Semantics of Journalism	
Journ. 416 Great Works in Journalism	
Journ. 453 The Television Documentary	
Journ. 417 Minority Press in America	
C.Sp. 275 Business and Professional Communication	
C.Sp. 335 Persuasion	
C.Sp. 375 Organizational Communication	
	12

Track F: Journalism and Film Communication. (In conjunction with Emerson College.) This program is intended for students whose interests lie in the areas of Journalism and Film Communication.

	Sem. Hrs.
Major Core Courses	24
Journ. 253 Documentary Film	3
Journ. 453 The Television Documentary	3
	30

	Sem. Hrs.
Specialized Major Options Electives	12
Journ. 218 Photojournalism	
Journ. 316 Press and Society	
Journ. 319 Semantics of Journalism	
Journ. 355 The American Cinema	
Journ. 415 Critical Writing for the Media	
Journ. 416 Great Works in Journalism	
Journ. 433 Broadcast Journalism-Television	
Journ. 443 Propaganda and the Mass Media	
MC 207 Film Basics	
And other courses in mass communications and film.	
	12

Track G: Journalism and Marketing Communication.* This program is intended for students who wish to work in business and industry in areas such as advertising, sales and market research and employee communication. The School of Management provides courses in marketing, management, accounting, finance and banking and business administration.

	Sem. Hrs.
Major Core Courses	24
Mkt. 310 Principles of Marketing	3
Journ. 363 Copywriting	3
	30

	Sem. Hrs.
Specialized Major Options Electives	12
Journ. 243 Introduction to Public Relations	
Journ. 253 Documentary Film	
Journ. 218 Photojournalism	
Mgmt. 310 Introduction to Management	
Journ. 303 Financial Journalism	
Mkt. 315 Promotion Management	
Journ. 316 Press and Society	
Journ. 318 The Magazine	
Mkt. 317 Consumer Behavior	
Journ. 383 Introduction to Technical Communication	
Journ. 319 Semantics of Journalism	
Mkt. 319 Marketing Research	
Journ. 443 Propaganda and the Mass Media	
Journ. 453 The Television Documentary	
And other courses in mass communications and film.	
	12

**The School of Management specifies prerequisites before students can take such courses as Mkt. 310, Principles of Marketing. Students should consult the school's bulletin for the requirements.*

Track S: Journalism and Science Communication. This program is intended for students who have a strong scientific interest and who seek careers as journalists covering the science field.

	Sem. Hrs.
Major Core Courses	24
Journ. 273 Introduction to Science Communication	3
Journ. 374 Science Communication in Modern Society	3
	30

	Sem. Hrs.
Science Electives	12
Students should select sequences in Biology, Chemistry or Physics. Selections cannot duplicate requirement.	
	12

Track T: Journalism and Technical Communication. This program is intended for students who wish to pursue a career in technical communication.

	Sem. Hrs.
Major Core Courses	24
Journ. 383 Introduction to Technical Communication	3
Journ. 384 Technical Communications: Principles and Procedures	3
	30

	Sem. Hrs.
Specialized Major Options Electives	12
Journ. 243 Introduction to Public Relations	
Journ. 273 Introduction to Science Communication	
Journ. 253 Documentary Film	
Journ. 218 Photojournalism	
Journ. 303 Financial Journalism	
Journ. 374 Science Communication in Modern Society	
Journ. 316 Press and Society	
Journ. 318 The Magazine	
Journ. 363 Copywriting	
Journ. 319 Semantics of Journalism	
Journ. 415 Critical Writing for the Media	
Journ. 416 Great Works in Journalism	
Journ. 453 The Television Documentary	
Journ. 443 Propaganda and the Mass Media	
Journ. 417 Minority Press in America	
And other courses in mass communications and film.	
	12

Journalism Courses

Journalism 113 — Introduction to Journalism. A survey of the journalistic field designed to acquaint the student with what the profession of journalism has to offer. It studies the newspaper, magazine and electronic media in contemporary American society and examines the social obligations of journalism and its operation as a business unit. With newspaper journalism as a foundation, basic journalism copy will be discussed, written and analyzed. *1 term — 3 semester hours. Normally offered yearly.*

Journalism 114 — News Writing. A study of news, news values and news sources and the lead, style and structure of news stories. Practice in writing basic news copy and elementary field experience in the coverage of a news story. *1 term — 3 semester hours. Normally offered yearly.*

Journalism 213 — Law of Communications. An examination of the basic rules and principles of law governing journalists in a democratic society. The course will cover such areas as libel, slander, invasion of privacy and the right to know. *1 term — 3 semester hours. Normally offered yearly.*

Journalism 218 — Photojournalism. An examination of the role of photography in the journalistic process. A discussion of photography as communicator and a survey of the history of photography. *1 term — 3 semester hours. Normally offered alternate years.*

Journalism 219 — History of Journalism. A survey exploring the evolution of the press in the United States. Emphasis will be placed on the newspaper and magazine. *1 term — 3 semester hours. Normally offered yearly.*

Journalism 243 — Introduction to Public Relations. The basic principles and techniques of public relations are examined. *1 term — 3 semester hours. Normally offered yearly.*

Journalism 253 — Documentary Film. A study of the history and theory of nonfiction film and its role as a means of modern communication. *1 term — 3 semester hours. Normally offered yearly.*

Journalism 273 — Introduction to Science Communication. A basic examination of the theories and techniques of writing and editing scientific articles for the news media. The relationship of the journalist to the scientific community also is studied. *1 term — 3 semester hours. Normally offered alternate years.*

Journalism 303 — Financial Journalism. A study of the basic aspects of financial reporting and writing. *Prerequisite: Journ. 113. 1 term — 3 semester hours. Normally offered every third year.*

Journalism 313 — Reporting Fundamentals. The principles and techniques of basic news reporting are studied and applied. Also an introduction to and analysis of interpretative reporting, "alternative" and "new" journalism. *Prerequisite: Journ. 114. 1 term — 3 semester hours. Normally offered yearly.*

Journalism 316 — Press and Society. A study of how the news media and society interact and affect each other. *1 term — 3 semester hours. Normally offered yearly.*

Journalism 317 — Copy Editing. A study of the fundamentals of copy editing, newspaper typography and makeup, with training in the principles and practice of all three. *Prerequisite: Journ. 113 or Journ. 114. 1 term — 3 semester hours. Normally offered yearly.*

Journalism 318 — The Magazine. A study of selected contemporary magazines. Their design, layout, style, editing and content are examined. Also included is an examination of how a magazine is planned, edited and published. *Prerequisite: Journ. 113. 1 term — 3 semester hours. Normally offered alternate years.*

Journalism 319 — Semantics of Journalism. Basic principles of semantics are applied to the use of language in the media in an effort to develop more sensitivity to words and their effects on human behavior and thought. *Prerequisite: Journ. 113 or Journ. 114. 1 term — 3 semester hours. Normally offered yearly.*

Journalism 355 — The American Cinema. A social, political and economic history of the American cinema from the silent era to the present, including a survey of Hollywood filmmaking and independent alternatives to the Hollywood studio system. *Prerequisite: Journ. 253. 1 term — 3 semester hours. Normally offered alternate years.*

Journalism 363 — Copywriting. A study of the principles and techniques of writing advertisements. *1 term — 3 semester hours. Normally offered alternate years.*

Journalism 374 — Science Communication in Modern Society. A more advanced examination of writing and editing scientific material for the media. Particular problems and challenges of the communicator of sciences also are explored. *Prerequisite: Journ. 113 or Journ. 273. 1 term — 3 semester hours. Normally offered alternate years.*

Journalism 383 — Introduction to Technical Communication. An overview of the methods and media used in communicating scientific, medical and industrial information. Emphasis on the tools and journalistic techniques of the professional writer/communicator, including technical illustration, videotape and still photography. Written assignments do not require a technical background and are supplemented with laboratory instruction in design and page makeup. *1 term — 3 semester hours. Normally offered alternate years.*

Journalism 384 — Technical Communication: Principles and Procedures. A study of the more advanced principles and techniques of technical writing and editing. Students develop, write and edit technical documents for users of apparatus and equipment. *Prerequisite: Journ. 383 or instructor's permission. 1 term — 3 semester hours. Normally offered alternate years.*

Journalism 413 — Feature and Special Articles. Writing and submitting for publication articles for newspapers, magazines and syndicates. *Prerequisite: Journ. 313. 1 term — 3 semester hours. Normally offered yearly.*

Journalism 414 — Advanced Reporting. Experience in the more difficult reporting and writing assignments. Interpretative (analytical) and investigative news stories are studied and written. Some stress on covering state and local government and the courts. *Prerequisite: Journ. 114 or Journ. 313. 1 term — 3 semester hours. Normally offered yearly.*

Journalism 415 — Critical Writing for the Media. An examination of the theories and techniques of critical writing for the media. *Prerequisite: Journ. 113. 1 term — 3 semester hours. Normally offered alternate years.*

Journalism 416 — Great Works in Journalism. A study of the language and techniques of noted journalists writing in English from earlier eras until the present. *Prerequisite: Journ. 113. 1 term — 3 semester hours. Normally offered alternate years.*

Journalism 417 — Minority Press in America. A study of the role and impact of minority group publications in the United States. *Prerequisite: Journ. 113. 1 term — 3 semester hours. Normally offered alternate years.*

Journalism 433 — Broadcast Journalism-Radio. The study and practice of gathering, writing and editing news for radio. *Prerequisite: Journ. 114. 1 term — 3 semester hours. Normally offered yearly.*

Journalism 434 — Broadcast Journalism-Television. A study and practice of gathering, writing and editing news for television. *Prerequisite: Journ. 114 or Journ. 433 and instructor's consent. 1 term — 3 semester hours. Normally offered alternate years.*

Journalism 443 — Propaganda and the Mass Media. A study of the theories and techniques of persuasion in relationship to the complex structure and function of the mass media. *Prerequisite: Journ. 113. 1 term — 3 semester hours. Normally offered alternate years.*

Journalism 453 — The Television Documentary. A study of the history of television documentaries from 1950 to the present with emphasis upon script writing and video production. *Prerequisite: Journ. 253 or permission of instructor or advisor. 1 term — 3 semester hours. Normally offered alternate years.*

Journalism 513 — Advanced Studies in Journalism. Academically qualified students in their senior year may elect to do independent research in a specialized area of journalism. *Advisor's permission is required. 1 term — 3 semester hours. Normally offered yearly.*

Journalism 514 — Internship in Journalism. Qualified students in their junior or senior year may choose to obtain relevant journalism experience via an internship. *Advisor's permission is required. 1 term — 3 semester hours. Normally offered yearly.*

Journalism 515 — Institute on Journalistic Techniques and Newspaper Advising. Offered in conjunction with *The Boston Globe. 1 term — 3 semester hours.*

Journalism 531-532 — Seminar in Television News and Public Affairs. An advanced examination of the principles and procedures of television journalism, with a stress on practical experience. Consent of the instructor or department chairperson is required. *2 terms — 6 semester hours. Normally offered yearly.*

Mathematics

Department of Mathematics and Computer Science

Professors: Ezust (Chair), Cohn, Hajj, Myrvaagnes
Associate Professor: VoVan
Assistant Professors: Edwards, Humphrey
Instructor: N. Dokos
Master Lecturers: Jenner, Martuccelli
Senior Lecturers: Donovan, Filan, Hsiung, Mana, Michalopoulou, Najafabadi, Nasereddin, Pourghasemi, Zangenah
Lecturers: Finn, Lofti, Niknejad

The mathematics major program is generally used to prepare a student for further study in pure or applied mathematics at the graduate level. To broaden their career path options, most of our math majors also minor in computer science. The combination of a math major with a computer science minor provides a good basis for entering the job market immediately upon graduation or for pursuing further studies in graduate or professional school.

Our Mathematics/Education and Mathematics/Computer Science/Education programs lead to certification by the Massachusetts State Department of Education for teaching mathematics at or below the secondary level. Since there is considerable room within these programs for electives, it is possible to satisfy additional certification requirements.

The math major program, even with the addition of a minor in another discipline, contains a substantial block of elective courses within which a student can construct a pre-professional program that is best suited to his or her needs and tastes.

The department also offers a minor program in mathematics which can be used to complement a major program in another discipline.

Mathematics Major Programs

The requirements for a major in mathematics include 30 hours of mathematics and additional courses in computer science and physics as follows:

Major Course Requirements

Mathematics: (30 hours)
- Mathematics 161-162 (Calculus I and II)
- Mathematics 261-262 (Calculus III and IV)
- Mathematics 431-432 (Linear Algebra and Abstract Algebra)
- Mathematics 461-462 (Analysis I and II)
- Mathematics Elective Courses*

*Additional courses totalling six hours must be chosen from mathematics courses numbered 200 or higher.

Complementary Major Requirements

Computer Science: (6 hours)
- Computer Science 131-132 (Computer Programming I and II)

Physics: (8 hours)
- Physics 151-152, L151-L152 (University Physics and Lab)

Mathematics Major

(Suggested Course Sequence)

Freshman	Sem. Hrs.
First-Year English	6
Integrated Studies	6
Mathematics 161-162	6
Physics 151-152 & L151-L152	8
Computer Science 131-132	6
	32

Sophomore	Sem. Hrs.
Second-Year English	6
Logic and Speech	6
Language (B.A.) or Humanities (B.S.)	6
Mathematics 261-262	6
Free Electives	6
	30

Junior	Sem. Hrs.
Social Sciences	6
Mathematics 431-432 or 461-462	6
Mathematics Electives	6
Free Electives	12
	30

Senior	Sem. Hrs.
Humanities	3
Social Sciences	3
Mathematics 461-462 or 431-432	6
Free Electives	18
	30

Mathematics/Education and Mathematics/Computer Science/Education

The requirements for a Mathematics/Education degree include 30 semester hours of Mathematics and additional courses in Computer Science, Physics, and Eduction, distributed as follows:

Major Course Requirements

Mathematics: (30 hours)
- Mathematics 161-162 (Calculus I and II)
- Mathematics 261-262 (Calculus III and IV)
- Mathematics 341-342 (Probability and Mathematical Statistics)
- One of the following two course sequences
  - Mathematics 281-282 (Discrete Mathematics I and II)
  - Mathematics 351-352 (Geometry and Topology)
- One of the following two course sequences
  - Mathematics 431-432 (Linear Algebra and Abstract Algebra)
  - Mathematics 461-462 (Analysis I and II)

Education: (24 hours)*
- Education 101 (Introduction to Education in American Society)
- Education 203 (Foundations of Education)
- Education 204 (Educational Psychology)
- Education 443-444 (Curriculum and Methods of Science and Mathematics Education)
- Education 500 (Practicum — 9 hours)

Complementary Major Requirements

Computer Science: (6 hours)
- Computer Science 131-132 (Computer Programming I and II)

Physics: (8 hours)
- Physics 151-152, L151-L152 (University Physics and Lab)

To earn the Mathematics/Computer Science/Education degree, a student must take sufficient additional course work to satisfy the Minor requirements in Computer Science including:
- Computer Science 253 (Assembly Language and Computer Structure)
- Computer Science 265 (Data Structures and Algorithms)
- Computer Science Elective Courses
  [Additional courses to make a total of at least 18 hours. These courses are normally chosen from Computer Science courses numbered 200 or higher. Not more than three hours may be in "language" courses. Physics 351 (Introduction to Microprocessors) and Physics 352 (Microprocessor Interfacing) are acceptable choices. Substitution of any other courses requires written approval by the Chair of the Department of Mathematics and Computer Science.]

*The 1979 Requirements for the Certification of Teachers in Mathematics and the Sciences in Massachusetts require thirty-six hours of course work in the 'field of knowledge' and thirty hours of specified Education courses. The 'field of knowledge' requirements are met by combining the thirty hours of Mathematics with the six hours of Computer Science (listed above). The Education requirements are met by the twenty-four hours of Education courses listed above together with **English 101** (Freshman English) and **Communications and Speech 103** (Rhetoric and Communication).

Mathematics/Education and Mathematics/Computer Science/Education

(Suggested Course Sequence)

Freshman	**Sem. Hrs.**
First-Year English	6
Integrated Studies	6
Mathematics 161-162	6
Physics 151-152 & L151-L152	8
Computer Science 131-132	6
	32

Sophomore	**Sem. Hrs.**
Second-Year English	6
Logic and Speech	6
Language (B.A.) or Humanities (B.S.)	6
Mathematics 261-262	6
Free Electives [1]	6
	30

Junior	**Sem. Hrs.**
Education 101, 203	6
Education 443-444	6
Mathematics 281-282 or 351-352	6
Mathematics 341-342	6
Free Electives [2]	6
	30

Senior	**Sem. Hrs.**
Humanities	3
Social Sciences	3
Mathematics 431-432 or 461-462	6
Education 204	3
Education 500 (Practicum)	9
Free Electives	6
	30

Students in the Mathematics/Computer Science/Education program should substitute the following Computer Science courses for Free Electives in the Sophomore and Junior years:

[1] Computer Science 253 and 265
[2] Computer Science Elective Courses (as described above)

The Mathematics Minor

To qualify for a minor in Mathematics, a student must successfully complete 18 hours of course work in mathematics distributed as follows:

Mathematics 161-162 (Calculus I and II)
Mathematics 261-262 (Calculus III and IV)
Mathematics Elective Courses
[Additional courses totalling six hours must be chosen from mathematics courses numbered 200 or higher.]

Mathematics Courses

Mathematics 111 — Finite Mathematics I. Topics include truth tables, sets, combinations and permutations, and elements of probability theory. *Prerequisite: An adequate background in high school mathematics. 1 term — 3 semester hours. Normally offered each semester.*

Mathematics 112 — Finite Mathematics II. Topics include algebra of vectors and matrices, systems of linear equations, linear programming, and additional algebraic topics. *Prerequisite: MATH 111 (recommended). 1 term — 3 semester hours. Normally offered each semester.*

Mathematics 113 — Elementary Statistics. A brief review of probability theory, together with an introduction to statistical inference and the treatment of statistical data. *Prerequisite: MATH 111 or consent of instructor. 1 term — 3 semester hours. Normally offered each semester.*

Mathematics 143 — Precalculus Mathematics. A review of topics in algebra and analytic geometry intended for students needing one additional semester of preparation before taking calculus. *Prerequisite: At least 3 years of high school mathematics. 1 term — 3 semester hours. Normally offered each semester.*

Mathematics 161 — Calculus I. Functions, graphs, analytic geometry of lines and circles, limits, continuity, derivatives, differential calculus of algebraic functions; applications to rate problems, maxima and minima and curve sketching. *Prerequisite: Solid preparation in high school mathematics or MATH 143. 1 term — 3 semester hours. Normally offered each semester.*

Mathematics 162 — Calculus II. Antiderivatives; the definite integral with applications from geometry and physics; logarithmic, exponential, and trigonometric functions; techniques of integration. *Prerequisite: MATH 161. 1 term — 3 semester hours. Normally offered each semester.*

Mathematics 261-262 — Calculus III and IV. Indeterminate forms, improper integrals, Taylor's formula; infiniate sequences and series; vectors in the plane and in three-dimensional space; linear algebra; calculus of vector-valued functions; calculus of functions of several variables: partial derivatives, gradients, line integrals, multiple integration, applications. *Prerequisite: MATH 162. 2 terms — 6 semester hours. Normally offered each year.*

Mathematics 281-282 — Discrete Mathematics I and II. An introduction to graph theory, combinatorics, and selected parts of modern algebra, with emphasis on applications in computer science. Topics chosen from sets, propositions, permutations and combinations, graphs, trees, recurrence realtions, groups, Boolean algebra, and finite automata. *Prerequisite: MATH 261, which may be taken concurrently. 2 terms — 6 semester hours. Normally offered each year.*

Mathematics 341-342 — Probability and Mathematical Statistics I and II. Probability of finite sets; probability and statistics of continuous distributions; statistical inference and statistical models. *Prerequisite: MATH 162. 2 terms — 6 semester hours. Normally offered in alternate years.*

Mathematics 351 — Geometry. Topics chosen from such areas as foundations of geometry, non-Euclidean geometry, advanced Euclidean geometry, projective geometry, and convexity. *Prerequisite: MATH 262. 1 term — 3 semester hours. Normally offered in alternate Fall semesters.*

Mathematics 352 — Point Set Topology. An introductory study of topological spaces including: bases for topologies, metric spaces, separation and countability axioms, connectedness, compactness, product spaces, and continuity. *Prerequisite: MATH 262. 1 term — 3 semester hours. Normally offered in alternate Spring semesters.*

Mathematics 373 — Ordinary Differential Equations. A first course in differential equations. Topics generally include separable, homogenous, exact, and linear first order differential equations; integrating factors, higher order linear differential equations, variation of parameters, differential operators, the Laplace transform, inverse transforms, systems of differential equations, power series solutions, Fourier series, applications. *Prerequisite: MATH 262. 1 term — 3 semester hours. Normally offered in alternate years.*

Mathematics 375 — Numerical Methods. An introduction to the use of computers in solving mathematical problems and illustrating mathematical processes. Topics chosen from: finite differences, solution of nonlinear equations, interpolation, quadrature, curve fitting, splines, Monte Carlo methods, error analysis. *Prerequisites: CMPSC 132 and MATH 262. 1 term — 3 semester hours. Normally offered in alternate years.*

Mathematics 393 — Special Topics in Mathematics. *Content, prerequisites, and hours to be announced.*

Mathematics 431 — Linear Algebra. Elementary theory of abstract vector spaces. Topics include: Linear independence, bases, dimension, linear maps and matrices, determinants, orthogonality, eigenvectors and eigenvalues. *Prerequisite: MATH 262 or permission of instructor. 1 term — 3 semester hours. Normally offered in alternate Fall semesters.*

Mathematics 432 — Abstract Algebra. An introduction to elementary group theory, including properties of groups, subgroups, first isomorphism theorem for groups, normal subgroups, finite group classification; elementary properties of rings, such as homomorphisms of rings, ideals, fields, Euclidean algorithm, rings of polynominals, factorization theory, integral domains, associates, primes and units in domains. *Prerequisite: MATH 431. 1 term — 3 semester hours. Normally offered in alternate Spring semesters.*

Mathematics 461-462 — Analysis I and II. Topics chosen from real and complex analysis. *Prerequisite: MATH 262. 2 terms — 6 semester hours. Normally offered in alternate years.*

Mathematics 564-566 — Advanced Studies in Mathematics. Members of the department will hold conference hours with students and will direct their readings and study of topics in mathematics which may be of interest to them. *Prerequisite: Consent of instructor. 1 term — hours to be arranged.*

Mathematics 593 — Seminar. Seminars in advanced topics will be offered from time to time by members of the department. *Prerequisite: Consent of instructor. 1 term — hours to be announced.*

Military Science Program
(Army ROTC)

Department of Military Science

Director: Benway
Assistant Director: Motson
Administrative Specialist: Wise.

Army ROTC is an officer training program contractually agreed to by U.S. Army and Suffolk University as a means of providing students with the option of preparing themselves for leadership positions as Lieutenants in the National Guard, Army Reserve, or Active Army as well as increasing their qualification for the civilian job market. The instructional program for ROTC consists of two parts: the academic major in a recognized degree field, and courses in military science. Specific objectives of the department include: providing the student with an understanding of the nature and operations of the U.S. Army, developing the student's ability to think creatively and to speak and write effectively, encouraging the development of mental and moral standards essential to a professional officer. Laboratory periods allow students to put into practice the theories presented in academic instruction. The program focuses on developing in the student a basic understanding of the principles of leadership and management, and then provides ample opportunity to practice those skills in responsible positions within the cadet organization. The program provides for the precommissioning education of ROTC students and is designed to respond to the particular character and requirements of academic programs at Suffolk University.

Program Options. Military Science Programs are available in the following formats:

Four-Year Program. ROTC is a four-year program in which students take one Military Science Course each semester. The first two years comprise the Basic Course. Its purpose is to introduce freshman and sophomore students to such subjects as Organizational Structure of the Army, the Techniques and Principles of Leadership/Management, Military History, and Land Navigation.

After completing the Basic Courses, students who have demonstrated officer potential may enter the Advanced Course. Advanced Course students sign a contract with the Army. They must pass a qualifying physical examination and physical fitness test, and maintain a GPA of 2.00 or better. While enrolled in the Advanced Course, all students receive a monthly stipend of $100, up to a maximum of $2,000.

Students may enter the Four-Year Program at the beginning of either semester of the freshman year. Those who begin late must accelerate their course load. Under certain conditions first-semester sophomore students may also enter the basic course by taking both the freshman and sophomore-level courses in their sophomore year.

Freshman-Level Courses:
MLSCI 101 — American Military Heritage (Fall Semester)
MLSCI 102 — Land Navigation (Spring Semestr)

Sophomore-Level Courses:
MLSCI 201 — Organizational Behavior and Leadership (Fall Semester)
MLSCI 202 — American Military History (Spring Semester)

Junior-Level Courses:
MLSCI 301 — Small-Unit Tactics (Fall Semester)
MLSCI 302 — Pre-Advanced Camp Clinic (Spring Semester)

Junior/Senior Summer:
MLSCI 303 — Advanced Camp (Fort Bragg, NC, 6 weeks)

Senior-Level Courses:
MLSCI 401 — Military Justice and International Law (Fall Semester)
MLSCI 402 — Transition Seminar (Spring Semester)

All Levels:
MLSCI X101-X402 — Laboratory Period (Every Semester)

Two-Year Program. This program is designed for transfer students and those who have not had an opportunity to participate in the basic course. Students must have at least two academic years remaining. Entry under this program should be requested by mid-April prior to beginning the junior year. Students attend a six-week basic course at Fort Knox, Kentucky, during the summer between their sophomore and junior years. During this summer period the students receive one-half the basic pay of a lieutenant, prorated for the time of summer service, as well as travel expenses, food and lodging. Upon completion, they are authorized to enter the Army ROTC Advanced Course.

Veterans. Students with prior military service, those who have attended service academies and those with Junior ROTC (high school level) experience may be awarded credit for portions or all of the Basic Course. These students may complete all ROTC requirements in as little as two years, without having to attend the Basic Camp.

Simultaneous Membership Program (SMP). SMP students join the Army Reserve or National Guard at the same time they enroll in Army ROTC. The program provides on-the-job experience for cadets as well as financial compensation from both ROTC and their reserve component unit.

Academic Credit. For successful completion of the four-year ROTC program Suffolk University grants six semester hours of credit applicable toward graduation. Cadets who successfully complete a two-year program are granted three semester hours of credit. Grades earned in Military Science courses are included in the Student's GPA, but are not used in determination of Dean's List honors. In the calculation of graduation honors, the average for all ROTC courses is assigned to the six credit hours granted for successful completion of the four-year program.

Service Obligations. Basic Course students do not incur any military obligation. They may withdraw from the program at any time, subject to the same rules as withdrawal from any other course.

Advanced Course graduates receive a commission as a Second Lieutenant. Most serve as follows:

a. *Reserve Forces Duty (RFD)* — students may elect and be guaranteed this option, under which the officer serves on active duty for 3 to 6 months to complete specialty schooling. The officer then enters a civilian job and becomes a member of the Army Reserve or National Guard. The remainder of the 8-year obligation is spent in the Army Reserve or Army National Guard. It consists of one weekend of training with their unit each month, plus two weeks of active-duty training during the summer each year.

b. *Active Duty for Three Years* — Most students choose to go on active duty for three years followed by three years in a Reserve Component in a standby status. The current policy of the Department of Army is that graduates of the Army ROTC will be given this option if requested, if recommended by the Professor of Military Science and the ROTC Region Commander, and if Active Army vacancies exist.

c. *Active Duty for Four Years* — Students who have accepted an ROTC scholarship will serve on active duty for 4 years, or reserve forces duty for 8 years.

d. *Regular Army Commission* — Scholarship students and students designated Distinguished Military Students — based on academic standing, ROTC Advanced Camp performance, and demonstrated leadership — may qualify for a Regular Army Commission which denotes an indefinite period of active duty (subject to above minimums).

Army ROTC Scholarships. Army scholarships for attendance at Suffolk University are offered for three years, and two years. Four-year scholarships are awarded on a world-wide competitive basis to U.S. citizens who will be entering college as freshmen. The three and two-year scholarships are awarded competitively to students who are already enrolled in college and who may or may not currently be enrolled in ROTC. All awards are based on a student's merit regardless of financial need.

The scholarships pay for tuition, lab fees, and a living allowance of up to $1,000 each year the scholarship is in effect. In addition these scholarships provide an allowance for books and supplies based on the academic major of the student.

The value of the scholarship depends on the tuition and other educational costs of the university or college attended. Benefits at Suffolk University total approximately $5,000 annually.

The following general requirements apply. An applicant must:

1. Be a U.S. citizen.
2. Be 17 years of age by October 1 of the year in which the scholarship becomes effective.
3. Be able to complete all requirements for a college degree and be under 25 years of age on June 30 of the year in which commissioning will occur.
4. Be able to meet and maintain required medical standards.
5. Agree to serve four years active duty or 8 year reserve duty as a commissioned officer if the scholarship is accepted.

Applications should be submitted to the Military Science Department by the student in accordance with the following schedule:

3 year — April 1
2 year — February 16

Financial Assistance. Financial Assistance to Army ROTC cadets is provided in various forms. As explained above, scholarships are offered, and Advanced Course students receive a $100 monthly stipend. Other financial assistance includes:

1. Pay at ROTC camps:
   a. Basic Camp — Approximately $650 for the entire six-week period, plus room and board, plus travel expenses to and from camp.
   b. Advanced Camp — Approximately $650 for the entire six-week period, room and board, plus travel expenses to and from camp.
2. Each ROTC graduate receives an allowance of $300 for the purchase of Army uniforms when he or she reports for active duty.
3. Cadets assisting in the enrollment effort are paid $3 per hour.

Special Training (available on a competitive basis)

1. *Northern Warfare Training.* This three week course is designed to familiarize selected small-unit leaders with summer operations in northern areas. Emphasis is placed on movement in mountainous terrain, on glaciers, and on inland waterways. The course is conducted at the Northern Warfare Training Center, Fort Greely, Alaska.
2. *Air Assault Training.* Air Assault Training, a ten-day course conducted by the Air Assault School, 101st Airborne Div-

ision (Air Assault), Fort Campbell, Kentucky, teaches the cadet how to perform assault operations from helicopters. Successful completion of this school qualifies the cadet to wear the Air Assault Badge.

3. *Airborne Training.* Basic Airborne training, a three-week course conducted by the Airborne Department, United States Army Infantry Center, Fort Benning, Georgia, teaches the cadet how to parachute from aircraft. Successful completion of the course qualifies the cadet to wear basic airborne badge.
4. *Cadet Troop Leader Training (CTLT).* CTLT gives selected advanced course cadets first hand experience of what it is like to be a Commissioned Officer in the U.S. Army. CTLT provides them with leadership opportunities by assigning them to three weeks of duty with an active Army unit or two weeks of duty with a Reserve Forces unit during its period of annual training.
5. *Ranger Training.* Ranger training for cadets is an intense and physically demanding eleven-week leadership and patrolling course taught at and around Fort Benning, Georgia. The course includes air, mountain and tropical operations. Cadets who complete a minimum of six weeks receive credit for Advanced Camp completion. Those who graduate may wear the Ranger Tab.
6. *Cadet Flight Training and Orientation Program (CFTOP).* CFTOP is a one-month summer program held at Fort Rucker, Alabama, and provides cadets with 15 hours of helicopter flight instruction as well as an orientation on the current and probable future roles of Army aviators. Cadets successfully completing the program who are recommended for further training by their primary flight instructor may request additional flight training upon commissioning.

Military Science Courses

Basic Course

MLSCI 101 — American Military Heritage. (Freshman Level) The mission of the U.S. Army is studied, with emphasis on the customs, courtesies, and traditions of the Army, the Army pay and rank system, career opportunities, future education, and individual service obligations. *Offered each semester. 1.0 semester hour.*

MLSCI 102 — Land Navigation. (Freshman Level) The course focuses on the use of map and compass as land navigation tools. Includes instruction on the theory and practice of map making. Through class discussion and practical exercise, the student learns the techniques of navigating from point to point using the map and compass as a guide. *Spring semester. 1.0 semester hour.*

MLSCI 201 — Organizational Behavior and Leadership. (Sophomore Level) An examination of the leader's role in the development of a cohesive, well trained unit. Class discussion and case studies point out current theories in human behavior and motivation, and students practice counseling techniques in role playing exercises. The course focuses on building the student's self-confidence and leadership skills. *Fall semester. 1.5 semester hours.*

MLSCI 202 — American Military History. (Sophomore Level) The course covers the history of American warfare, from its inception to the present, stressing the organization and use of armies, concepts of strategy and tactics, and the development and use of weapons. *Spring semester. 1.5 semester hours. (Students may take History 384 when offered.)*

MLSCI X101-X102 — Laboratory Period. (All Levels) A required extension of all Military Science courses which provides an opportunity to practice the necessary skills that are inappropriate for classroom work. This includes the basics of military drill, physical training, and team work. *Offered each semester. 0 semester hours.*

MLSCI 203 — Basic Leadership Training. (Sophomore/Junior Summer) An intensive military training program that compresses the requirements of the freshman and sophomore level Military Science courses into one 6 week period. Given at Fort Knox, Kentucky, the course instills the basics of Military Leadership through a study of military history and traditions, map reading, land navigation, marksmanship, physical training, individual and unit tactics, first aid, drill and ceremony, and military courtesy and traditions. As a result of this training, students continuing to meet program requirements may enter the Advanced Course. *3 semester hours. 6 weeks.*

Advanced Courses

MLSCI 301 — Small Unit Tactics. (Junior Level) Study of current tactical doctrine to include planning and conduct of offensive, defensive and retrograde operations at the squad, platoon and company levels. Additional topics include "Know your enemy" and USAF and USN fire support. *Prerequisite: Basic Course Credit. Offered Fall semester. 1.5 semester hours.*

MLSCI 302 Pre-Advanced Camp Clinic. (Junior Level) Classroom, programmed and practical exercises designed to prepare cadets for maximum individual performance at advanced camp. Students are required to prepare and present instruction, organize training time and utilize training aids. The classroom work is supplemented by Field Training Exercises, and lab periods. *Prerequisite: Basic Course Credit. Spring semester. 1.5 semester hours.*

MLSCI 303 — Advanced Camp. (Junior/Senior Summer) External leadership laboratory conducted at Fort Bragg, NC. Intensive six week schedule includes the practical application of leadership principles in multiple positions at varying levels of responsibility. Students face stressful, demanding situations forcing them to draw upon both physical and mental reserves. Meeting these challenges develop the poise and self-confidence necessary for leadership. Supplemental instruction includes physical conditioning, counseling, senior-subordinate relations, tactical doctrine, international laws of land warfare, and approaches to problem solving. *Prerequisite: MLSCI 302. Summer semester. 6 weeks.*

MLSCI 401 — Military Justice and International Law. History of military law; the military justice system, including courts-martial and alternatives to courts-martial; international law governing land warfare, focusing on legal problems encountered by the junior officer. *Prerequisite: Basic Course Credit. Fall semester. 1.5 semester hours.*

MLSCI 402 — Transition Seminar. (Senior Level) A seminar discussion covering the transition from college student to Army Officer. Focuses on the issues, problems and challenges likely to confront the newly commissioned Army Lieutenant, to include military customs, courtesies, management relations, family dislocation, and career planning; responsibilities of an officer on active duty; military professionalism and ethics. *Prerequisite: Basic Course Credit. Spring semester. 1.5 semester hours.*

MLSCI X301-X402 — Laboratory Period. (All Levels) A required extension of all Military Science courses which provides the advanced course student the opportunity to plan, coordinate, implement and supervise the training of the basic course students in general military subjects. Students hold responsible positions within the cadet organization and are rated on their ability to function in the leadership role. *Offered each semester. 0 semester hours.*

Philosophy

Department of Philosophy
Professors: Pearl (Chairperson), Outwater, Sahakian, Zuckerstatter
Senior Lecturer: Reiche
Lecturers: Kelly, Silberman

Requirements for a major in philosophy are satisfied by successfully completing 30 semester hours of course work in philosophy.

All majors in philosophy are required to take the following core courses: Logic, Ethics, History of Philosophy, Introduction to Philosophy, Philosophy of Religion (or Oriental Philosophy). A detailed program suited to the needs of the individual student will be developed for each philosophy major. Each major will be guided into appropriate seminars, directed studies, and Philosophy 514 — Advanced Topics in Philosophy.

Twelve semester hours of complementary requirements must be chosen from a list prepared by the Department of Philosophy. Selections must be approved by an advisor from the Department of Philosophy.

Education 793 — Philosophy of Education, offered by the Department of Education, may be credited toward the major in philosophy.

Philosophy Courses

Philosophy 113 — Informal Logic. An informal introduction to correct reasoning, this course deals with the general nature of argument; aspects of language which have special bearing on logical thought; definition; types of disagreement and methods for resolving them; fallacies; and the elements of inductive reasoning. *No prerequisite. 1 term — 3 semester hours. Offered every year.*

Philosophy 114 — Formal Logic. An introduction to the formal (or semi-formal) study of the basic types of deductive argument (propositional and syllogistic logic). *No prerequisite. 1 term — 3 semester hours. Offered every year.*

Philosophy 115 — Introduction to Philosophy I. A systematic introduction to some of the major fields, issues, and thinkers of Western philosophy. It deals with the nature of philosophy, epistemology (theory of knowledge), and metaphysics. *No prerequisite. 1 term — 3 semester hours. Offered every year.*

Philosophy 116 — Introduction to Philosophy II. Focuses on moral philosophy and related areas such s social and political philosophy, aesthetics, and the philosophy of religion. *No prerequisite. 1 term — 3 semester hours. Offered every year.*

Philosophy 117 — History of Ancient Philosophy. The study of philosophical thought from the period of the ancient Greek philosophers through the Roman ethical thinkers, including such philosophers as Socrates, Plato, Aristotle, Epicurus, Zeno, Pyrrho. An excellent introductory course, Philosophy 117 is designed to equip the student with a well-grounded understanding and appreciation of philosophy. *No prerequisite. 1 term — 3 semester hours. Offered alternate years.*

Philosophy 118 — History of Modern Philosophy. A study of the major modern philosophical thinkers. The following philosophers are treated: Descartes, Spinoza, Leibniz, Locke, Berkeley, Hume, Kant, Hegel, Schopenhauer. *No prerequisite. 1 term — 3 semester hours. Offered alternate years.*

Philosophy 119 — Ethics. A systematic introduction to the major thinkers and positions on the main issues of ethics, i.e., What is morality? What are moral values? How do moral judgements differ from other types of statements? Are there objective, universal, absolute moral standards? If so, what are they, and what is their basis? *No prerequisite. 1 term — 3 semester hours. Offered every year.*

Philosophy 123 — Social Ethics. An examination of contemporary Western society, particularly American democracy and culture, from the stand-point of various philosophical ideas of justice and the good life. Current books which exhibit a philosophical approach toward important, contemporary, social issues will be discussed. *No prerequisite. 1 term — 3 semester hours. Offered alternate years.*

Philosophy 124 — Oriental Philosophy. The exposition and critical evaluation of Hinduism, Buddhism, Confucianism, Taoism, and Islam. Special attention is given to foundation principles as well as to the similarities and differences of each of these philosophies to basic ideas in Western philosophy. *No prerequisite. 1 term — 3 semester hours. Offered every year.*

Philosophy 125 — Business Ethics. An explanation of the ethical problems, dilemmas, and opportunities in the American and international business world. Classical, modern, and contemporary philosophical approaches will be utilized. *No prerequisite. 1 term — 3 semester hours. Offered alternate years.*

Philosophy 126 — Business and Social Responsibility. An exploration of the basis for the demand that business rejustify its contribution to the common good. Emphasis is on case studies regarding business' view of its role in the contemporary world. *No prerequisite. 1 term — 3 semester hours. Offered alternate years.*

Philosophy 127 — Law, Business, and Society. Focuses on business ethics from a legal and philosophic perspective. Topics include: poverty, equal rights, ecology, and consumerism. Various professional codes of ethics are examined. *No prerequisite. 1 term — 3 semester hours. Offered alternate years.*

Philosophy 128 — Philosophy of Democracy and Business An examination of two fundamental questions of modern political thought, i.e., the relation of the individual to the state, and the distribution of wealth in society. Conservative, liberal, and radical positions are examined. Readings are taken from Hobbes, Locke, Rousseau, Burke, Marx, and Mill. *No prerequisite. 1 term — 3 semester hours. Offered alternate years.*

Philosophy 213 — Philosophy of Personality. An evaluative study of the personality based on facts derived from psychological theorists such as Freud, Jung, Adler, Fromm, Rogers and others. A philosophical analysis of the nature and efficacy of personality theory and practice is attempted. *No prerequisite. 1 term — 3 semester hours. Offered every year.*

Philosophy 214 — Social and Political Philosophy. An examination of democracy in relation to social mobility, economics, and the political process in the American community. Readings from both historical and contemporary thinkers, e.g., Plato, Aristotle, Machiavelli, Rousseau, Jefferson, Thoreau, Marx, Mussolini, Hitler and others. *No prerequisite. 1 term — 3 semester hours. Offered alternate years.*

Philosophy 215 — Philosophy of Religion. Considers such subjects as religious values, conceptions of God, arguments for God, ways of knowing God, the problem of good and evil, human purpose, and the immortality of the soul. *No prerequisite. 1 term — 3 semester hours. Offered alternate years.*

Philosophy 216 — 19th Century Philosophy. Examines the major philosophers and schools of philosophy that flourished during the 19th century, including such schools as evolutionary naturalism, utilitarianism, pragmatism, realism, communism, personalism, and idealism; and such men as Mill, Nietzsche, Kierkegaard, James, Royce, Browne, Marx, Spencer, and Comte. *No prerequisite. 1 term — 3 semester hours. Usually given alternate years.*

Philosophy 217 — Philosophy of Life. To enable the student to develop and formulate his/her own philosophy of life by gaining an appreciation of major philosophies of life. Examples of philosophies of life include the stoical outlook on life, pleasure philosophies of life, pessimistic philosophies of life, and the happiness philosophies of life. *No prerequisite. 1 term — 3 semester hours. Usually offered alternate years.*

Philosophy 218 — The Golden Age of Greek Philosophy. Philosophy in Greece reaches its height in Athens. Philosophies of Socrates, Plato, Aristotle, and other Athenians who profoundly influenced philosophy throughout the ages are studied. *No prerequisite. 1 term — 3 semester hours. Offered alternate years.*

Philosophy 313 — Philosophy of Mind. Deals with a cluster of issues related to the concept of consciousness , i.e., the relationship of consciousness to the physical world; the consciousness of machines; personal identity; personal survival; free will vs. determinism, etc. Important historical as well as contemporary analytic views will be discussed. *Prerequisite: Philosophy 115, or 117, or 118. 1 term — 3 semester hours. Usually offered alternate years.*

Philosophy 314 — Contemporary Philosophy. Presents and discusses Pragmatism, Idealism, Naturalism, Logical Positivism, Phemonenology, Existentialism, Analytic Philosophy, Dialectical Materialism, Neo-Scholasticism, Personalism, and Neo-Realism together with the respective American, British, and Continental philosophers of the twentieth century. *No prerequisite. 1 term — 3 semester hours. Usually offered alternate years.*

Philosophy 315 — American Philosophy. An historical development of the major schools of American philosophy. Emphasis is placed on the more outstanding figures in American philosophy such as Emerson, Browne, Royce, James, Perry, Santayana, Peirce, Dewey, and Brightman. *No prerequisite. 1 term — 3 semester hours. Usually offered alternate years.*

Philosophy 413 — Seminar in Philosophical Psychology. An in-depth study of one psychologist, using original texts, commentaries and biographical material, in order to evaluate his/her work on a philosophical level. Choice of psychologists differs each year from a list including Freud, Jung, May, Fromm, Adler, Bettelheim, Bakan, Hillman, and others. *Prerequisite: 6 semester hours or consent of instructor. 1 term — 3 semester hours. Usually offered alternate years.*

Philosophy 414 — Philosophy of Rousseau. A detailed examination of the life and thoughts of Jean-Jaques Rousseau (b. 1712) and the significance of 19th Century Romanticism in relation to the Enlightenment. *No prerequisite. 1 term — 3 semester hours. Offered alternate years.*

Philosophy 514 — Advanced Topics in Philosophy. Students with sufficient background in philosophy and a special interest in areas of philosophy which cannot be covered in regularly offered courses will be guided by senior members of the Department. *Prerequisite: Some background in philosophy and the consent of the instructor. 1 term — 3 semester hours. Offered every year.*

Philosophy 515 — Directed Studies in Philosophy A member of the Department of Philosophy will hold conference hours with advanced students who have a special interest and will direct their reading in areas of philosophical research which may be of interest to them. *Instructor's permission required. 1 term — 3 semester hours. Offered every year.*

Physical Education

Department of Physical Education
Asst. Professor: Nelson (Director and Chairperson).

Athletics (Varsity) – S.U. sponsors intercollegiate teams in Baseball, Basketball, Cross-Country, Golf, Ice Hockey and Tennis for men, and Basketball, Cross-Country and Tennis for women. The University is a member of the National Collegiate Athletic Association, the Eastern Collegiate Athletic Conference, the New England Collegiate Athletic Conference and the Massachusetts Association of Intercollegiate Athletics for Women.

Athletics (Intramurals) – Intramural sports are offered for both men and women at Suffolk University. Included in the program are Basketball, Flag Football, Softball and Tennis. A clinic is held for tennis. Aerobics and swimming programs are also offered.

Club sports are: Soccer, Track & Field, Weight-lifting and Wrestling.

Health club memberships are available through the Athletic Office.

Physical Education Courses

Physical Education 133 — Theory and Practice of Athletics. Theory and practice of Football, Hockey, Soccer and Intramurals; rules and officiating. Olympic history, ancient and modern. *1 term — 3 semester hours. Normally offered every year.*

Physical Education 134 — Theory and Practice of Athletics. Theory and practice of Baseball, Basketball, Marathon and Minor Sports; rules and officiating. *1 term — 3 semester hours. Normally offered every year.*

Physical Education L157 S.C.U.B.A. — Underwater Collecting Techniques. The theory and application of underwater life support systems used in conjunction with collecting biological data in marine and freshwater environments. Lectures and field experience. *Prerequisite: Physician's approval. 1 term — 1 semester hour. Offered evenings.*

Physics

Department of Physics

Professors: Johnson (Chairperson), Marshall
Associate Professor: Feldman
Assistant Professors: Garneau, Haque
Lecturers: Goodman, Niknejad, Shahram, Walsh, Zatet

The Physics Department offers several programs leading to a B.S. or B.A. degree:

Physics
Physics/Computer Science
Physics/Education
Computer Engineering Technology
Electronic Engineering Technology
Airway Electronic Systems

Also there are majors in all fields of engineering available through the "3/2" combined engineering programs between Suffolk University and Boston University, Notre Dame University, and Case Institute of Technology. A choice of particular program does not have to be made until the sophomore year, but each student should discuss his/her plans with the Chairman of the Physics Department as soon as possible.

Capable students are encouraged to participate in one of several undergraduate research projects during their Junior and Senior Years. Students may choose solar energy research involving microprocessor controlled sun-tracking solar panels located at the Boston campus and the university's research station near Cobscook Bay in Maine. There are also research projects involving CAMAC data acquisition systems, gamma radiation studies using the university's large Gammacell 220 Cobalt 60 source, and image and speech processing for robots.

Majors are encouraged to participate in the students' club, the Society of Physics Students, which has been successful in obtaining research grants to support student research. Physics Majors take part in field trips to the university's research station in Maine and also attend the spring meeting of the New England American Physical Society where students may present papers based on their research work.

Particular courses must be selected in order to fulfill (1) general requirements for all undergraduates in the College of Liberal Arts and Sciences, (2) core requirements of the major, (3) complementary requirements selected by the Physics department, and (4) free electives.

Many courses required for a major in Physics are not offered every year in the Evening Division. As a result, an Evening Division student who chooses to major in Physics must plan his or her program carefully with the Chairman of the Department in order to avoid unnecessary delays in completion of course requirements.

A transfer student must see the Chairperson of the Department to determine which courses may be accepted for credit toward requirements of the Physics major. A minimum of 16 hours of the core requirements must be taken at Suffolk University.

Requirements for a Major in Physics

Core Requirements:
Physics:
- Physics 151, 152, L151, L152 (University Physics and laboratory)
- Physics 303 or Eng. Tech. 206 (Digital Electronics or Electronic Devices)
- Physics 361, 362 (Classical Mechanics)
- Physics 471, 472 (Electricity and Magnetism)
- Physics 451, 452 (Modern Physics)
- Physics 455 (Advanced Laboratory)

Complementary Requirements for a Major in Physics:

- *Chemistry 111, 112, L111, L112 (General Chemistry I, II and lab)
- *Computer Science 131, 132 (Computer Programming I, II)
- *Computer Science 222 or 225 (Programming in the C language or Fortran)

Computer Science electives (6 hours) or Physics 351, 352 (Introduction to Microprocessors and Microprocessor Interfacing)
*Mathematics 161, 162, 261, 262 (Calculus I, II, III, IV)
*Mathematics 373 (Ordinary Differential Equations)

Minor in Physics

Students may elect a minor program in Physics by completing a total of 18 hours in the Department. The suggested course sequence is as follows:

Physics 151, 152, L151, L152 (University Physics and laboratories) (8 hours)
Physics 303 or Engineering Tech 205 (Digital Electronics or Applied Circuit Theory) (4 hours)
Physics 361 (Classical Mechanics) (3 hours)
Physics 451 (Modern Physics) (3 hours)

Most of these courses have substantial mathematics prerequisites (Calculus I, II, III, IV and Differential Equations), so that it would not be possible for a non-science major to minor in Physics.

Bachelor of Science in Physics*

(Suggested Course Sequence)

Freshman	**Sem. Hrs.**
University Physics and Lab	8
Computer Programming I, II	6
Freshman English I, II	6
Calculus I, II	6
Freshman Integrated Studies	6
	32

Sophomore	**Sem. Hrs.**
Electronics Elective	4
Free Elective	3
Social Science Option I, II	6
Calculus III, IV	6
Computer Science Electives	4
General Chemistry I, II and Lab	8
	31

Junior	**Sem. Hrs.**
Classical Mechanics I, II	6
English Option	6
Ordinary Differential Equations	3
Logic, Speech	6
Computer Science Elective	3
Humanities Option	6
	30

Senior	**Sem. Hrs.**
Electricity and Magnetism I, II	6
Social Science Option III	3
Modern Physics I, II	6
Humanities Option	3
Advanced Lab	2
Free Electives	12
	32

**Students intending to pursue graduate level work in Physics are strongly advised to take Quantum Mechanics I, II and consult the Department Chairperson when considering appropriate electives.*

Computer Science and Physics Program

A student with strong interests in both Computer Science and Physics may follow the suggested course sequence below. The resulting major is called Physics/Computer Science and is designed to provide sufficient competence in the areas of Physics and Computer Science to allow a student to enter either field following graduation.

The Computer Science electives should be chosen following consultation and approval by the student's Faculty Advisor.

Core Requirements:

Physics:

The core requirements are the same as for the major in Physics plus the additional requirements: Physics 351, 352 (Introduction to Microprocessors and Microprocessor Interfacing)

Complementary Requirements for a Major in Physics/Computer Science

In addition to the complementary requirements marked with * under Physics there are the following:

Computer Science 265 (Data Structure)
Computer Science electives (6 hours)

Bachelor of Science in Physics/Computer Science

(Suggested Course Sequence)

Freshman	Sem. Hrs.
University Physics and Lab	8
Computer Programming I, II	6
Freshman English I, II	6
Calculus I, II	6
Freshman Integrated Studies	6
	32

Sophomore	Sem. Hrs.
Electronics Elective	4
Introduction to Microprocessors	4
Microprocessor Interfacing	4
Social Science Option	6
Calculus III, IV	6
General Chemistry I, II and Lab	8
	32

Junior	Sem. Hrs.
Classical Mechanics I, II	6
English Option	6
Ordinary Differential Equations	3
Logic, Speech	6
Data Structures	3
Humanities Option	6
	30

Senior	Sem. Hrs.
Electricity and Magnetism I, II	6
Social Science Option	3
Modern Physics I, II	6
Humanities Option	3
Advanced Lab	2
Computer Science Elective	6
Computer Science Language Elective	1
Free Electives	3
	30

Transfer Students The requirement of Freshman Integrated Studies in all programs is replaced by an additional Social Science Option (3 hours) and an additional Humanities Option (3 hours).

B.A. in Physics or Physics/ Computer Science The B.A. degree in Physics may be obtained by replacing Humanities Option I, II with a two-semester Foreign Language sequence and by replacing the Social Science Option III with a History Option (3 hours).

Grade Point Requirements

To graduate from Suffolk University with a Bachelor's degree in Physics or Physics/ Computer Science a student must have a minimum cumulative grade point average of 2.25 in all Physics and related science core requirements.

Engineering Technology Programs

A student may major in **Computer Engineering Technology** or **Electronic Engineering Technology**. These programs are intended for students whose primary goal upon graduation is entry into the high technology job market rather than graduate study. The core course requirements, suggested course sequences, and course descriptions are shown in the section of this bulletin entitled **Engineering Technology**.

Five Year Programs in Engineering

A student may select from the large number of engineering majors offered at Boston University, Notre Dame University, and Case Institute of Technology by taking the first three years of course work at Suffolk University as a Physics major and the last two years at one of these cooperating schools. This combination five-year program between the College of Liberal Arts and Sciences at Suffolk University and the College of Engineering at the participating university enables the student to acquire degrees from both colleges. Upon graduation the student receives a Bachelor of Science from Suffolk University and a Bachelor of Science from the cooperating institution in either Computer Engineering or Electronic Engineering.

The course requirements in the first three years at Suffolk University are the same as shown for the degree in Physics except that an additional elective must be taken in the Sophomore Year. The student must plan his or her program with the approval of the Department Chairperson so that degree requirements at both universities are satisfied at the end of the five year period. A 3.0 grade point average must be maintained in all Physics and related science core requirements at Suffolk University to participate in this program.

Physics/Education Program

A student with interests in both Education and Physics can major in **Physics/Education**. This program is designed to provide the core courses required of a Physics major and also satisfy the Massachusetts teaching certification requirements.

The requirements for a degree program in Physics/Education leading to certification as a teacher of Physics include 29 semester hours of physics and additional courses in computer science, mathematics and education, as follows:

Physics: (29 semester hours)
- Physics 151-152, L151-L152 (University Physics and Laboratory)
- Physics 303 or Engineering Technology 206 (Digital Electronics or Electronic Devices)

Physics 361-362 (Classical Mechanics)
Physics 451-452 (Modern Physics)
Physics 455 (Advanced Laboratory) — Optional
Physics 471-472 (Electricity and Magnetism)

Complementary Requirements

Mathematics: (15 semester hours)
- Mathematics 161-162 (Calculus I and II)
- Mathematics 261-262 (Calculus III and IV)
- Mathematics 373 (Ordinary Differential Equations)

Chemistry: (8 semester hours)
- Chemistry 111-112, L111-L112 (General Chemistry I-II and Laboratory)

Computer Science: (10 semester hours)
- Computer Science 131-132 (Computer Programming I and II)

One of the following two:
- Computer Science 255 (Computer Architecture)
- Physics 351 (Microprocessors)

One of the following two:
- Computer Science 203 (Fortran Programming)
- Computer Science 222 (C Programming)

Education: (30 semester hours)
- Education 203* (Foundations of Education)
- Education 204 (Educational Psychology)
- Education 443*-444 (Curriculum and Methods of Science and Mathematics Education)
- English 101 (Freshman English Composition)
- Communications and Speech 103 (Rhetoric and Communication)
- Education 446* (Reading Skills for Secondary Science and Mathematics Teaching)
- Education 500 (Student Teaching)

Courses preceded by asterisks are labelled pre-practicum, contain substantial amounts of field experiences, and must be taken prior to Education 500 (Student Teaching).

Students interested in this program are urged to see the assigned advisor in the specific academic area as well as the Education coordinator listed below.

Physics: R. W. Garneau
Education: S. Shatkin

Suggested Course Sequence for Physics/Education

Freshman	Sem. Hrs.
Freshman English	6
Freshman Integrated Studies	6
Mathematics 161-162	6
Physics 151-152, L151-L152	8
Computer Science 131-132	6
	32

Sophomore	Sem. Hrs.
Electronics Elective	3
Mathematics 261-262	6
Computer Science Elective	3
Chemistry 111, 112, 411, 412	8
Speech	3
Logic	3
English Option	6
	32

Junior	Sem. Hrs.
Physics 361-362	6
Mathematics 373	3
Education 443-444 (Curriculum/Methods)	6
Social Science Option	3
Education 446	3
Education 203 (Social Science Option)	3
Programming Language Elective	1
Humanities Option or Language (B.A.)	6
	31

Senior	Sem. Hrs.
Physics 471-472	6
Physics 451-452	6
Humanities Option	3
Education 204 (Social Science Option)	3
Education Practicum	9
	27

Grand Total	122

Physics Courses

Physics 103 — Physics Shop. Laboratory experience in proper selection, use and care of tools for working with wooden and metal materials. Experience with circular saw, drill press, lathe, pop riveters, etc. Projects required illustrating fusing, cabling, and indicator preparation for electronic cabinets. *1 term — 1 semester hour. Normally offered in alternate years.*

Physics 111-112 — College Physics. An introduction to the fundamental principles of physics. Basic concepts of mechanics, heat, sound, electricity, magnetism, and light. *2 terms — 6 semester hours. Normally offered yearly.*

Physics L111-L112 — College Physics Laboratory. Fundamental laboratory experimental measurements illustrating the basic concepts of mechanics, heat, sound, electricity, magnetism and light and use of the computer. *2 terms — 2 semester hours. Normally offered yearly.*

Physics 151-152 — University Physics. The topics of Physics 111-112 will be treated, with calculus. This course is a prerequisite for all advanced physics courses. Physics 111-112 and Physics 151-152 cannot both be used to satisfy degree requirements. *Prerequisite: Math. 161-162 which may be taken concurrently. 2 terms — 6 semester hours. Normally offered yearly.*

Physics L151-L152 — University Physics Laboratory. Fundamental laboratory experimental measurements illustrating the basic concepts of mechanics, heat, sound, electricity, magnetism, and light and use of the computer and calculus. *2 terms — 2 semester hours. Normally offered yearly.*

Physics 201 — Special Topics in Physics. Subjects of current interest are treated at a mathematical level to be specified by the instructor. Enrollment with consent of instructor. *1 term — 2 semester hours. Normally offered alternate years.*

Physics 211-212 — Wave Motion, Sound and Optics. Modes of oscillations in systems, traveling waves in homogeneous media, standing waves, superposition of harmonic waves. Emission and absorption of waves, polarization, interference and diffraction phenomena. *Prerequisite: Math 262. 2 terms — 6 semester hours. Normally offered alternate years.*

Physics 221 — Heat and Thermodynamics. Temperature, thermodynamic systems, work and the laws of thermodynamics, reversibility, irreversibility, entropy, thermodynamic state functions, and applications to special systems. *Prerequisite: Math. 262. 1 term — 3 semester hours. Normally offered alternate years.*

Physics 222 — Kinetic Theory of Gases. Elements of gas kinetic theory and the distribution law for molecular velocities. Distributive averages, mean free path, collisions and scattering. Transport properties. Equations of state, fluctuations. *Prerequisite: Physics 221. 1 term — 3 semester hours. Normally offered alternate years.*

Physics 303 — Digital Electronics. An introduction to the design of digital logic circuits. Analog to digital conversion, Boolean algebra, Karnaugh maps, combinational circuits, adders, flip-flops, decoders, counters, timers and registers. Laboratory experience included. *Prerequisite: Physics 152. 1 term — 4 semester hours. Normally offered in alternate years.*

Physics 321-322 — Solid State Physics. Properties of solids. X-ray diffraction and crystal structure. Magnetic properties and binding energy in solids, elastic waves in discrete lattices, temperature dependence of the physical properties of solids, and the free electron theory of metals. *Prerequisites: Physics 361, 362, 211, 212. 1 term — 3 semester hours.*

Physics 331-332 — Mathematical Methods of Physics. Mathematical methods in the physical sciences. Infinite series, complex numbers, determinants, matrices, partial differentiation and multiple integrals, vector analysis, fourier series, and differential equations. Calculus of variations, functions of a complex variable, integral transforms, and probability. *Prerequisite: Math. 162. 2 terms — 6 semester hours.*

Physics 351 — Introduction to Microprocessors. Hardware oriented course with experience in digital electronics included. Number systems and codes, logic gates, address decoding, bus structures, construction of single board microcomputer. Machine language programming. Stack operations, interrupt servicing, memory mapped I/O. *Prerequisites: Physics 152. 1 term — 4 semester hours. Offered yearly.*

Physics 352 — Microprocessor Interfacing. Procedures for interfacing different types of microprocessors to peripherals. Experience provided on NSM8073, M6800, M68000, INTEL 8088, 8086, 80186. Fan-out, peripheral interface adapters, asynchronous communication interface adapters, serial and parallel I/O, ADC and DAC control. Interfacing to standard and non-standard devices via polling and interrupt handshakes. *Prerequisite: Physics 351. 1 term — 4 semester hours. Offered yearly.*

Physics 361-362 — Classical Mechanics. An introduction to the elements of classical mechanics. Newtonian mechanics, motion and force, frames of reference, momentum and energy, conservation relations, linear oscillations, central forces, orbits, angular momentum, rotating bodies, Hamilton's principles and Lagrange's equations. *Prerequisite: Math. 373 which may be taken concurrently. 2 terms — 6 semester hours. Normally offered alternate years.*

Physics 451-452 — Modern Physics I, II. Atoms and elementary particles, atomic, molecular and nuclear systems. Quantum states and probability amplitude, wave mechanics, and thermal properties of matter. Atomic spectra and structure, and molecular systems. Nuclear reactions, alpha and beta decay, and high energy physics. *Prerequisite: Physics 361, 362. 2 terms — 6 semester hours. Given alternate years.*

Physics 455 — Advanced Laboratory. Classical and modern experiments in physics; Millikan Oil Drop, Frank Hertz experiment, Zeeman effect, Mossbauer experiment, nuclear spectroscopy, nuclear magnetic resonance, electron spin resonance, laser diffraction and CAMAC data acquisition experiments. *Prerequisites: Physics 111, 112, 451, 452 or equivalent. 1 term — 2 semester hours.*

Physics 461-462 — Quantum Mechanics I, II. Non-relativistic study of particle systems, wave mechanical treatment, development of the concepts of observables, state vectors, operators and matrix representations. Hilbert space, angular momenta, coupling, symmetries, scattering, and perturbation theory. Harmonic oscillator and Hydrogen atom. *Prerequisite: Physics 361, 362. 2 terms — 6 semester hours. Normally offered alternate years.*

Physics 471-472 — Electricity and Magnetism I, II. Electrostatic field energy, methods for solution of boundary value problems. The magnetostatic field and magnetic circuits. Electromagnetic field energy; plane waves, wave guides and cavity resonators. Interaction of charged particles with electromagnetic fields. *Prerequisite: Phys. 361, 362. 2 terms — 6 semester hours. Given alternate years.*

Physics 513 — Advanced Studies in Physics. Directed reading, lectures, seminar and research in selected areas of special interest.

Psychological Services

Professor: Garni (Chairperson)
Associate Professors: MacVicar, Korn
Assistant Professor: Mattei.

Psychological Services Courses

Psychological Services 503 — Interpersonal Relations. An opportunity to develop better communication skills and increase self-awareness through readings and discussions of the ways members experience themselves and others in social interaction within and outside of the group. Instructor's consent. *Course taught on Pass-Fail basis. Normally offered every term. 3 semester hours.*

Psychological Services 504 — Helping Skills: Theory and Practice. An opportunity for upper-level undergraduates interested in human services to learn basic models and methods of the helping process. Teaching format includes lecture, discussion, role-play and video-feedback. *Instructor's consent. Normally offered every term. 3 semester hours.*

Psychological Services 505 — Career Choices & Life Goals. This course provides an opportunity for individual assessment of work interests, skills, and values; for career exploration; and for the integration of this self-knowledge and career information into a personal career and life plan. *Normally offered every term. 3 semester hours.*

Psychological Services 513 — Independent Study. Academically qualified students, in collaboration with a department member, may design a library and field research project in psychological services. *Submission of a written project proposal is required prior to enrolling. Normally offered yearly. 3 semester hours.*

Psychology

Department of Psychology

Professors: Lloyd (Chairperson), Katz, Raben, Webb, Wetherbee
Associate Professor: Hannah.

A major in psychology may be taken under either the B.A. or B.S. degree.

The 11 psychology courses required for the major are of three types: (1) core requirements (four courses); (2) concentration requirements (four courses); and (3) psychology electives (three courses). The total semester hours required for the psychology major range from 35 to 37, depending upon the number of 3- or 4-credit courses a student takes as concentration and major elective courses.

Four subject area concentrations are offered to provide students with the opportunity to follow their own particular interests within the field of psychology: Mental Health, Industrial/Organizational, Human Development, and Comprehensive. Students must complete four of five prescribed courses in whichever concentration they elect (see specific requirements below).

In addition, the Department offers a combined program in Psychology/Computer Science (see requirements below). This program is jointly sponsored by the Psychology Department and the Department of Mathematics and Computer Science. It should be of particular interest to students preparing to work in business or industry and those interested in research applications and/or graduate study in psychology.

The psychology major is available for students enrolled in the evening program (see specific requirements below).

A number of minor programs are relevant to the study of psychology. Students majoring in psychology should select a minor (six prescribed courses) according to their interests in consultation with their faculty advisor.

The Department sponsors a Psychology Club and a chapter of Psi Chi, the national honor society in psychology, as well as several awards to outstanding majors. More specific information is available in the Department office.

General Psychology is a prerequisite for most Psychology courses (see individual course descriptions for this information). Laboratories and Workshops designated "X" carry no lab fee; those designated "L" do.

Minor in Psychology

A minor in psychology is offered. A list of courses comprising the minor is available in the Psychology Department. For specific information, students should consult the Department Chairperson.

The requirements for the Psychology major within the four concentration areas, for the interdisciplinary Psychology-Computer Science program, and for the evening program are described below.

Curricula in Psychology
Mental Health Concentration

The Mental Health Concentration is designed for students who are considering a human-services oriented career or graduate study in counseling, school psychology, or psychiatric social work. Students selecting the Mental Health Concentration must take the courses listed below:

Core Requirements:

	Sem. Hrs.
Psychology 113, X113 Psychology and Contemporary Living (and Workshop)	4
Psychology 114 General Psychology	3
Psychology 213, L213 Experimental Psychology/ General (and Laboratory)	4
Psychology 215, X215 Statistics and Research Design (and Laboratory)	4

Concentration Courses:
Students must take four of the five courses listed below:

	Sem. Hrs.
Psychology 225 Abnormal Psychology	3
Psychology 226 Theories of Personality	3
Psychology 353 Psychological Testing	3
Psychology 356 Behavior Modification	3
Psychology 573 Practicum in Psychology	4

Major Electives:
Students must take three major elective courses. (*Note:* majors may count *no more than one* of the psychology courses whose second digit is "0" toward the major.)

	Sem. Hrs.
Psychology elective course	3
Psychology elective course	3
Psychology elective course	3

36-37

Industrial/Organizational Concentration The Industrial/Organizational Concentration is designed for students who are interested in personnel, management, or consumer behavior applications. Students selecting the Industrial/Organizational Concentration must take the courses listed below:

Core Requirements:

	Sem. Hrs.
Psychology 113, X113 Psychology and Contemporary Living (and Workshop)	4
Psychology 114 General Psychology	3
Psychology 213, L213 Experimental Psychology/ General (and Laboratory)	4
Psychology 215, X215 Statistics and Research Design (and Laboratory)	4

Concentration Courses:
Students must take four of the five courses listed below:

	Sem. Hrs.
Psychology 224 Social Psychology	3
Psychology 243 Industrial Psychology	3
Psychology 244 Organizational Psychology	3
Psychology 343 Personnel Psychology	3
Psychology 573 Practicum in Psychology	4

Major Electives:
Students must take three major elective courses. (*Note:* majors may count *no more than one* of the psychology courses whose second digit is "0" toward the major.)

	Sem. Hrs.
Psychology elective course	3
Psychology elective course	3
Psychology elective course	3

36-37

Human Development Concentration The Human Development Concentration is designed for students who are interested in working with adequately functioning individuals in a particular age group — infants, children, adolescents, adults, or the elderly. Students selecting the Human Development Concentration must take the courses listed below:

Core Requirements:

	Sem. Hrs.
Psychology 113, X113 Psychology and Contemporary Living (and Workshop)	4
Psychology 114 General Psychology	3
Psychology 213, L213 Experimental Psychology/ General (and Laboratory)	4
Psychology 215, X215 Statistics and Research Design (and Laboratory)	4

Concentration Courses:
Students must take four of the five courses listed below:

	Sem. Hrs.
Psychology 233 Child Psychology	3
Psychology 234 Psychology of Adolescence	3
Psychology 236 Psychology of the Modern Family	3
Psychology 333 Adult Psychology and Aging	3
Psychology 573 Practicum in Psychology	4

Major Electives:
Students must take three major elective courses. (*Note:* majors may count *no more than one* of the psychology courses whose second digit is "0" toward the major.)

	Sem. Hrs.
Psychology elective course	3
Psychology elective course	3
Psychology elective course	3

36-37

Comprehensive Concentration

The Comprehensive Concentration is designed for students who want a broad background in psychology and for those who are interested in graduate school in *any* area of psychology (clinical, industrial, developmental, social, experimental, etc.). Students selecting the comprehensive concentration must take the courses listed below:

Core Requirements:

	Sem. Hrs.
Psychology 113, X113 Psychology and Contemporary Living (and Workshop)	4
Psychology 114 General Psychology	3
Psychology 213, L213 Experimental Psychology/ General (and Laboratory)	4
Psychology 215, X215 Statistics and Research Design (and Laboratory)	4

Concentration Requirements:
Students must take four of the five courses listed below:

	Sem. Hrs.
Psychology 224 Social Psychology	3
Psychology 226 Theories of Personality	3
Psychology 323 Brain and Behavior	3
Psychology 325 Experimental Psychology/ Learning (and Laboratory)	4
Psychology 423 History of Psychology	3

Major Elective:
Students must take three major elective courses. (*Note:* majors may count *no more than one* of the psychology courses whose second digit is "0" toward the major.)

	Sem. Hrs.
Psychology elective course	3
Psychology elective course	3
Psychology elective course	3

36-37

Note: Students who plan to apply for graduate study in psychology (not social work or counselor education) are advised to inform their advisors of this fact as early as possible. These students should arrange their schedules so as to have completed Psychology 213 and L213, Psychology 215 and X215, and Psychology 325 and L325 by the end of the first semester of their senior year in order for their applications to be considered by prospective graduate schools. Students who plan to apply for graduate study in psychology must also usually take the Graduate Record Examination (Verbal, Quantitative, and Advanced Test in Psychology sections) by December of their senior year.

Psychology-Computer Science Program In addition to the liberal arts requirements for the B.A. or B.S. degree and the 11 courses required in Psychology, 18 semester hours in Computer Science courses are required (12 hours taken in lieu of Related Electives and 6 hours taken as Free Electives). This program is especially relevant to students in the Industrial/Organizational and Comprehensive concentrations, but it is open to majors in any of the four concentrations. To ensure that students select computer science courses (where such options are specified) which are most relevant to the psychology major and their goals upon graduation, students must plan these courses in consultation with the Computer Science Advisor in Psychology (Dr. Webb) and with their regular major advisor.

Required Courses in Computer Science:

	Sem. Hrs.
1. CmpSc. 131 Computer Programming I	3
2. CmpSc. 132 Computer Programming II	3
3. CmpSc. 253 Introduction to Computer Systems	3
Phys. 351 Microprocessors I	3
4. CmpSc. 263 Introduction to File Processing or CmpSc. 333 Organization of Programming Languages	3
5. Specified Elective Course*	3
6. Specified Elective Course*	3
	18

**Additional courses totalling six hours must be chosen from a list of computer courses approved by the Chair of the Department of Mathematics and Computer Science (specific information about this program may be obtained in the Psychology Department office).*

Psychology Major for Evening Students The Psychology major for Evening Students is designed for students who want a relatively broad background in psychology. Several courses listed as Mental Health, Industrial/Organizational, and Human Development Concentration requirements are rotated over a four-year span so that students who have an interest in one of these areas can take such courses as major electives. Evening Students must take the courses listed below:

Core Requirements:

	Sem. Hrs.
Psychology 113, Psychology and Contemporary Living	3
Psychology 114 General Psychology	3
Psychology 213, L213 Experimental Psychology/ General (and Laboratory)	4
Psychology 215, X215 Statistics and Research Design (and Laboratory)	4

Evening Concentration Requirements:
Students must take four of the five courses listed below:

	Sem. Hrs.
Psychology 223 Psychology of Human Development	3
Psychology 224 Social Psychology	3
Psychology 225 Abnormal Psychology	3
Psychology 226 Theories of Personality	3
Psychology 578 Directed Study in Psychology	3

Major Electives:
Students must take three major elective courses. (*Note:* majors may count *no more than one* of the psychology courses whose second digit is "0" toward the major.)

	Sem. Hrs.
Psychology elective course	3
Psychology elective course	3
Psychology elective course	3
	34

Psychology Courses

Psychology 103 — Psychology of Sports. Applies psychological principles to modern sports. Looks at sports from perspectives covering several interpretations — i.e., competition, recreation, the media, entertainment, and sports as big business. Guest speakers and attendance at sporting events may be included. *1 term — 3 semester hours. Normally offered alternate years.*

Psychology 104 — Psychology and Modern Parenting. Explores the psychological issues related to the many forms and aspects of parenting in modern society. Also considers various approaches to child-rearing, integrating them with general psychological concepts. *1 term — 3 semester hours. Normally offered alternate years.*

Psychology 105 — Psychology of Love and Intimacy. Treats problems of defining and understanding love and intimacy by surveying empirical data on these topics. Reviews historical approaches to the psychology of love and develops a thematic approach to the subject. *1 term — 3 semester hours. Normally offered alternate years.*

Psychology 106 — Psychology and the Media. Explores the positive and negative effects of the media on cognitive, emotional, and social functioning. Primary focus is on electronic media. *1 term — 3 semester hours. Normally offered alternate years.*

Psychology 108 — Psychology of Alcoholism. An analysis of the dynamics of alcoholism from an individual, family, and social perspective. Includes an historical approach, comparative theories, disease concept, personality factors, treatment, and rehabilitation. *1 term — 3 semester hours. Normally offered alternate years.*

Psychology 113 — Psychology and Contemporary Living. Explores psychological issues which are important to students in their everyday lives. Topics include self-concept, values, interpersonal relationships, love, sexuality, and work. Relevant psychological theory and research will be presented. *Required for Psychology majors. 1 term — 3 semester hours. Normally offered every semester.*

Psychology X113 — Workshop in Contemporary Living. Exercises are offered which provide students with opportunities for greater insight into their own personality, behavior, and interpersonal relationships. May be taken concurrently or after 113. *Required for Psychology majors, optional for others. 1 term — 1 semester hour. Normally offered every semester.*

Psychology 114 — General Psychology. Introductory-level survey of concepts and representative findings in the major sub-fields of psychology: history and systems, physiology, perception, thinking, emotion, learning, motivation, development, personality, psychopathology, psychotherapy, and social behavior. *Required for Psychology majors. 1 term — 3 semester hours. Normally offered every semester.*

Psychology 213 — Experimental Psychology/General. A presentation of the achievements, theories, and methods of the experimental approach to psychology. Focuses on representative subject areas of perception, sense systems, learning and cognition. Concurrent enrollment in L213 required. *Required for Psychology majors. Prerequisite: Psychology 114. 1 term — 3 semester hours. Normally offered yearly.*

Psychology L213 — Laboratory: Experimental Psychology/General. Experiments and demonstrations to illustrate the methods and phenomena introduced in the lecture portion of the course. Concurrent enrollment in Psychology 213 required. *Required for Psychology majors. 1 term — 1 semester hour. Normally offered yearly.*

Psychology 215 — Statistics and Research Design. An introduction to the use of statistics as tools for description and decision-making, including methods of research design and hypothesis testing. Prepares students for the analysis, interpretation, and evaluation of psychological research. Concurrent enrollment in L215 is required. *Required for Psychology majors. Prerequisite: Psychology 114. 1 term — 3 semester hours. Normally offered yearly.*

Psychology X215 — Laboratory: Statistics and Research Design. Problems assigned in the laboratory are related to the particular statistics being considered in class. Problems in research design are done as take-home assignments. Concurrent enrollment in Psychology 215 required. *Required for Psychology majors. 1 term — 1 semester hour. Normally offered yearly.*

Psychology 223 — Psychology of Human Development. Emphasizes individual growth and the influence of environment on infancy, childhood, adolescence, young adulthood, middle age, and old age. Aspects of growth — physical, intellectual, emotional, social — are treated as related to the development of personality. *Prerequisite: Psychology 114. 1 term — 3 semester hours. Normally offered alternate years.*

Psychology 224 — Social Psychology. Studies the social determinants of human behavior and surveys current findings in such major content areas as attitudes, prejudice, conformity, obedience, leadership, interpersonal attraction, altruism, and aggression. *Prerequisite: Psychology 114. 1 term — 3 semester hours. Normally offered yearly.*

Psychology 225 — Abnormal Psychology. Studies the dynamics of abnormal behavior, as exemplified in the neuroses and organic functional psychoses. Case material is presented to illustrate the various types of behavior and familiarize students with clinical procedures. *Prerequisite: Psychology 114. 1 term — 3 semester hours. Normally offered yearly.*

Psychology 226 — Theories of Personality. Surveys the major theoretical approaches to personality as seen in the systems of Freud, Jung, and Adler, as well as representative theorists of the cultural, ego-oriented, behavioristic, and humanistic viewpoints. *Prerequisite: Psychology 114. 1 term — 3 semester hours. Normally offered yearly.*

Psychology 233 — Child Psychology. Examines physical, cognitive, emotional, and social development in the child. Surveys major theoretical approaches including Freudian, Eriksonian, behavioristic, and Piagetian. Major focus is on normal development. *Prerequisite: Psychology 114. 1 term — 3 semester hours. Normally offered yearly.*

Psychology 234 — Psychology of Adolescence. Examines early and late adolescent development. Major areas of attention include physical, cognitive, emotional and social development, with emphasis on normal personality development and ego identity. *Prerequisite: Psychology 114. 1 term — 3 semester hours. Normally offered yearly.*

Psychology 235 — Psychology of Being Male and Female. Explores similarities and differences in female and male personality and behavior. Psycho-biological and socio-cultural determinants are considered. Topics include sex-role stereotypes and development; sex-role influences on self-concept, mental health, sexuality. *1 term — 3 semester hours. Normally offered alternate years.*

Psychology 236 — Psychology of the Modern Family. Focuses on the modern family as a psychological unit, exploring its strengths and weaknesses; roles and relationships; its effective and ineffective functioning. Special emphasis will be given to parenting and family therapies. *1 term — 3 semester hours. Normally offered yearly.*

Psychology 243 — Industrial Psychology. Explores ways in which the work-effectiveness of individuals may be enhanced. Emphasis is placed on the four spheres of Industrial Psychology — organizational behavior, personnel functions, human engineering in the work place, and consumer psychology. *Prerequisite: Psychology 114. 1 term — 3 semester hours. Normally offered yearly.*

Psychology 244 — Organizational Psychology. Applies psychological theory and research to understanding and managing individual and group behavior in work settings. Focus is on organizational structure and its influence on human behavior as well as managerial styles and decision-making. *Prerequisite: Psychology 114. 1 term — 3 semester hours. Normally offered yearly.*

Psychology 323 — Brain and Behavior. Explores the organic basis for human and animal behavior. Specifically treats nervous system and brain function, emotion, drives, and stress. *Prerequisite: Psychology 114. 1 term — 3 semester hours. Normally offered yearly.*

Psychology 325 — Experimental Psychology/Learning. Studies the use of experimental methods in the investigation of learning, cognitive, and memory processes. Theoretical approaches are introduced and related to relevant experimental research. Students plan and carry out individual projects. Concurrent enrollment in L235 required. *Prerequisite: Psychology 114. Recommended: Psychology 213. 1 term — 3 semester hours. Normally offered yearly.*

Psychology L325 — Laboratory: Experimental Psychology/Learning. Laboratory exercises demonstrate principles discussed in the lecture portion of the course, including verbal and cognitive tasks with humans and operant conditioning with animals. Concurrent enrollment in Psychology 325 required. *1 term — 1 semester hour. Normally offered yearly.*

Psychology 333 — Adult Psychology and Aging. Considers developmental tasks in the psycho-social sphere which confront individuals and groups in the span of life from young adulthood to death. Special attention is paid to the problems of the aged. *Prerequisite: Psychology 114. 1 term — 3 semester hours. Normally offered yearly.*

Psychology 343 — Personnel Psychology. Focuses on recruiting, screening, placement, performance assessment, training, and career development of personnel in business and industry in order to match abilities and tasks. *Prerequisite: Psychology 114. 1 term — 3 semester hours. Normally offered yearly.*

Psychology 353 — Psychological Testing. Reviews intelligence and personality tests with emphasis on test administration, scoring, and interpretation. Tests surveyed include WAIS, WISC, S.C.I.I., STANFORD-BINET, M.M.P.I., Sentence Completion, T.A.T., Rorschach, and case-study materials. *Prerequisite: Psychology 114. 1 term — 3 semester hours. Normally offered yearly.*

Psychology 354 — Humanistic Psychology. Explores psychological "health," "growth," self-actualization, and existential approaches to the study of personality. Theories of Rogers, Maslow, and Frankl are given special emphasis. *Prerequisite: Psychology 114. 1 term — 3 semester hours. Normally offered alternate years.*

Psychology 355 — Comparative Psychotherapies. Explores counseling and psychotherapeutic processes including psychodynamic, learning, cognitive, phenomenological, existential, and group approaches. Emphasis is also placed on related theories of psychopathology. *Prerequisite: Psychology 114. 1 term — 3 semester hours. Normally offered yearly.*

Psychology 356 — Behavior Modification. Introduction to the basic concepts of behavior modification. Behavior modification programs in mental health, education, and correctional settings are surveyed. Legal and ethical issues are considered. Students plan and carry out self-modification projects. *Prerequisite: Psychology 114. 1 term — 3 semester hours. Normally offered yearly.*

Psychology 357 — Community Psychology. Examines design and delivery of human services in the areas of urban planning, drug addiction, mental illness, family life centers, and half-way houses. Attention is also given to funding issues. *Prerequisite: Psychology 114. 1 term — 3 semester hours. Normally offered alternate years.*

Psychology 423 — History of Psychology. Historical treatment of major developments in psychology, with primary focus on various schools and theories of psychology including structuralism, functionalism, behaviorism, associationism, gestalt, field theory, psychoanalysis, phenomenology, and existentialism. *Prerequisite: Psychology 114. 1 term — 3 semester hours. Normally offered yearly.*

Psychology 433 — Psychological Disorders of Childhood and Adolescence. Considers psychological determinants of disturbed behavior in children and adolescents, with attention to organic and constitutional factors. Major focus is on childhood. *Prerequisite: Psychology 114; Recommended: Psychology 233 or 234 or Psychology 223. 1 term — 3 semester hours. Normally offered yearly.*

Psychology 453 — Group Dynamics. An historical treatment of the development of group process in the field of psychology. Includes T-group methods, psychodrama and role-playing. Treats present trends found in sensitivity training, encounter, experience and therapy groups. *Prerequisite: Psychology 114. 1 term — 3 semester hours. Normally offered alternate years.*

Psychology 573-574 — Practicum in Psychology. Field work placement of eight hours per week, under supervision. Includes seminar and individual conferences. Open to advanced students with at least 15 hours of Psychology by consent of instructor. Only four semester hours credited toward the major. *1 or 2 semesters — 4 semester hours each term. Normally offered every semester.*

Psychology 576 — Honors Seminar. Intensive reading/discussion of major issues and areas in Psychology. Students write papers based on research or reading in areas of interest. Open by invitation to junior and senior majors and minors with high academic standing. *1 term — 3 semester hours. Normally offered yearly.*

Psychology 578 — Directed Studies in Psychology. Substantive reading/research in area of special interest directed by a faculty member. Open to junior and senior majors by consent of instructor and with approval of department chairperson. *1 term — 3 semester hours. Normally offered every semester.*

Sociology

Department of Sociology

Professors: Fiorillo, Sullivan
Associate Professors: Morton, Spitzer (Chairperson), Topitzer
Assistant Professors: Holley, Howell, Manning, Todd
Senior Lecturer: Skeffington
Lecturers: Cordella, Lass-Schuhmacher, McCauley, Ryno

The department of sociology offers a broad range of courses, concentrations, and programs. Students wishing to major in sociology must take Sociology 113, Introduction to Sociology, before other courses in the department. There are four courses required for sociology majors: Introduction to Sociology (credit not applied to the major), Research Methods, Sociological Theory, and Field Studies (or Professional Practicum for students studying Human Factors in Aviation). These courses provide 10 credit hours (or more in the case of HFA students) toward the major requirement and form a core around which students can develop a diversified program reflecting their intellectual interests and career goals. Each of the seven programs described below — General Sociology; Crime, Law and Deviance; Health Services; Social Work; C.R.O.S.S.; Technology and Society; and Human Factors in Aviation — provides an orientation to the field as a whole as well as advanced training in topics of special interest. Students electing to minor in sociology may select their courses from among those offered within each of these programs or from the groups designated by the department.

All majors are expected to complete 8 sociology courses in addition to those required. These courses will differ depending on the program chosen, but their completion will satisfy the total sociology course requirement.

Students selecting career programs (Crime, Law and Deviance, Health Services, Social Work, C.R.O.S.S., Technology and Society, and Human Factors in Aviation) are required to take Sociology 114, Sociology and Urban Problems, before enrolling in courses within their chosen career concentration. This course is designed to bridge the gap between general sociology and career training and provide a sociological orientation to specific career tracks offered within the department.

To encourage balance and breadth in course selections, students are expected to choose at least one of their 8 sociology option courses from outside of their chosen program area. Departmental advisors should be consulted in the selection of those sociology courses most likely to complement program training in both general and specialized subject areas.

Most of the programs in sociology offers students an orientation to their fields of interest through an introductory course. These courses are Sociology 233 (Introduction to Crime and Delinquency) in the Crime, Law and Deviance Program, Sociology 253 (Medical Sociology) in the Health Services Program, Sociology 243 (Introduction to Social Work) in the Social Work Program, Sociology 264 (Technology and Society) in the Technology and Society Program, and Sociology 287 (Introduction to Aviation Systems) in the Human Factors in Aviation Program. Students should typically take these courses in their sophomore year and *before* taking other more specialized courses in their program area.

All areas of study within sociology provide opportunities for specialized study and supervised research. Advanced seminars are offered regularly in General Sociology (Sociology 426), Crime, Law and Deviance (Sociology 433), Health Services (Sociology 453), Social Work (Sociology 443), and Seminar in Sociology of Aviation (Sociology 387).

Majors who do exceptionally well in sociology courses may be eligible for participation in the Honors Program in Sociology. This program is based on an individualized pattern of course selection, directed study and participation in advanced seminars. Interested students should consult the Director of the Sociology Honors Program for further details about honors options and designated faculty advisors for information on the requirements for initiation into Alpha Kappa Delta (the Sociology Honor Society) and Phi Alpha Sigma (the Criminal Justice Honor Society).

The department offers associate degrees in two program areas: Crime, Law and Deviance and Social Work. Students may receive associate degrees in these areas after completing 62 credit hours. The sociology requirements for these degrees include Research Methods, Sociological Theory, Sociology and Urban Problems, and at least *six* additional career-related courses in sociology. Students seeking the associate degree should consult with their advisors on an appropriate pattern of course selection.

General Sociology In addition to the courses required for all majors (Sociology 113, 214, 215, and 413 or 483-486), students selecting the program in General Sociology may elect courses in areas such as the family (SOCIO 223), politics (SOCIO 224), war and peace (SOCIO 323), popular culture (SOCIO 325), social psychology (SOCIO 228) and social class (SOCIO 229). Within the area of General Sociology students may choose to concentrate on Women's Studies. Among the courses offered in this area are Women in Contemporary Society (SOCIO 273), Women and Health (SOCIO 355), Women and Crime (SOCIO 275) and Women and Work (SOCIO 286).

Those who pursue the Program in General Sociology are required to take Sociology 426 (Advanced Seminar in Sociology) in their junior or senior year. The major requirement (10 credit hours), the Advanced Seminar (3 hours), plus 21 hours of sociology electives will enable those who elect this program to accumulate the necessary 34 hours in the major. Students enrolled in the General Sociology Program are encouraged to take courses in any of the social sciences or humanities that complement their substantive interests in sociology. "Computer Applications in the Social Sciences" (SOCSC F213) and "Advanced Computer Applications in the Social Sciences" (SOCSC F313) are especially recommended for students interested in social policy and social research.

Crime, Law and Deviance Students electing the program in Crime, Law and Deviance are required to take 4 specific course (12 credit hours) in addition to the 13 hours required for all sociology majors. These courses are Introduction to Crime and Delinquency (SOCIO 233), Introduction to Criminal Justice Systems (SOCIO 234), Seminar in Crime and Delinquency (SOCIO 433) and *one* course selected from the following:

Sociology 235 Sociology of Law
Sociology 236 Sociology of Deviance
Sociology 237 Alcoholism in American Society
Sociology 333 Private Security
Sociology 334 Sociology of Policing
Sociology 335 Corrections and Punishment
Sociology 336 Probation and Parole
Sociology 337 Juvenile Justice and the Law

A pre-law advisor is available within the department for those students within the Crime, Law and Deviance Program interested in seeking admission to law school. SOCSC F213 is especially recommended for students who are seeking careers in the collection, analysis and processing of criminal justice data.

Health Services Students choosing the Program in Health Services must take 4

courses (12 credits) in addition to the 13 hours of coursework required of all sociology majors. These courses are Medical Sociology (SOCIO 253), Orientation to Health Professions (SOCIO 254), Seminar in Critical Health Issues (SOCIO 453) and *one* course selected from the following:
Sociology 255 Sociology of Mental Health
Sociology 353 Health Care Administration
Sociology 354 Sociology of Death and Dying
Sociology 355 Women and Health
Sociology 356 Sociology of Aging

Sociology 357 Problems in Community Health For students in health services, the natural science option should be satisfied by taking "Principles of Biology" and either "Bio-Ethical Issues" or "Genetics," offered by the Biology Department. Because of the growing significance of data processing in health care delivery, Social Science F213 (Computer Applications in the Social Sciences) is recommended for all students participating in this program. For those students interested in managerial careers in health services, "Principles of Accounting" in the Accounting Department and "The World of Work" in the Management Department are strongly recommended.

Continuing education opportunities are available for professionals in the field of health care who wish to incorporate work experience into their program planning. Sociology 256-259 (Special Topics in Clinical Sociology) and Sociology 358 (Advanced Studies in Clinical Settings) are specifically designed to meet the needs of students pursuing continuing education while working in applied settings within the field.

Social Work Beyond the 13 hours of required coursework in sociology, students electing the Program in Social Work are required to take 5 courses (17 credits): Introduction to Social Work (SOCIO 243), Social Work Methods and Practicum I (SOCIO 341), Social Work Methods and Practicum II (SOCIO 342), Seminar in Social Welfare Services (SOCIO 443) and *one* course selected from the following:

Sociology 343 Child Welfare Services
Sociology 344 Community Organization
Sociology 345 Health and Social Services
Sociology 346 Social Welfare and Public Policy

Sociology 228, Social Psychology, is recommended for students in the Social Work Program. Students should consult with their advisors in the selection of related social science electives but should give special consideration to taking Psychology 224 (Social Psychology) and Psychology 225 (Abnormal Psychology) in the Psychology department and "Helping Skills — Theory and Practice" offered by the Department of Psychological Services.

The C.R.O.S.S. Program (Spanish-Sociology) The Department of Sociology cooperates with the Department of Humanities and Modern Languages in a career-oriented interdepartmental major, Program CROSS (Career-Related Opportunities in Sociology and Spanish). This program brings together the strengths of two fields: Sociology and Spanish. The program can serve as preparation for work with Spanish speaking populations. It essentially provides a student with knowledge and skills in the Spanish language and in a particular area of sociology. The CROSS Program consists of combining 21 hours of Spanish with 25 hours of Sociology: the student may choose a program in General Sociology, Crime, Law and Deviance, Health Services, Social Work or Technology and Society. In addition, the program offers students the opportunity for field experiences while the sequence of courses in Spanish is intended to provide the necessary foreign language proficiency.

Spanish Courses	Sem. Hrs.
Spanish 201-202	6
Spanish 207-208	6
Spanish 303-304	6
Any Spanish course above 303-304	3
	21

Sociology Courses	Sem. Hrs.
Sociology 113 Introduction to Sociology	3
Sociology 114 Sociology and Urban Problems	3
Sociology 214 Research Methods	3
Sociology 215 Sociological Theory	3
PLUS one course from the following	3
Sociology 227 Sociology of Minorities	
Sociology 233 Introduction to Crime and Delinquency	
Sociology 243 Introduction to Social Work	
Sociology 253 Medical Sociology	
Sociology 264 Technology and Society	
PLUS two courses in the students area of special interest within sociology	6
	25

Technology and Society For students interested in the impact of technology on society and the ways in which social structures, institutions and practices influence technological change, the department offers a career-oriented program in technology and society. In addition to the 13 hours of required coursework in sociology, students selecting this program are required to take 4 courses (12 credits). They are Technology and Society (SOCIO 264), Work and Occupations (SOCIO 283), and Computers and Society (SOCIO 265) and one course selected from the following:

Sociology 263 Business and Society
Sociology 285 Human Behavior in Organizations
Sociology 286 Women and Work
Social Sc 213 Computer Applications in the Social Sciences
Sociology 385 Social Forces in Transportation
Sociology 386 Human Factors in Aviation

Students enrolled in this program are also encouraged to take Sociology 426 (Advanced Seminar in Sociology) to help them integrate their class room and field experience in the area. Whenever possible students should consult with their advisors concerning complementary course selections in the School of Management and relevant areas of the physical sciences.

Human Factors in Aviation Students electing the Human Factors in Aviation Program are required to take Introduction to Sociology, Research Methods, Sociological Theory, and Professional Practicum (SOCIO 483-486). The minimum number of credit hours to be taken in the practicum is 8, but students working in applied settings may enroll in up to 16 credit hours under the supervision of the Coordinator of Aviation Programs — Professor John L. Sullivan. The practicum may be taken in conjunction with any of the four courses required of all those in the program: Introduction to Aviation Systems (SOCIO 287), Social Forces and Transportation (SOCIO 385), Human Factors in Aviation Systems (SOCIO 386) and Seminar in Sociology of Aviation (SOCIO 387). One additional course must also be chosen from either Legal Forces in Aviation Systems (SOCIO 388) or Computer Applications in the Social Sciences (SOCSC F213). Advanced Computer Applications in the Social Sciences (SOSC F313) is recommended for students interested in developing data analysis skills in aviation settings.

Continuing education opportunities are available for aviation professionals who wish to incorporate work experience into their program planning. Sociology 483-486, the Professional Practicum, as well as the other required courses in the program, are specifically designed to meet the needs of the students pursuing continuing education while working in aviation settings. Students taking advantage of the continuing education option may develop an individualized plan of instruction while working toward the safer and more efficient operation of aviation equipment and systems.

Sociology Courses

Sociology 113 — Introduction to Sociology. An introduction to the sociological understanding of human interaction, group process and social structures. Students are introduced to basic concepts, theories and methods of sociological investigation. *1 term — 3 semester hours. Normally offered every semester. Fulfills the Social Science Option. Required for all sociology majors.*

Sociology 114 — Sociology and Urban Problems. A sociological examination of the city and its problems including attention to the origins, development and transformation of the physical and social environment of urban areas. Types of social intervention, including careers in criminal justice, health services and social services, are discussed in conjunction with the dilemmas and prospects of modern cities. *1 term — 3 semester hours. Normally offered every semester. Required for students in the Crime, Law and Deviance, Health Services, Social Work and Human Factors in Aviation Programs.*

Sociology 214 — Research Methods. How sociologists decide what to study, and how they select a research design, sample and collect data, analyze results, interpret findings, and write up reports. Students are introduced to the techniques most frequently used by sociologists and undertake their own small research project. *1 term — 3 semester hours. Normally offered every semester. Required for all sociology majors.*

Sociology 215 — Sociological Theory. An examination and comparison of the major theoretical approaches in contemporary sociology. Contributions of different branches of sociology to theory are explored with special attention to the origins and consequences of sociological explanations. *1 term —3 semester hours. Normally offered every semester. Required for all Sociology Majors.*

Sociology 413 — Field Studies. On the basis of their interests students are assigned to supervised field practica and complete a research project. Concepts learned in the classroom are integrated with practical problems of the world of work. *1 term — 4 semester hours. Normally offered every semester. Restricted to juniors and seniors. Required for all Sociology Majors except students in the Human Factors in Aviation program.*

Sociology 223 — Family and Society. An exploration of problems and prospects for family life in American society. Emphasis is placed on the relationship between families and other social arrangements, and the changing functions of families in contemporary society. *1 term — 3 semester hours. Normally offered yearly.*

Sociology 224 — Political Sociology. A consideration of the consequences of political structure. Special attention is given to the political economy of the U.S. Capitalism, the role of elites, sources of resistance and strategies of change internally and in the international sphere. *1 term — 3 semester hours. Normally offered alternate years.*

Sociology 225 — Sociology of Romance. The meaning of romance and courtship today and its social consequences in marriage, homogamy, stratification, and divorce. The historical origins of romanticism and the sources of romance in socialization, books and magazines, television and movies, popular music and peer group membership are also considered. *1 term — 3 semester hours. Normally offered alternate years.*

Sociology 226 — Social Movements and Change. How people in social movements change their attitudes, behavior and sometimes the structure of society. Possible topics include: fashion movements and youth culture; poor people's movements; awareness movements and cults; movements of the 1960s; millenarian movements and revolutions. *1 term — 3 semester hours. Normally offered alternate years.*

Sociology 227 — Sociology of Minorities. An investigation of the dynamics of conflict and cooperation in race and ethnic relations. Emphasis is placed on the social context within which groups are identified and treated as minorities, the social origins of prejudice, scapegoating, and discrimination and pathways to conflict resolution, containment and escalation. *1 term — 3 semester hours. Normally offered yearly.*

Sociology 228 — Social Psychology. Focuses on how individuals develop a sense of self through interaction with others. The connections between the individual and society are examined with an emphasis on interaction patterns and symbolic meanings in everyday life. *1 term — 3 semester hours. Normally offered alternate years.*

Sociology 229 — Social Class and Inequality. This course examines the difference between the life experience of those who are rich, poor and middle class. Topics include: the elite in Boston; theories of inequality; blue collar neighborhoods; the hard living poor; and ethnic and sexual stratification. *1 term — 3 semester hours. Normally offered alternate years.*

Sociology 323 — Sociology of War and Peace. The social structures and processes shaping war and peace movements are explored with special attention to institutional and ideological supports for conflict and conflict resolution both within and between societies. Topics may include: the technology of peace and war; "arms races"; cold vs. hot wars, the costs of preparing for and waging wars; and the social characteristics of peace movements. *1 term — 3 semester hours. Normally offered alternate years.*

Sociology 325 — Popular Culture in America. An investigation of the images of life provided by mass communications, the educational system and official culture. Topics include: the growth of the youth culture since the 1950s; images of working people; women, minorities and advertising; changing ideas of success; consciousness raising and contra-cultures. *1 term — 3 semester hours. Normally offered yearly*

Sociology 327 — Alcohol and Family Problems. An explanation of what happens in families traumatized by alcoholism. Focusing on how families react, change and readjust to alcoholism as well as what help is available, the course offers a critical review of theory and practice. *1 term — 3 semester hours. Normally offered alternate years.*

Sociology 423 — Independent Study. Members of the department hold special meetings with students and direct them in investigating topics of interest in sociology. Arrangements for independent study must be approved by the supervising instructor and the Department Chairperson. *1 term — 3-6 semester hours. Restricted to juniors and seniors.*

Sociology 426 — Advanced Seminar in Sociology. An investigation and synthesis of significant themes and problems in sociology. Students develop and implement a design for the investigation of selected problems under faculty supervision. *Prerequisites: Sociology 214, 215. 1 term — 3 semester hours. Normally offered yearly. Restricted to juniors and seniors and required for all majors in the General Sociology Program.*

Sociology 233 — Introduction to Crime and Delinquency. An in-depth introduction to theoretical perspectives on criminal and delinquent behavior. The course reviews the social dimensions of crime and delinquency (e.g. categories of offenses and offenders, victimization patterns, regional variations, etc.) and offers a brief analysis of criminal justice issues. *1 term — 3 semester hours. Normally offered every semester. Required for all majors in the Crime, Law and Deviance Program.*

Sociology 234 — Introduction to Criminal Justice Systems. An overview of issues and social variables involved in the pre-arrest and arrest stages followed by a more in-depth analysis of pretrial, trial, sentencing, and correctional phases. Sociological and criminal justice models are examined and compared with the actual processes and purported functions of criminal justice agencies. *Prerequisite: Sociology 233. Required for all majors in the Crime, Law and Deviance Program. 1 term — 3 semester hours. Normally offered yearly.*

Sociology 235 — Sociology of Law. Law and legal systems are examined in contemporary society. Emphasis is placed upon the manner in which legal structures and processes interact with other social arrangements and are transformed over time. *1 term — 3 semester hours. Normally offered yearly. Fulfills the Social Science Option.*

Sociology 236 — Sociology of Deviance. Deviant behavior is analyzed in terms of socialization, deviant roles and identities, social control, and other social processes. Specific forms of deviance are discussed from a variety of sociological perspectives. *1 term — 3 semester hours. Normally offered alternate years.*

Sociology 237 — Alcoholism in American Society. Some of the social factors involved in identifying, treating and controlling alcoholism are discussed. Emphasis is placed on the conflicts and problems associated with current theories and programs. *1 term — 3 semester hours. Normally offered alternate years.*

Sociology 333 — Private Security. An investigation of the social sources and consequences of the private (non-public and profit-oriented) provision of policing and security services. Historical and contemporary forms of private policing are examined in connection with the changing nature of the "security problem," the relationship between public and private policing and the more general issues raised by the buying and selling of security. *1 term — 3 semester hours. Normally offered alternate years.*

Sociology 334 — Sociology of Policing. An investigation of the emergence, organization, and structure of police systems. The course focuses on the conditions surrounding the relationship between the police and policed in different historical, political and economic contexts. *1 term — 3 semester hours. Normally offered alternate years.*

Sociology 335 — Corrections and Punishment. A sociological exploration of coercive and incapacitative responses to crime. Attention is given to the origins and patterning of segregative controls, the correctional claims of prison systems, alternatives to incarceration and relationships between types of crime, and criminals, and varieties of punitive response. *1 term — 3 semester hours. Normally offered alternate years.*

Sociology 336 — Probation and Parole. Correctional theories are reviewed along with the historical development of probation and parole. Current research and analytical perspectives reflecting on administrative problems, innovative policies, and the internal philosophical inconsistencies of these systems are examined. *1 term — 3 semester hours. Normally offered alternate years.*

Sociology 337 — Juvenile Justice and the Law. Considers the problems surrounding the legal definition and handling of juveniles who confront the law as offenders, clients and victims. Attention is devoted to the study of the special legal categories and procedures established for juveniles, the problems facing professionals providing juvenile services and the most significant directions of legal and social change affecting youth in our society. *1 term — 3 semester hours. Normally offered alternate years.*

Sociology 433 — Seminar in Crime and Delinquency. An analysis and interpretation of empirical and theoretical issues in criminology and delinquency studies. Selected topic areas and issues include: classical and modern theory, etiology, criminal justice systems, and the sociology of law. *Prerequisites: Sociology 233, 234. Restricted to juniors and seniors. Required for all majors in the Crime, Law and Deviance Program. 1 term — 3 semester hours. Normally offered yearly.*

Sociology 243 — Introduction to Social Work. The major value orientations, service systems, and methods of practice associated with professional social work are presented. The historical development of social work and the skills upon which it is based are also explored. *1 term — 3 semester hours. Normally offered yearly. Required for all majors in the Social Work Program.*

Sociology 341-342 — Social Work Methods and Practicum I and II. Major values, basic concepts, theories and skills associated with the primary methods of social work practice are presented. The course helps develop an integrated field placement in an agency setting consistent with student career goals. *Prerequisite: Sociology 243. Required for all majors in the Social Work Program. 2 terms — 8 semester hours. Normally offered in the Fall and Spring semesters.*

Sociology 343 — Child Welfare Services. A survey of the historical development and current composition of services for children, including income maintenance, day care, foster and institutional care, and the adoption process. *1 term — 3 semester hours. Normally offered alternate years.*

Sociology 344 — Community Organization. A study of the different types and functions of communities. Through identifying community needs, resources and structures, students learn effective ways to organize for change. *1 term — 3 semester hours. Normally offered alternate years.*

Sociology 345 — Health and Social Services. An examination of the relationship between health and social services in the organization and delivery of client/patient care. Reciprocal responsibilities and agency problems are studied on both interactional and organizational levels. *1 term — 3 semester hours. Normally offered alternate years.*

Sociology 346 — Social Welfare and Public Policy. A treatment of traditional and innovative methods for resource allocation in American culture as it affects delivery systems and client bases. *Prerequisite: Sociology 243. 1 term — 3 semester hours. Normally offered alternate years.*

Sociology 443 — Seminar in Social Welfare Services. Contemporary issues and problems associated with professional social work and the broader framework of human services are explored within an atmosphere of small group discussion and independent study. *Prerequisites: Sociology 243, 341, 342. Restricted to juniors and seniors. Required for all majors in the Social Work Program. 1 term — 3 semester hours. Normally offered yearly.*

Sociology 253 — Medical Sociology. The course explores social factors in health, illness, death and healing. Attention is given to the social organization of medical care including the roles of the physician and patient, the clinic and hospital, public health and preventive care. *1 term — 3 semester hours. Normally offered every semester. Required for all majors in Health Services. Fulfills the Social Sciences Option.*

Sociology 254 — Orientation to Health Professions. The course surveys the role of allied health professions in the delivery of health care. The history and current practice of allied health professions are reviewed and the relationship between care-givers, managers and support staff is explored. *Required for all majors in Health Services. 1 term — 3 semester hours. Normally offered yearly.*

Sociology 255 — Sociology of Mental Health. An investigation of the social history of mental illness, epidemiological and cross-cultural approaches to mental disorder, as well as the career of the mental patient, the functions of psychiatry in society, and types of community and social treatment. *1 term — 3 semester hours. Normally offered alternate years.*

Sociology 256-259 — Special Topics in Clinical Sociology. Specialized topics based on clinical training and experience for health professionals these credits can only be applied to general college elective requirements and are only available to sociology majors in the Health Services Program. *Content, prerequisites, and hours to be announced.*

Sociology 353 — Health Care Administration. A study of the current philosophy and practice relating to health services administration. Class discussion, a semester project relating to a clinical setting and analysis of problems peculiar to health care delivery are included. *Prerequisite: Sociology 253. 1 term — 3 semester hours. Normally offered alternate years.*

Sociology 354 — Sociology of Death and Dying. An examination of changing definitions of life and death, social factors affecting causes and rates of death, care of the dying and their families, institutionalization, the funeral industry, suicide, crisis intervention and the impact of technology on the dying process. *1 term — 3 semester hours. Normally offered alternate years.*

Sociology 355 — Women and Health. An exploration of topics that relate particularly to women as providers and consumers in the health care system. The course will consider historical and current information on issues of reproduction, technology, health and illness. *1 term — 3 semester hours. Normally offered yearly.*

Sociology 356 — Sociology of Aging. A consideration of the physiological, psychological, and social factors associated with the aging process. Contemporary American values toward the elderly are compared and contrasted with historical and cross-cultural studies. Current opportunities and techniques enabling the elderly to enrich and expand their societal roles are also explored. *1 term — 3 semester hours. Normally offered alternate years.*

Sociology 357 — Problems in Community Health. Emphasis is on the sociological sources and consequences of efforts to insure public health. Community-based and epidemiological studies are reviewed and comparative investigations of health care delivery and the relationship between public and private health care are developed. *Prerequisite: Sociology 253. 1 term — 3 semester hours. Normally offered alternate years.*

Sociology 358 — Advanced Studies in Clinical Settings. Practica-based training for health professionals working in specialized clinical settings. These credits can only be applied to general college elective requirements and are only available to sociology majors in the Health Services Program. *Prerequisites: Sociology 256, 257, 258, 259. 1 term — 3 semester hours.*

Sociology 453 — Seminar in Critical Health Issues. The course identifies and investigates some of the major issues facing our health care system in a seminar format. Special topics are developed and opportunities for intensive research are provided for advanced students. *Prerequisites: Sociology 253. Restricted to juniors and seniors. Required for all majors in Health Services. 1 term — 3 semester hours. Normally offered yearly.*

Sociology 263 — Business and Society. An examination of the relationship between social and economic systems with special attention to the structures and practices of modern business organizations. Among the issues considered are: the social responsibility of business, participatory alternatives, economic justice, affirmative action, deindustrialization and the flight of modern corporations. *1 term — 3 semester hours. Normally offered yearly.*

Sociology 264 — Technology and Society. An examination of the ways in which social structures and processes influence and are influenced by modern technology. The transformation of ideas, needs, and social practices in technologically advanced societies is considered in conjunction with changes in the way in which we understand the world, the nature of work and leisure, the processing of information and the character of social institutions. *1 term — 3 semester hours. Normally offered yearly.*

Sociology 265 — Computers and Society. An introduction to computers and their impact on society. The course examines the development, working principles and uses of computers in areas such as industry, offices, homes, schools, medicine, air transport and artificial intelligence. Topics include: health and safety issues; crime, vandalism and computer security; careers in computing; futurology; high-technology applications; and the ideology of computers in society. *1 term — 3 semester hours. Normally offered alternate years.*

Sociology 273 — Women in Contemporary Society. A critical analysis of theory and research related to the socialization, roles, and social participation of women in contemporary society. *1 term — 3 semester hours. Normally offered yearly. Fulfills the Social Science Option.*

Sociology 275 — Women and Crime. A consideration of women as victims of crime, as criminals, and as crime-fighters. A look at the extent and nature of the relationship between women and crime in America. *1 term — 3 semester hours. Normally offered alternate years.*

Sociology 283 — Sociology of Work and Occupations. A discussion of the world of modern work that includes the origins of contemporary industry and job characteristics, the current industrial and occupational picture, and the future of human labor. Attention is given to conditions of work, problems of alienation, occupational and role changes, and worker control of work life. *1 term — 3 semester hours. Normally offered yearly. Fulfills the Social Science Option.*

Sociology 285 — Human Behavior in Organizations. An analysis of forces motivating the behavior of people in various work settings, including problems of authority and influence, development of roles, initiating change and dealing with resistance. Various approaches include lectures, cases, examination of research and experiential learning. *1 term — 3 semester hours. Normally offered alternate years.*

Sociology 286 — Woman and Work. An exploration of the relationships between gender roles, work environments, and careers in American society. The problems and prospects faced by women in the world of work are considered with special attention to power and sexism in the workplace, domestic vs. organizational work, role conflicts for working women, and the relationship between changing images of women and changing patterns of female employment. *1 term — 3 semester hours. Normally offered yearly.*

Sociology 287 — Introduction to Aviation Systems. The course acquaints the student with fundamental forces and elements associated with aviation and the process of flight and their impact on America and other societies. Significant stages in the development of major military, commercial, and general aviation systems are presented. *1 term — 3 semester hours. Normally offered yearly. Required for all Human Factors in Aviation students. Fulfills the Social Science option requirement.*

Sociology 385 — Social Forces and Transportation. A consideration of the social factors, implications, and issues associated with the systems, techniques, and hardware employed in the movement of people, goods, and energy sources on land, sea, air, and space. *1 term — 3 semester hours. Normally offered yearly. Required for all Human Factors in Aviation students.*

Sociology 386 — Human Factors in Aviation Systems. Alternative behavior patterns for key positions in flight operations are examined here. Suggestions for improved role performance and training programs are offered for such positions as captain, first and second officer/flight engineer, flight attendant, dispatcher, corporate and general aviation pilot, and air traffic controller. *1 term — 3 semester hours. Normally offered yearly. Required for all Human Factors in Aviation students.*

Sociology 387 — Seminar in Sociology of Aviation. Significant issues and problems associated with major systems within the aviation community are discussed. The course examines interaction between the Federal Aviation Administration, the airline industry, aircraft manufacturers, general aviation, and related professional associations. *1 term — 3 semester hours. Normally offered yearly. Required for all Human Factors in Aviation students.*

Sociology 388 — Legal Forces and Aviation Systems. An examination of the relationships between the law and the aviation community. Particular attention will be paid to the manner in which legal forces affect the interactive process between governmental and private aviation systems and the quality of life for aviation professionals. *1 term — 3 semester hours. Normally offered alternate years.*

Sociology 483-486 — Professional Practicum. Supervised professional activity in applied settings. Students performing career-related tasks are guided in the application of sociological methods, concepts, and theories to their work experience. *1 term — each segment 4 semester hours. Consent and prerequisites to be announced.*

Spanish

Department of Humanities and Modern Languages

Professors: Chiasson, Hastings, Mendez-Herrera
Associate Professors: Parks, Smythe, Weitz (Chairperson)
Assistant Professor: Hourtienne
Lecturers: Kelton, Radtke
Professors Emeriti: Fang, Fehrer, Goodrich, Petherick

The major in Spanish consists of the study of the Spanish language, its literature, and the civilization of the Spanish-speaking world. The major requires 30 semester hours of Spanish courses beyond the Elementary level, including Hispanic Culture and Advanced Conversation.

A Minor concentration in Spanish requires 18 credit hours as follows: Spanish 101-102, 201-202, sequenced as indicated; and two courses from among the following: Spanish 207-208, 305, 401, 402, 403, 404, in any order or sequence. Students who begin with a minor concentration at Intermediate level or beyond will complete the required 18 hours with selections from upper level courses, listed above.

Students who arrive at Suffolk University with 2 years of high school Spanish with average grades of B– or better will begin Spanish studies at Intermediate level (201-202); students who have succesfully completed a third or fourth year course in high school will consult with an advisor of the Department of Humanities and Modern Languages for appropriate placement.

Program CROSS, a career-oriented program offered in cooperation with the Department of Sociology, combines selected courses in Spanish and Sociology for the preparation of entry level requirements for a career in social work with Hispanic minorities. See page 193.

Under joint sponsorship with the Department of Economics the Department of Humanities and Modern Languages offers a career-oriented program in International Economics that combines courses in Spanish, French or German; economics; and area studies. See page 152.

The Department of Humanities and Modern Languages, in cooperation with the Department of Journalism, offers a major program in Bilingual Journalism, for students who wish to start a career in the foreign language media. See page 155.

Spanish Courses

Spanish 101-102 — Elementary Spanish. Intensive study and practice of oral and written language skills. Readings and discussions of cultural materials in Spanish. Extensive use of audio-visual materials. Two laboratory sessions per week. *2 terms — 6 semester hours. Offered every year.*

Spanish 201-202 — Intermediate Spanish. Study of Spanish through texts and other materials of cultural interest. Development of oral language skills through practice in class and language laboratory. Extensive use of audio-visual materials. *2 terms — 6 semester hours. Offered every year.*

Spanish 207-208 — Hispanic Culture. A survey of Hispanic civilization emphasizing the contributions of Spanish-speaking peoples to the Western tradition in art, thought, religion and letters. Abundant use of audio-visual materials. Recommended for pre-professional needs. Texts in Spanish. *Prerequisite: Intermediate Spanish or instructor's permission. 2 terms — 6 semester hours. Offered yearly.*

Spanish 303-304 — Advanced Conversation. Vocabulary building, normalization of pronunciation, development of conversational skills through a program of group discussions on subjects of interest to students enrolled. Emphasis on the Spanish of Latin America. *Prerequisite: Intermediate Spanish or instructor's permission. 2 terms — 6 semester hours. Offered yearly.*

Spanish 305 — Island Cultures of the Caribbean. An area studies course that brings together the geography, social history, art and literature of the island nations of Puerto Rico, Cuba and the Dominican Republic. Extensive use of audio-visual materials. Discussion-type classes, conducted in English. Texts in translation. Recommended for educators, administrators and social workers. *No prerequisite. 1 term — 3 semester hours. Normally offered alternate years.*

Spanish 306 — The Hispanic Heritage in the United States. An historical and cultural survey of the Spanish-speaking peoples in the United States. Emphasis on values, socio-economic structure, language, folklore and literature. Conducted in English. Texts in translation. *No prerequisite. 1 term — 3 semester hours. Normally offered alternate years.*

Spanish 401 — Lazarillo, Don Quijote and Don Juan. Three views of the world from Spain's Golden Age, assembled out of the deeds and words of three remarkable literary characters, with some consideration of the fortunes of these creations in later times and other lands. Discussion and readings in Spanish. *1 term — 3 semester hours. Normally offered every third year.*

Spanish 402 — Social Literature of Latin America. Reading and discussion of significant literary works (in prose and poetry) related to social themes or problems of Mexico, the Carribean nations, and South America. Sociological and political essays on the same subjects. Dscussion and readings in Spanish. *1 term — 3 semester hours. Normally offered every third year.*

Spanish 403 — Masterpieces of the Spanish Theater. Readings from the great dramas of Hispanism, including works of Lope de Vega, Calderon, Zorrilla, Lorca, Sastre and Casona. Discussion and readings in Spanish. *1 term — 3 semester hours. Normally offered every third year.*

Spanish 404 — Modern Hispanic Literature. A survey of literary works of the twentieth century; prose fiction, drama, and poetry of Spain and several Latin American countries. Readings selected to illustrate the main intellectual currents that have emerged in the Hispanic world in the twentieth century. Discussion and readings in Spanish. *1 term — 3 semester hours. Normally offered every thrid year.*

Spanish 501-502 — Independent Study. Students meet with a department member to confer on prearranged subjects based on readings in areas of particular interest to them. *Instructor's permission. 1 term — 3 semester hours.*

Graduate Education

Department of Education

Professors: Unger (Chairperson), Eskedal, Lewandowski, McCarthy, Perlman
Associate Professors: Ash, D'Abrosca, S. Mahoney, Shatkin, Winters
Assistant Professors: Lyons, Sartwell, Stefaney, Zifcak
Master Lecturer: Shively
Senior Lecturers: Duffy, Perkins
Lecturers: Cahalane, Chermak, Colarusso, Dauwer, DiLoretto, Felice, Hojlo, Jackson, Meggison, Najarian, Quintiliani, Tenore, Zwicker.

Major Fields of Study — The Department of Education offers courses leading to the degree of the Ed.M. in Administration and Supervision, and the C.A.G.S. in Leadership, M.S. in Business Education, and the C.A.G.S. in Office Technologies and Administration Services, M.Ed. in School Counseling or Human Resource Development, C.A.G.S. in School Counseling, Counseling, M.S. in Counseling or Human Resource Development, C.A.G.S. in School Counseling, Counseling, or Human Resource Development, Ed.M. in Foundations of Education, Ed.M. Consulting Teacher of Reading and Ed.M. in Special Education. An Ed.M. degree for general purposes, not directly related to fulfilling state certification in public education, is also available.

Requirements for Graduate Degrees in Education The Graduate Education Programs of Suffolk University offer advanced study for students who have Bachelor's and Master's degrees from the University or from other approved educational institutions. Classes are scheduled in the Day and Evening Divisions.

A requirement for the status of degree candidate at the Master's graduate level is an undergraduate program of study equivalent to either the B.A. or B.S. degree, and required for degree candidacy at the Certificate of Advanced Graduate Study is a Master's program related to the chosen field of study.

The purpose of the Graduate Program is to offer facilities for advanced study and research so that the students may receive a comprehensive view of the field of knowledge in which they are working. Here also students may acquire the techniques needed for independent investigation in their fields of interest.

Candidates for graduate degrees must complete a program of study approved by their program director and their faculty advisor within five years after the start of graduate course work.

Each degree candidate must file an application for the award of his/her degree on official forms at the Registrar's Office at the beginning of his/her final semester.

Graduate courses in business administration, public administration, and other subjects may be applied to the graduate education degrees at Suffolk University, subject to the approval of the Chairperson of the Department of Education. Students who wish to transfer graduate credit to another university should obtain the prior approval of their deans.

The completion of a minimum of thirty to thirty-six hours of graduate work is required. Any grade less than a B (but not less than a C) must be offset by the appropriate honor grade in order to maintain graduate degree candidacy. Continuance of degree candidacy status requires that only a maximum of six semester credits less than B may be offset in this manner. Should a student earn a third C grade his or her continuance in a graduate program is contingent upon the review of the Committee on Admission and Retention, with a recommendation from the appropriate Program Director. A minimum grade of B is required in all field experiences. The Department wishes to emphasize that it reserves the right to require the withdrawal of a student from a graduate program if in its estimation the probability of his/her success is doubt-

ful. Such factors as academic performance, interest, effort and personality enter into the judgment.

Admissions and Registration Regulations A prospective student seeking admission to the Graduate Program should proceed as follows:

Each applicant must file an application form and two letters of recommendation and have transcripts from all other colleges attended sent directly to the Admissions Office.

A Suffolk University undergraduate who is certified by the registrar as needing nine semester hours or less to meet his/her degree requirements may be granted permission by the graduate committee to preregister for graduate credit in a limited number of courses, provides s/he meets all of the other admission requirements. In no case should the student thus registered enroll in more than a total of five courses.

It is recommended that candidates for full-time study in the Counseling and Human Relations Programs arrange for an interview with the Admissions Coordinator of the Counselor Education Faculty.

Transfer Credits At the time of matriculation students may request transfer of not more than six graduate credits completed at other accredited institutions. Only courses in which a student has received a grade of B or better will be accepted. Courses taken more than five years prior to the student's acceptance into his/her present program will not be considered for transfer credit except in extraordinary instances.

Non-Degree Graduate Student Status — Students may elect to take graduate courses in education without applying for degree status in any of the several programs. Should such students subsequently apply for degree status a maximum of two courses or six semester hours earned while in the status of a special student will be accepted and applied to the requirements of the degree. Students seeking degree status are required to comply with the admissions regulations of the particular graduate program.

Students who apply for degree status and who for any reason are not granted such status may be placed in the category of probationary student. Such students must take two courses recommended in the program to which they have applied, and their application for degree status will be re-evaluated by the Office of Admissions and the Department of Education after the successful completion of these two courses with grades of B or better. These two courses must be completed within one academic year of the time the candidate begins his study. Special non-degree graduate students in Counselor Education should consult that section of this catalog in which the Counselor Education program is described.

Massachusetts Certification All of Suffolk University's programs in education which train personnel for public schools are accredited by the State Department of Education. Thus graduates are eligible for certification in Massachusetts. However, application for certification must be made by the graduate directly to the State Department. In addition to the application, a practicum report and an official transcript of graduate level work must also be submitted. The State Department also requires a fee, proof of good health and sound moral character and possession of a bachelor's or higher earned degree. Specified programs in Education have been approved by the State Department of Education for inclusion in the reciprocity privileges of the Interstate Certification Compact.

Placement Services During the semester prior to anticipated graduation, students should register with the Suffolk University Placement Service.

Ed.M. in Administration and Supervision

Objectives of the Program: This program has been developed to provide appropriate competencies for educational managers in public schools, public and private higher education, educational agencies or organizations, and training components in business and industry. It is organized into four options:

- Option A — Public School Supervisor/ Director
- Option B — Public School Assistant Principal/Principal
- Option C — General Educational Administration
- Option D — Higher Education Administration.

Courses in the program have been designed to stress the basic management functions of planning, organizing, staffing, supervising and evaluating as those activities are carried on in educational settings.

Description of the Program:
Candidates can generally expect to complete degree requirements in two years of part-time study, although shorter or longer durations are possible. The minimum program requirement is 36 semester hours of credit. Individuals are responsible for planning their programs in consultation with Professor Joseph M. McCarthy.

Option A
Public School Supervisor/Director

Description: This program is designed to prepare personnel for employment as program director or coordinator, department head, curriculum coordinator or specialist, supervisor, and related roles. *Leads to state certification as supervisor/director.* Applicants must demonstrate evidence of teacher certification in Massachusetts plus three years of teaching experience.

Core Requirements: 15 Sem. Hrs.
Education 600 — Educational Management *OR*
Education 603 — Leadership
Education 614 — Instructional Supervision
Education 790 — Research and Evaluation Methods
OR
Education 640 — Reading and Research
Education 794 — Social Philosophy of American Education
Education 800 — Curriculum Development and Evaluation

Program Requirements: 6 Sem. Hrs.
Education 617 — Personnel Management
Education 796 — Improving Instruction

Restricted Electives: 6 Sem. Hrs.
To be chosen by the student in consultation with the advisor from a list of appropriate courses.

Field Experience: 9 Sem. Hrs.
Education 644 — Professional Improvement Field Experience
Education 645 — Practicum in Administration

Option B
Public School Assistant Principal/Principal

Description: Designed to prepare persons to fill principalship positions at N-5, 5-9 or 9-12 level. *Leads to state certification as assistant principal/principal.* Applicants must demonstrate evidence of classroom teacher certification in Massachusetts as well as three years of teaching experience.

Core Requirements: 15 Sem. Hrs.
Education 600 — Educational Management *OR*
Education 603 — Leadership
Education 614 — Instructional Supervision
Education 790 — Research and Evaluation Methods *OR*
Education 640 — Reading and Research
Education 794 — Social Philosophy of American Education
Education 800 — Curriculum Development and Evaluation

Program Requirements: 6 Sem. Hrs.
Education 613 — Legal Aspects of Educational Administration
Education 615 — The Principalship

Restricted Electives: 6 Sem. Hrs.
To be chosen by the student in consultation with the advisor from a list of appropriate courses.

Field Experience: 9 Sem. Hrs.
Education 644 — Professional Field Experience
Education 645 — Practicum in Administration

Option C
General Educational Administration

Description: Designed to prepare personnel for administrative roles in schools, educational agencies, and training/instructional programs in public agencies, business and industry. *Does not lead to state certification in school adminsitration.*

Core Requirements: 12 Sem. Hrs.
Education 600 — Education Management *OR*
Education 603 — Leadership
Education 614 — Instructional Supervision
Education 790 — Research and Evaluation Methods *OR*
Education 640 — Reading and Research
Education 800 — Curriculum Development and Evaluation

Restricted Electives: 15 Sem. Hrs.
To be chosen by the student in consultation with the advisor.

Field Experience: 9 Sem. Hrs.
Education 644 — Professional Improvement Field Experience
Education 645 — Practicum in Administration

Option D
Higher Education Administration

Description: Designed to provide competencies for those filling posts in admissions, alumni, development, financial aid, housing, placement, registrar's and student activities offices from the junior/community college level to the university.

Core Requirements: 12 Sem. Hrs.
Education 600 — Educational Management *OR*
Education 603 — Leadership
Education 625 — Organization and Administration of Higher Education
Education 626 — Legal Problems of Higher Education
Education 790 — Research and Evaluation Methods *OR*
Education 640 — Reading and Research

Restricted Electives: 15 Sem. Hrs.
To be chosen by the student in consultation with the advisor.

Field Experience: 9 Sem. Hrs.
Education 644 — Professional Improvement Field Experience
Education 645 — Practicum in Administration

Certificate of Advanced Graduate Study (C.A.G.S.) in Leadership

This program aims to assist personnel in a variety of settings to develop their leadership skills on the basis of the state of the art. It emphasizes courses and supervised field experience designed by the student and his/her advisor to enhance the individual's professional functioning and assist his/her advancement. The program provides the following options:

I. Higher Education — for faculty and for personnel in admissions, alumni relations, development, financial aid, housing, placement, registrar, student activities and academic administration;

II. Public School — for faculty and for principals, assistant principals, supervisors, curriculum developers, curriculum coordinators, program directors, department heads, and evaluators.

III. Organizational Development — for trainers, training directors, human resource developers and other personnel in public and private sectors.

Program of Studies

Core Requirements: 12 Sem. Hrs.

ED 603 — Leadership
ED 604 — Administrative Communication

Six credit hours in research methodology, to be selected from such appropriate courses as:

ED 605 — Planning and Evaluation
ED 619 — Proposal Writing and Grant Development
ED 635 — Field Project: Organizational Analysis
ED 640 — Reading and Research
ED 715 — Methods of Research: Statistics
ED 790 — Research and Evaluation Methods

Specialized Electives: 12 Sem. Hrs.

Option A: Higher Education

ED 616 — Advanced Supervision
ED 617 — Personnel Management
ED 618 — Collective Bargaining and Negotiation
ED 626 — Legal Problems of Higher Education
ED 627 — Junior/Community College Processes and Problems
ED 628 — Crucial Issues in Higher Education
ED 629 — Higher Education Finance
ED 636 — Field Project: Organizational Development

Option B: Public School

ED 600 — Educational Management
ED 606 — American Middle Schooling Processes and Problems
ED 607 — American Secondary Schooling Processes and Problems
ED 613 — Legal Aspects of Educational Administration
ED 614 — Instructional Supervision
ED 615 — The Principalship
ED 617 — Personnel Management
ED 618 — Collective Bargaining and Negotiation
ED 796 — Learning Theory and the Improvement of Instruction
ED 800 — Curriculum Development and Evaluation

Option C: Organizational Development

ED 616 — Advanced Supervision
ED 617 — Personnel Management
ED 618 — Collective Bargaining and Negotiation
ED 623 — The Manager and the Organization
ED 803 — Design, Coordination and Teaching of Training/Instructional Programs.

Field Experience: 6 Sem. Hrs.

ED 635 — Field Project: Organizational Analysis
ED 636 — Field Project: Organizational Development
ED 637 — Field Project: Program Planning and Development
ED 638 — Field Project: Higher Education
ED 639 — Field Project: Writing for Professional Publication

M.S. in Business Education and Office Technologies

General Description of the Programs

The Master of Science in Business Education offers advanced preparation for business professionals in curriculum design, information systems, teaching methodology, and research.

Each program is open to individuals who have earned a bachelor's degree and who are currently employed or wish to pursue careers in business education at secondary and post-secondary institutions, community-based programs, adult education settings, and staff development and training positions in business and industry.

Candidates for the Master of Science in Business Education select one of the following programs.

- Business Education — General Program
- Business Education — Adult/Continuing Education Program
- Business Education — Information Processing Program
- Business Education — Teacher Certification Program

General Requirements

The minimum program requirement for candidates who hold a teaching certificate and/or a bachelor's degree in business education is 30 semester hours.

Candidates seeking teacher certification in business education and individuals with a bachelor's degree in another discipline may require additional courses which include: subject matter (when appropriate), field-based pre-practica, and student teaching.

A detailed description of the requirements is outlined under each option.

Degree candidates are advised to consult with Dr. Barbara F. Ash, Director, Programs in Business Education and Office Technologies.

Business Education — General Program

Description: This option provides advanced preparation for business educators in curriculum design, research, and teaching methodologies. The curriculum in this option is also tailored to meet the needs of individuals re-entering the business education profession.

Required Courses: 12 Sem. Hrs.

ED650 — Curriculum Construction and Program Development in Business and Office Education 3
ED654 — Introduction to Research Methods in Business and Office Education 3
ED655 — Research Seminar in Business and Office Education 3
Choice of one of the following:
ED656 — Research and Improvement in Basic Business Instruction 3
ED657 — Research and Improvement in Shorthand-Transcription Instruction..... 3
ED658 — Research and Improvement in Keyboarding Instruction 3
ED659 — Research and Improvement in Bookkeeping, Accounting, Data Processing, and Business Mathematics Instruction 3

Business Education Electives: 12 Sem. Hrs.

Electives are selected in consultation with the faculty adviser and are individualized to meet student needs and interests.

Restricted Electives: 6 Sem. Hrs.

Courses may be elected in business administration, business education, education, or liberal arts. At the discretion of the Director of Business Education and Office Technologies, six graduate credits earned *prior* to matriculation may be accepted upon entry to the program.

Business Education — Adult/Continuing Education Program

Description: This option is designed for those business education professionals seeking competencies and skills for teaching the adult learner. This program is particularly well suited for teachers and administrators employed in community and junior colleges, community-based agencies, and staff development and training programs in industry.

Required Courses: 18 Sem. Hrs.

ED650 — Curriculum Construction and Program Development in Business and Office Education
ED654 — Introduction to Research Methods in Business and Office Education
ED655 — Research Seminar in Business and Office Education
ED522 — Continuing Education for Business
ED523 — Teaching Methodology and Instructional Materials for Adult Business Education
ED723 — Adult Development

Business Education Electives: 12 Sem. Hrs.

Electives are selected in consultation with the faculty adviser and are individualized to meet student needs and interests. At the discretion of the Director of Business Education and Office Technologies, six graduate credits earned *prior* to matriculation may be accepted upon entry to the program.

Business Education — Information Processing Program

Description: This option provides advanced preparation for business educators and those in training-related positions in business and industry. A core of courses focus on competencies in systems technology related to the changing office environment.

Required Courses: 24 Sem. Hrs.

ED650 — Curriculum Construction and Program Development in Business and Office Education
ED654 — Introduction to Research Methods in Business and Office Education
ED655 — Research Seminar in Business and Office Education
ED668 — Introduction to Office Technologies
OR
ED673 — Word and Information Processing: Principles and Concepts
ED517 — Business Communications
*ED518 — Microcomputers for Business Education
*CIS211 — Introduction to Computer Information Systems
*CIS212 — Introduction to Computer Programming

**Advanced courses may be selected by those individuals meeting prerequisites.*

Business Education Electives: 6 Sem. Hrs.

Electives are selected in consultation with the faculty adviser and are individualized to meet student needs and interests. At the discretion of the Director of Business Education and Office Technologies, six graduate credits earned *prior* to matriculation may be accepted upon entry to the program.

Business Education — Teacher Certification Program

Description: This option is designed for individuals seeking certification in business education. The curriculum is also tailored to persons who hold a bachelor's degree in a discipline other than business and office education. Depending on the interests and academic background of the candidate, certification may be obtained in one of the following areas: teacher of business, teacher of secretarial skills, or teacher of business management. For candidates who have met the subject-matter requirement, the degree program requires 36-39 hours. Candidates who do not meet the subject-matter requirement will require additional courses.

Subject-Matter Requirement: 36 Sem. Hrs.

Completion of 36 hours of course content in one of the following areas:

- Business and Secretarial Skills (Teacher of Business Certificate 5-12)
- Secretarial Skills (Teacher of Secretarial Skills Certificate 5-12)
- Business Administration/Management (Teacher of Business Management Certificate 5-12)

Note: This requirement may be waived for those who have previously taken courses matching the content requirement in one of the above areas.

Required Courses: 27 Sem. Hrs.

ED203 — Foundations of Education 3
ED204 — Educational Psychology 3
ED320 — Methods of Teaching Basic Business Subjects 3
ED326 — Reading, Communication, and Mathematics Skills for Business Educators 3
ED650 — Curriculum Construction and Program Development in Business and Office Education 3
ED654 — Introduction to Research Methods in Business and Office Education 3
ED500 — Student Teaching Practicum 9

Business Education Electives: 9+ Sem. Hrs.

(9 or more hours as determined by adviser and certificate sought) Electives specified on checksheets.

ED513 — Office Simulation and Cooperative Work Experience Programs: Implementation and Design 3
ED514 — Organization, Administration, and Curriculum Development for Distributive Education 3
ED515 — Office Education Internship for Business Educators 3-9
ED516 — History and Philosophy of Career and Occupational Education 3
ED657 — Research and Improvement in Shorthand-Transcription Instruction..... 3
ED658 — Research and Improvement in Keyboarding Instruction 3
ED659 — Research and Improvement in Bookkeeping, Accounting, Data Processing, and Business Mathematics Instruction 3

Certificate of Advanced Graduate Study (C.A.G.S.) in Office Technologies and Administrative Services

The Certificate of Advanced Graduate Study in Office Technologies and Administrative Services is designed to offer preparation beyond the master's degree. This program is tailored to meet the needs of: (1) Educators seeking employment in the private sector in administrative services; (2) Business Educators responsible for updating and reshaping business curriculums to meet the needs of the changing office environment; and (3) Currently employed office managers and/or those in training-related positions in business and industry.

A core of courses focus on competencies in administrative services and systems technology. Additional courses in Office Technologies and Administrative Services may be elected to meet individual needs and interests of candidates.

The completion of thirty semester hours of graduate study is required. Additional hours may be required at the discretion of the faculty adviser.

Degree candidates are advised to consult with Dr. Barbara Ash, Director, Programs in Business Education and Office Technologies.

Required Courses: 12 Sem. Hrs.

Education 667 — Office Administration and Records Management
Education 668 — Introduction to Office Technologies
Education 669 — Personnel Administration for Business
Education 515 — Office Education Internship for Business Educators (a portion of this requirement may be waived for those with related full- or part-time experience in office technologies and administrative services.)

Specialized Electives: 12 Sem. Hrs.

Education 517 — Business Communication
Education 522 — Continuing Education for Business
Education 523 — Teaching Methodology and Instructional Materials for Adult Business
Education 524 — Conference and Workshop Organization and Public Relations
Education 670 — Data Processing: Principles and Concepts
Education 673 — Word and Information Processing: Principles and Concepts
Education 700 — Business Education: Independent Projects

Electives: 6 Sem. Hrs.

Electives are selected in consultation with the faculty adviser and are individualized to meet student needs and interests. At the discretion of the Director of Business Education and Office Technologies, six graduate credits earned *prior* to matriculation may be accepted upon entry to the program.

Master's Degrees in Counseling & Human Relations Programs

I. Program Objectives: The program leading to the Master of Education degree in School Counseling trains students to function effectively as counselors in public and private schools. The program leading to the Master of Science degree in Counseling trains students to function in a variety of community mental health settings (e.g., clinics, hospitals, prisons, colleges, rehabilitation, out reach, after care, etc.). The Master of Science degree in Human Resource Development trains students to function effectively as human resource specialists in a variety of industrial settings (e.g., training, organizational development, consultation, employee assistance programs, career development, etc.). In each degree program the ability to work with people in a variety of settings and roles will be cultivated. During the course of training students will engage in a period of self-examination in order to become keenly aware of their own needs and personality structure and how they relate these features to the helping professions. Through systematic completion of the curriculum, students

will develop a competency base from which to perform effectively in their area of specialization.

II. General Description of the Program: Masters degree candidates may complete their degree requirements in three semesters of full-time study, although a longer period of time can be taken by students enrolling on a part-time basis. School counseling students planning to enroll full-time during the Fall semester must complete the Counseling Laboratory (ED 737) plus two courses during the previous Spring semester to be eligible to enroll in Clinical Practice I (ED 738) in the Fall.

A minimum program involves 36 semester hours of work, depending on undergraduate preparation. All special non-degree students wishing to apply for degree status are encouraged to interview with a member of the Counseling & Human Relations faculty prior to acceptance. Degree candidates are advised to consult with members of the faculty at all stages of their program.

III. Program of Study: Candidates for the Master's degrees in Counseling & Human Relations may elect either School Counseling, Counseling, or Human Resources Development, for their program of study. The following is list of courses denoted by speciality:

School Counseling

Required Courses: 27 Sem. Hrs.

Education 710 — Introduction to School Counseling 3
Education 713 — Counseling: Theory & Practice 3
Education 714 — Psychology of Vocational Development 3
Education 715 — Methods of Research: Statistics 3
Education 717 — Psychological Tests in Counseling 3
Education 719 — Child & Adolescent Development 3
Education 737 — Counseling Laboratory 3
Education 738 — Clinical Practice I 3
Education 739 — Clinical Practice II 3

Counseling

Required Courses: 21 Sem. Hrs.

Education 713 — Counseling: Theory & Practice 3
Education 714 — Psychology of Vocational Development 3
Education 715 — Methods of Research: Statistics 3
Education 716 — Psychopathology 3
Education 717 — Psychological Tests in Counseling 3
Education 738 — Clinical Practice I 3
Education 739 — Clinical Practice II 3

Human Resources Development

Required Courses: 21 Sem. Hrs.

Education 713 — Counseling: Theory & Practice 3
Education 715 — Methods of Research: Statistics 3
Education 724 — Human Resources in Organizations 3
Education 735 — Group Counseling: Theory & Process 3
Education 736 — Consultation 3
Education 738 — Clinical Practice I 3
Education 739 — Clinical Practice II 3

Electives: 9-15 Sem. Hrs.

Education 710 — Introduction to School Counseling 3
Education 716 — Psychopathology 3
Education 719 — Child & Adolescent Development 3
Education 723 — Adult Development 3
Education 724 — Human Resources in Organizations 3
Education 725 — Technology & Human Relations 3
Education 726 — Family Counseling 3
Education 727 — Drug & Alcohol Abuse 3
Education 728 — Rehabilitation Counseling 3
Education 729 — Sexual Behavior: Function & Dysfunction 3
Education 730 — Current Issues in Counseling .. 3
Education 733 — Cross-Cultural Counseling 3
Education 734 — Seminar in Counseling Psychology 3
Education 735 — Group Counseling: Theory & Process 3
Education 736 — Consultation 3
Education 746 — Advanced Psychological Testing 3
Education 750 — Independent Study: Counseling 3
Education 753 — Independent Study: Counseling 3

(Course work in related disciplines may be elected subject to approval of faculty advisor.)

IV. Clinical Practice Experience:

Competence in counseling skills is acquired during the Counseling Laboratory, the Clinical Practice classes, ED 737, ED 738 and ED 739 and field experience. It is during this time that a student, fully admitted into the program, demonstrates ability to translate training into professional judgments and techniques. Continuing students are required to apply formally for Clinical Practice and to consult with their Faculty Advisor regarding their field placement.

All part-time students must successfully complete twelve semester hours prior to the Clinical Practice experience.

Students in School Counseling must successfully complete a minimum of nine semester hours, which may include ED 737 — Counseling Laboratory, ED 710 — Introduction to School Counseling, ED 714 — Psychology of Vocational Development, and ED 717 — Psychological Tests in Counseling students in Counseling and Human Resource Development are encouraged to complete ED737 — Counseling Laboratory prior to the Clinical Practice experience.

During the Clinical Practice aspect of training the provision of earning a C grade that may be offset by an A grade does not apply. Clinical Practice must be completed with a grade of no less than B. Unsatisfactory performance during Clinical Practice results in the following options for the student:

1) Appeal to the Committee on Admission and Retention of the Department of Education for the right to continue into Clinical Practice II.

2) Repeat of Clinical Practice I.

Prior to eligibility for Clinical Practice a cumulative average of B or above is required. Any grade less than B must be offset by an A grade, and all incomplete grades must be successfully completed prior to eligibility for Clinical Practice.

Certificate of Advance Graduate Study in Counseling & Human Relations

This certificate is an advanced program for practitioners of counseling and human resource development functioning in clinics, agencies, industry, schools or colleges. Open to persons with Masters' Degrees in human relations fields with relevant experience.

Goal The CAGS in School Counseling, Counseling or Human Resource Development programs is construed as an individually oriented program designed to meet the needs of its students for advanced field work in counseling. It will provide 30 semester hours beyond the Masters' Degree and will be flexible enough to provide for an individual student to become a specialist in a chosen direction, that of agency coordinator, coun-

selor, consultant, school psychologist, pupil personnel director, college and student personnel director, training development, career development, employee assistance programs, supervisor of counseling, etc.

Description of the Program:
Students, with an assigned advisor, will plan carefully and maintain a program of study. Contracts and Plans will be reviewed regularly by the student and advisor.

In accumulating the 30 semester hours the student may be engaged in either full-time or part-time study. Full-time study is designed to result in completion of the program in one academic year.

The three major components of the CAGS Program in Counseling are as follows:

1) Advanced Coursework
2) Advanced Clinical Practice
3) Supervision Techniques

As all students are expected to be practitioners, no additional credit is given for amount of previous clinical experience. Six semester hours of Advanced Clinical and six semester hours of Clinical Supervision are normally required. Three hours of Advanced Psychological Testing will normally be included in all programs. The remaining fifteen hours of semester credits will be flexible depending upon student needs. The program plan agreed to between student and advisor will reflect these. Six semester hours may be, designated to be transferred into the program from other institutions of higher learning at the discretion and consultation of student and advisor.

Advanced Clincal Practice:
Advanced Clinical Practice is an academic year experience, comprised of Clinical Practice III and Clinical Practice IV in sequence, with three components. First is the supervised field experience at an approved placement. The second is scheduled meetings with a faculty member and other graduate students in Clinical Practice III-IV. The third, a comprehensive project will be undertaken and completed by each student, demonstrating excellence in a selected area of endeavor within the field of counseling. Such projects involve presentation before students and faculty, field study and research, and written in accordance with a contract as part of the Clinical Practice component of the CAGS program.

Clinical Supervision: Every student will undertake a program to develop his/her supervision skills. As with Advanced Clinical Practice, this course will be a full academic year experience, normally undertaken concurrently with Clinical Practice III-IV. Students will meet regularly with a faculty member to build supervision skills, explore theories and techniques, and develop supervision strategies. Supervision students will also be assigned to study under faculty members responsible for training Master's level Counseling and Human Relations students.

Requirements for CAGS in Counselor Education: The completion of a minimum of thirty semester hours of graduate work is required. Candidates must complete all courses with grades of B or better. The Faculty reserves the right to withdraw a student from the program if the student's possibility of success is doubtful. Deficiencies in such areas as clincial and academic performance enter into the judgement.

Candidates for the CAGS can generally be expected to complete their requirements in two semesters of full-time study, although a longer period of time can be taken on a part-time basis. However, a maximum of five years is permitted for the completion of a part-time or interrupted program.

Certificate of Advanced Graduate Study Courses

(30 Semester Hours)

Required Courses: 18 Sem. Hrs.

Education 740 — Clinical Practice III 3
Education 743 — Clincial Practice IV 6
Education 744 — Supervision Techniques I..... 3
Education 745 — Supervision Techniques II..... 3
Education 746 — Advanced Psychological Testing..... 3

Electives: 12 Sem. Hrs.

Education 710 — Introduction to School Counseling 3
Education 713 — Counseling: Theory and Practice 3
Education 714 — Psychology of Vocational Development 3
Education 715 — Methods of Research: Statistics..... 3
Education 716 — Psychopathology 3
Education 717 — Psychological Tests in Counseling 3
Education 719 — Child & Adolescent Development 3
Education 723 — Adult Development..... 3
Education 724 — Human Resources in Organizations..... 3
Education 725 — Technology & Human Relations..... 3
Education 726 — Family Counseling 3
Education 727 — Drugs and Alcohol Abuse..... 3
Education 728 — Rehabilitation Counseling 3
Education 729 — Sexual Behavior: Function and Dysfunction..... 3
Education 730 — Current Issues in Counseling 3
Education 733 — Cross-Cultural Counseling 3
Education 734 — Seminar in Counseling Psychology 3
Education 735 — Group Counseling: Theory & Process 3
Education 736 — Consultation 3
Education 750 — Independent Study - Counseling 3
Education 753 — Independent Study - Counseling 3

(Course work in related disciplines may be elected subject to approval of faculty advisor.)

Admission Requirements:

1) A grade point average of 3.3 at the Masters' level.
2) Masters' Degree from an accredited institution in Counseling, Social Work, School of Management, or Mental Health area, with a year of supervised field experience as part of that program. (Without supervised field experience, student may be required to enroll first in Clinical Practice I-II.)

Ed.M. in Foundations of Education

I. Objectives of the Program: The program leading to a Master of Education degree in Foundations of Education provides teachers and trainers in all sectors of society with insights, skills and field experiences necessary to improve their knowledge and competencies in all aspects of their professional performance. Persons who are concerned with human development and/or the generation of educational/training programs will likewise find this program a useful preparation. It is also appropriate for those who wish to extend their knowledge of the historical, philosophical and sociocultural foundations of education so as to assess present and future educational configurations, as well as for those who seek a solid foundation for study at the certificate or doctoral level.

II. Description of the Program:
Candidates for the Ed.M. in Foundations of Education can complete their degree requirements in one calendar year of full-time study or on a part-time basis. A minimum program is 30 semester hours. Degree candidates initiating studies must meet with Professor Joseph M. McCarthy, Program Director, to plan and record a suitable program of studies, and must consult with him at all stages of their progress.

III. Program of Studies:

Required Courses: 12 Sem. Hrs.

Education 790 — Research and Evaluation Methods
OR
Education 640 — Reading & Research
Education 794 — Social Philosophy of American Education
Education 796 — Improving Instruction
Education 800 — Curriculum Development and Evaluation

Electives: 15 Sem. Hrs.

Electives to be taken will be chosen by the individual student in consultation with the Program Director according to the student's particular needs and interests. Students must choose one of the following option areas in which to group their electives:

Option A — Master Teacher Program. Intended for elementary and secondary school teachers intent upon improving their skills, this option can combine general courses in instructional improvement with specialized courses in early childhood education, elementary education, middle school education, secondary education, business education, special education, or reading.

Option B — Training/Adult Education. This option provides a concentration appropriate for those interested in the design and implementation of programs in community education, post-graduate programs, and training/instructional programs in public agencies, business and industry.

Option C — Educational Management. Provides an introduction to administrative skills for those who have need of them without intending a career in educational administration. Does not lead to state certification in school administration.

Option D — General Purposes. Intended for persons who wish to develop insight into American education through study of the history, philosophy and sociology of education and/or seek a foundation for advanced graduate study in foundations of education.

Professional Improvement Field Experience (644) 3 Sem. Hrs.

Students should plan to schedule the field experience in the latter stage of their program. The individual is responsible for making arrangements for locale and circumstances in consultation with the Program Director.

Ed.M. — Consulting Teacher of Reading

I. Objectives of the Program: The Master of Education degree in Reading is designed to provide the candidate with the necessary professional training and academic preparation to qualify for state certification as a Consulting Teacher of Reading for all levels. The prospective Consulting Teacher of Reading becomes familiar with numerous reading tests, other evaluative instruments and remedial teaching techniques. Students learn to make diagnostic and prognostic statements about disabled readers. The students become aware of the nature and causes of reading disabilities. They assess reading achievements and identify strengths and weaknesses in pupils' reading abilities using standardized and informal reading tests. Based on test results and prescriptive techniques each student plans and participates in a continuous evaluation including the proper selection of materials and techniques to remediate specific deficiencies in word analysis skills, reading comprehension, study skills, rate of comprehension and reading in the content areas.

II. General Description of the Program:

The program involves 36 semester hours of work. Degree Candidates are advised to consult with Professor Glen A. Lewandowski, Program Director, at all stages of their program.

III. Program Prerequisites:

1. A candidate must possess a Massachusetts classroom teaching certificate or its equivalent.

2. A candidate must provide documentation of at least one full academic year of employment in the role covered by the certificate in item (1) above.

IV. Program of Studies:

Required Courses: 24 Sem. Hrs.

Education 815 — Competency in Teaching Reading Skills
Education 816 — Introduction to the Psychology of Reading Disabilities
Education 817 — Diagnosis of Reading Disabilities
Education 823 — Correction of Reading Disabilities
Education 825 — Administration and Supervision of Reading Programs
Education 826 — Seminar in Reading
Education 830 — Practicum in Reading I
Education 831 — Practicum in Reading II

Restricted Electives: 6 Sem. Hrs.

Education 760 — Open Concept Education
Education 763 — Issues in Early Childhood Education
Education 840 — Attitudes and Issues in Special Education
Education 844 — Speech and Language Development
Education 845 — Assessment of Specific Learning Needs
Education 718 — Individual Intelligence Testing
English 379 — Children's Literature
Psychology 226 — Theories of Personality
Psychology 356 — Behavior Modification
Psychology 358 — Psychology of Rehabilitation
Psychology 433 — Psychological Disorders of Childhood and Adolescence

Unrestricted Electives: 6 Sem. Hrs.

Candidates are encouraged to enroll in academic courses related to their teaching interests.

V. Practicums in Reading:

Completion of the practicums with a grade of B or better is the terminal activity in the program. The practicums require the student to apply the knowledge, evaluative techniques and teaching skills he has been taught. The practicums in reading involve 150 clock hours of contact time between the candidate and a group of remedial readers and are normally taken for one full academic year for three hours of credit each semester. The approximate number of contact hours per semester is 75.

Master of Education in Special Education

Objectives: The programs are designed to enhance and develop competencies through a pragmatic orientation. Students gain skills in assessing and implementing appropriate educational programs for the special needs child. In addition, candidates studying the generic role gain skills in consulting and in-service education.

Description: Candidates for the Master of Education in Special Education can expect to complete their degree requirements in 3½ semesters of full-time study. However, the program may be taken over a longer period of time on a part-time basis. A minimum program involves 36 semester hours.

Programs of Study: Suffolk University offers four programs in Special Education, all certified under the new Massachusetts Certification Regulations. The four areas of certification include:

I. Teacher of Children with Moderate Special Needs (N-9)
II. Teacher of Children with Moderate Special Needs (5-12)
III. Generic Consulting Teacher (All levels)
IV. Teacher of Severe Special Needs (N-12)

Students have an option of three procedures in each area of certification; the three procedures include:

A. Master of Education Degree Program
B. Licensure Program — Minimum Coursework Procedure
C. Licensure Program — Competency Assessment Procedure

The Licensure Program-Competency Assessment Procedure is a new state certified option, first offered at Suffolk University. While the quality of competence is kept very high during the documentation, the completion of the requirements is kept

at a minimum in cost and time. The Licensure Program — Competency Assessment Procedure enables the student to complete all the certification requirements in one semester as a full-time student (15 credits).

PROGRAMS I & II: MASTER OF EDUCATION DEGREE TEACHER OF CHILDREN WITH MODERATE SPECIAL NEEDS (Level N-9) and (Level 5-12)

Requirements:

1. Massachusetts classroom teaching certificate
2. 36 semester hours
3. Completion of a research project or its equivalent (to follow ED 853 — Special Education Research Project)

Required Courses:	Credits
ED526 — Attitudes & Issues in Special Education	3
ED843 — Cognitive & Emotional Problems of the Special Needs Child	3
ED534 — Speech & Language Development	3
ED845 — Assessment of Specific Learning Needs	3
ED846 — Individualizing Educational Plans	3
ED847 — Career & Vocational Education of the Special Needs Child	3
ED848 — Group Process	3
ED529 — Behavior & Classroom Management	3
ED853 — Special Education Research Project	3
One of the Following:	
ED854 — Practicum: Moderate (N-9)	6
ED855 — Internship: Moderate (N-9)	6
ED857 — Practicum: Moderate (5-12)	6
ED858 — Internship: Moderate (5-12)	6
One of the Following:	
ED856 — Seminar: Moderate (N-9)	3
ED859 — Seminar: Moderate (5-12)	3

PROGRAM III: MASTER OF EDUCATION DEGREE GENERIC CONSULTING TEACHER (All levels)

Requirements:

1. Massachusetts classroom teaching certificate
2. Two years of employment in the role of the certificate
3. 36 semester hours
4. Completion of a research project or its equivalent (to follow ED 853, Special Education Research Project)

Required Courses:	Credits
ED526 — Attitudes & Issues in Special Education	3
ED843 — Cognitive & Emotional Problems of the Special Needs Child	3
ED534 — Speech & Language Development	3
ED845 — Assessment of Specific Learning Needs	3
ED846 — Individualizing Educational Plans	3
ED847 — Career & Vocational Education of the Special Needs Child	3
ED529 — Behavior & Classroom Management	3
ED850 — The Generic Consulting Teacher	3
ED853 — Special Education Research Project	3
One of the Following:	
ED860 — Practicum: GCT	6
ED863 — Internship: GCT	6
The Seminar is taken with the Practicum or Internship:	
ED864 — Seminar: GCT	3

Program IV. Teacher of Children with Severe Special Needs (Level N-12)

Requirements:

1. 36 semester hours
2. Completion of a research project or its equivalent (To follow ED 853 — Special Education Research Project)

Required Courses:	Credits
ED526 — Attitudes and Issues in Special Education	3
ED529 — Behavior and Classroom Management	3
ED534 — Speech and Language Development	3
ED874 — Educational Principles and Programs for the Severly Handi-capped	3
ED843 — Cognitive and Emotional Problems of the Special Needs Child	3
ED845 — Assessment of Specific Learning Needs	3
ED846 — Individualizing Educational Plans for the Special Needs Child	3
ED848 — Group Process, Counseling, and Communication Skills	3
ED853 — Special Education Research Project	3
One of the Following:	
ED865 — Practicum for the Teacher of Severe Special Needs Children	3
ED866 — Internship in Special Education (Severe)	3
The Seminar is taken with the Practicum or Internship:	
ED867 — Seminar: Topics in Special Education (Severe)	3

Graduate Course Descriptions

Education 500 — Practicum (Secondary Student Teaching). The practicum experience must be full-time for one semester and include at least 300 clock hours in a secondary public school setting. The course may be taken by undergraduate senior and graduate students. *1 term — 9 semester hours. Normally offered yearly.*

Education 510 — Office Administration. Organization and management of office systems, including work measurement, work simplification, office standards, layout, design, and the supervision of office personnel. *1 term — 3 semester hours. Normally offered alternate years.*

Education 513 — Office Simulation and Cooperative Work Experience Programs: Implementation and Design. Comparison of office simulation programs. Laboratory experience. Remodeling and designing new facilities for implementation of an office simulation. Development of cooperative work experience programs. *1 term — 3 semester hours. Normally offered alternate years.*

Education 515 — Office Education Internship for Business Educators. Designed for business educators in all options who need to update or obtain practical full-time business experience. The field site must be approved by the Internship Supervisor. Required of all undergraduate and CAGS business education students. *1 term — 3 to 9 semester hours. Normally offered yearly.*

Education 516 — History and Philosophy of Career and Occupational Education. An examination of current research, theories, and principles of career and occupational education. *1 term — 3 semester hours. Normally offered alternate years.*

Education 517 — Business Communications. Specialized writing skills required in the business environment. Business writing styles and overcoming barriers to communications. Composition of resumes, memoranda, business letters, and reports. *1 term — 3 semester hours. Normally offered alternate years.*

Education 518 — Microcomputers for Business Education. Introductory course in the application of microcomputers to business education and their integration in the business curriculum. Analysis of business-related software. Hands-on experience and development of programming capability on the Apple II. *1 term — 3 semester hours. Normally offered yearly.*

Education 519 — Records and Information Management. Examines the growth of computer assisted retrieval (CAR) of records and information, the use of micrographics for both active records systems and information storage systems, and the blending of electronic data processing with word processing for records processing and control. *1 term — 3 semester hours. Normally offered alternate years.*

Education 520 — Business Education Skill Competencies. Documentation and/or demonstration of specific competencies in the skills areas of business and office education. Skills assessment. Students work independently to meet competencies. *1 term — 3 to 6 semester hours. Normally offered alternate years.*

Education 521 — Individualized Instruction for Business Education. Multi-media resources for individualized and independent instruction. Preparation of audio-tutorial projects, learning contracts, and LAPS. *1 term — 3 semester hours. Normally offered alternate years.*

Education 522 — Continuing Education for Business. Philosophy of adult education. The role of community agencies, industry, and federal and state agencies in continuing education. Introduction to needs analysis. Design, implementation, and marketing of adult business education programs. *1 term — 3 semester hours. Normally offered alternate years.*

Education 523 — Teaching Methodology and Instructional Materials for Adult Business Education. Methods of teaching business subjects to the adult learner. Special characteristics of the adult learner and appropriate instructional materials and techniques. *1 term — 3 semester hours. Normally offered alternate years.*

Education 524 — Conference and Workshop Organization and Public Relations. Introduction to organizing conferences, workshops, seminars, and training programs for business and industry. Promoting and marketing educational programs. *1 term — 3 semester hours. Normally offered alternate years.*

Education 526 — Attitudes and Issues in Special Education. Focus on attitudinal and environmental barriers, and major legislation affecting people with disabilities. *1 term — 3 semester hours. Normally offered yearly.*

Education 529 — Behavior and Classroom Management. Basic principles of behavior and management are adapted to the classroom situation. *1 term — 3 semester hours. Normally offered yearly.*

Education 534 — Speech and Language Development. The acquisition and normal development of speech and language is explored with a particular emphasis upon language disorders. *1 term — 3 semester hours. Normally offered yearly.*

Education 603 — Leadership. Trait-factor, group and situational theories of leadership are explored in the context of team-building, participatory decision-making, staff development, resource allocation and future planning. *1 term — 3 semester hours. Normally offered alternate years.*

Education 604 — Administrative Communication. Culture-based study of the needs, assumptions and communication behaviors of various educational constituencies provides the basis for development of effective communication with professional colleagues and improvement of school-community relations. *1 term — 3 semester hours. Normally offered alternate years.*

Education 605 — Planning and Evaluation. Examines management and evaluation by objectives, group process and mathematical models of decision-making, use of forecasting and strategy information, and cost-benefit analysis techniques, with emphasis on human values, equitable distribution of resources, and accountability. *1 term — 3 semester hours. Normally offered every third year.*

Education 606 — American Middle Schooling: Processes and Problems. Examines the rationale, role, structure and function of middle, intermediate and junior high schools, with attention to the sociology of student populations, curricular and instructional trends, administrative problems and future planning. *1 term — 3 semester hours. Normally offered every third year.*

Education 607 — American Secondary Schooling: Processes and Problems. Examines the rationale, role, structure and function of high schools, with attention to the sociology of student populations, curricular and instructional trends, administrative problems and future planning. *1 term — 3 semester hours. Normally offered every third year.*

Education 608 — Lifelong Learning. Examines the rationale, role, structure and function of lifelong learning, with attention to interagency collaboration, citizen participation, use of public facilities and community resources, curricular and instructional trends, and future planning. *1 term — 3 semester hours. Normally offered every third year.*

Education 610 — Discipline in Schools. The course explores the role of administrators and teachers in promoting effective positive discipline to promote learning. Philosophical and legal considerations provide the basis for an eclectic approach to practical techniques. *1 term — 3 semester hours. Normally offered every third year.*

Education 613 — Legal Aspects of Educational Administration. Examines legal problems facing administrators, including tort liability, rights of teachers and students, contracts, tenure, confidentiality of records, and legal aspects of expenditure, hiring and discrimination. *1 term — 3 semester hours. Normally offered yearly.*

Education 614 — Instructional Supervision. A field-based introduction to the theory and technique of promoting constructive change in teaching through use of humanistic supervision methods emphasizing supportive communication and use of recent research in teaching and learning. *1 term — 3 semester hours. Normally offered yearly.*

Education 615 — The Principalship. Considers the role and function of the principal, stressing personnel management, staff development and supervision, organizational development, school-community relations, and managerial accountability. Field-based study of the principalship at the appropriate level is required. *1 term — 3 semester hours. Normally offered yearly.*

Education 616 — Advanced Supervision. Explores cross-cultural dimensions of supervision, special problems and techniques in employee motivation, strategies for dealing with problem personnel, modes of coping with job actions/strikes, and other difficult supervision situations. *1 term — 3 semester hours. Normally offered every third year.*

Education 617 — Personnel Management. Problems of recruiting, selecting, developing and evaluating personnel are treated, with emphasis on supportive supervision and effective communication. *1 term — 3 semester hours. Normally offered alternate years.*

Education 618 — Collective Bargaining and Negotiation. This course will deal in depth with labor management contract negotiations. Issues commonly arising in negotiation will be examined along with strategies and tactics employed in the bargaining process. *1 term — 3 semester hours. Normally offered alternate years.*

Education 619 — Proposal Writing and Grant Development. Surveys public and private sources of contracted funding for research and development and provides experience in project planning and proposal writing. Management of contractual funds is covered. *1 term — 3 semester hours. Normally offered alternate years.*

Education 623 — The Manager and the Organization. Group activities and simulations directed at analysis and solution of case studies of common problems confronting managers. *1 term — 3 semester hours. Normally offered every third year.*

Education 625 — Organization and Administration of Higher Education. The interplay of organizational characteristics, structures and modes of financing will be explored in this course as a means of elucidating the application of administrative theories in higher education. *1 term — 3 semester hours. Normally offered alternate years.*

Education 626 — Legal Aspects of Higher Education. This course deals with the legal problems facing institutions of higher education, including (but not limited to) tort liability, contracts, tenure, student rights, campus security, confidentiality of records, employee relations and discrimination. *1 term — 3 semester hours. Normally offered yearly.*

Education 627 — Junior/Community College: Processes and Problems. Examines the rationale, role, structure and function of public and private two-year institutions, with attention to the sociology of student populations, curricular and instructional trends, administrative problems and future planning. *1 term — 3 semester hours. Normally offered every third year.*

Education 628 — Crucial Issues in Higher Education. Examines major current issues of social policy and institutional management in higher education as well as proposals for their resolution. *1 term — 3 semester hours. Normally offered every third year.*

Education 629 — Higher Education Finance. Explores public, private and institutional sources of higher education finance, as well as techniques and problems of institutional budgeting. *1 term — 3 semester hours. Normally offered every third year.*

Education 630 — Seminar in Higher Education. An advanced examination of processes and problems in higher education, with the subject matter concentrating upon areas of particular interest to the seminar group. *1 term — 3 semester hours. Normally offered every third year.*

Education 633 — Women in Higher Education. Examines the changing role of women faculty, administrators and students in colleges and universities, with historical and current material on socialization, career and educational patterns, and legal issues. *1 term — 3 semester hours. Normally offered alternate years.*

Education 634 — Student Development/ Services in Higher Education. This course will explore theories, rationales, and methods of student development in higher education, as well as the organization and administration of student personnel services. *1 term — 3 semester hours. Normally offered alternate years.*

Education 635 — Field Project: Organizational Analysis. Intensive study of the structure and functioning of an institution or organization, with special reference to finance, leadership, communication and diagnosis of organizational problems. *1 term — 3 semester hours. Normally offered yearly.*

Education 636 — Field Project: Organizational Development. Intensive study of methods and models of organizational change resulting in a detailed prescription for organizational development activities in a specific institution or organization. *1 term — 3 semester hours. Normally offered yearly.*

Education 637 — Field Project: Program Planning and Development. Intensive exercise in the production of a program model, including rationale, design, staffing plan, funding and budget, and implementation schedule. *1 term — 3 semester hours. Normally offered yearly.*

Education 638 — Field Project: Higher Education. Advanced individual study of a problem in higher education, including provision for application in a specific institution or higher education agency. *1 term — 3 semester hours. Normally offered yearly.*

Education 639 — Writing for Professional Publication. Individualized study of research/ development dissemination media and preparation of a publishable report or article. *1 term — 3 semester hours. Normally offered yearly.*

Education 640 — Readings and Research. Advanced individual directed study of a topic of particular interest in administration. *1 term — 3 semester hours. Normally offered yearly.*

Education 643 — Competency Assessment. Development/demonstration of mastery of specific competencies mandated for state certification in school administration. *1 term — 6 semester hours. Normally offered yearly.*

Education 644 — Professional Improvement Field Experience. Intensive study of alternative ways of carrying out educational roles, including observations and thorough analysis of a given organization, institution or program. *1 term — 3 semester hours. Normally offered yearly.*

Education 645 — Practicum in Administration. Application of administrative skills in an appropriate field placement under guidance of a cooperating administrator and a university supervisor. Open only to degree candidates in educational administration. Prerequisite: Education 644. *1 term — 6 semester hours. Normally offered yearly.*

Education 650 — Curriculum Construction and Program Development in Business Education. Survey of modern trends in business education. Content and curricular considerations. Development of relevant curricula for various levels and various types of schools. *1 term — 3 semester hours. Normally offered yearly.*

Education 653 — Evaluation and Analysis of Trends in Business and Office Education. Analysis of curriculum patterns and recent trends. An exploration of various interpretations and theories forming the foundation of contemporary trends in business and office education. Study of federal legislation, present and future programs. *1 term — 3 semester hours. Normally offered alternate years.*

Education 654 — Introduction to Research Methods in Business and Office Education. Planning, and conducting research and evaluation studies. Examination of current research in business and office education. Each student develops a limited research proposal. *1 term — 3 semester hours. Normally offered yearly.*

Education 655 — Research Seminar in Business and Office Education. Carrying out the research study project approved in 654 with attendance and participation at weekly seminar meetings. *Prerequisite: Education 654. 1 term — 3 semester hours. Normally offered yearly.*

Education 656 — Research and Improvement in Basic Business Instruction. Study of objectives, content methods, teaching aids, and evaluation procedures for general business, business law, consumer education, economics, and economic geography. Demonstration of teaching techniques. Analysis of research related to instructional strategies. *1 term — 3 semester hours. Normally offered alternate years.*

Education 657 — Research and Improvement in Shorthand-Transcription Instruction. Demonstration of effective methods of teaching shorthand and transcription. Psychology of skill building. Testing and grading. Review of significant research. Motivational techniques and effective use of media for individualized and group instruction. *1 term — 3 semester hours. Normally offered yearly.*

Education 658 — Research and Improvement in Keyboarding Instruction. Study of the psychological principles pertaining to learning keyboarding. Evaluation and measurement. Review of significant research. Motivational techniques, demonstrations, and effective use of media for individualized and group instruction. *1 term — 3 semester hours. Normally offered yearly.*

Education 659 — Research and Improvement in Bookkeeping, Accounting, Data Processing, and Business Mathematics Instruction. Study of objectives, methods, teaching aids, and content in bookkeeping, accounting, data processing and business mathematics. Analysis and evaluation of current research. Motivational techniques, demonstrations, and effective use of media for individualized and group instruction. *1 term — 3 semester hours. Normally offered yearly.*

Education 660 — Administration and Supervision of Business Education Programs. Administration and supervision of business education department and programs. Staffing, public relations, advisory committees, inventories, equipment selection, and supervisory problems. Case studies and field experience. Sources of funding and grant preparation. *1 term — 3 semester hours. Normally offered alternate years.*

Education 663 — Business Education for Teachers of Students with Special Needs. This course will assist business education teachers in examining their attitudes toward special needs students and prepare them to meet the challenge of providing these students with appropriate vocational programs. Development of instructional materials. *1 term — 3 semester hours. Normally offered alternate years.*

Education 667 — Office Administration and Records Management. Designed for individuals preparing for professional office administration. Topics include office functions and environment, management control systems, and principles of office organization. Efficient methods of processing, controlling, and disposing of organizational records. *1 term — 3 semester hours. Normally offered alternate years.*

Education 668 — Introduction to Office Technologies. Developments in electronic technology and its impact on management and employees. Survey of technological advances in word processing, micrographics, reprographics, data processing, and telecommunications. Impact of technology on interpersonal relationships and communications. *1 term — 3 semester hours. Normally offered alternate years.*

Education 669 — Personnel Administration for Business. The study of the personnel function in organizations, including manpower needs, staffing and development, organization and individual appraisal, employee compensation and benefits, safety and health, approaches to employee problems and labor relations. *1 term — 3 semester hours. Normally offered alternate years.*

Education 670 — Data Processing: Principles and Concepts. An introduction to the principles and concepts of data processing systems, including manual, mechanical, punched-card, and electronic systems. Appropriate terminology and trends in computer hardware are explored from an office management standpoint. *1 term — 3 semester hours. Normally offered alternate years.*

Education 673 — Word and Information Processing: Principles and Concepts. Introduction to word processing and its role in modern information systems in both the small and large business firm. The organization of word/information processing systems, preparation of personnel, and evaluation of equipment. Case studies, guest speakers, and field trips with hands-on equipment experience. *1 term — 3 semester hours. Normally offered alternate years.*

Education 700 — Business Education: Independent Projects. Advanced individual, intensive study of a problem in business education. Requires written approval by the Director of Business Education. *1 term — 1-3 semester hours. Normally offered yearly.*

Education 710 — Introduction to School Counseling. The foundation course for those enrolled in the school counseling program. The philosophical and theoretical foundations for school counseling are investigated, as well as the roles and functions of the school counselor. *1 term — 3 semester hours. Normally offered yearly.*

Education 713 — Counseling: Theory and Practice. Analysis of selected counseling theories representative of the field of counseling psychology. Theories will be selected from the following areas: Psychoanalytic Theory, Psychosocial Theory, Rational Theory, Learning Theory, Phenomenological Theory and Existential Theory. *1 term — 3 semester hours. Normally offered yearly.*

Education 714 — Psychology of Vocational Development. A survey of the various theories of vocational choice and development, and strategies for the implementation of vocational counseling in the school, agency, or business/industrial setting. Historical and current concepts of work and vocational concerns of women and minorities are also investigated. *1 term — 3 semester hours. Normally offered yearly.*

Education 715 — Methods of Research: Statistics. Principles and methods associated with research. Applications of descriptive statistics, inferential statistics and research design forms to practical situations. Introduction to the computer for data analysis. *1 term — 3 semester hours. Normally offered yearly.*

Education 716 — Psychopathology. The study of the nature of psychopathology; central concepts and processes. Psychogenesis, psychodynamics, role of anxiety and clinical assessment using the DSM-III. *Prerequisite: Education 713. 1 term — 3 semester hours. Normally offered yearly.*

Education 717 — Psychological Tests in Counseling. Evaluating, administering, scoring, interpreting, and reporting results of standardized tests of personality, aptitude and achievement. Self-study, development and assessment of testing programs, appropriate use of computers, and critical issues in testing. *1 term — 3 semester hours. Normally offered yearly.*

Education 719 — Child-Adolescent Development. Examination of developmental issues, societal expectations and psychological determinants of children from birth through adolescence. Special emphasis is placed on the integrative roles of parent and counselor. *1 term — 3 semester hours. Normally offered alternate years.*

Education 723 — Adult Development. The study of research and theory relating to the psychological development of the adult through midlife and the later years. Issues such as family relations, career change, retirement, and dying will be highlighted. *Prerequisite: Education 713. 1 term — 3 semester hours. Normally offered yearly.*

Education 724 — Human Resources in Organizations. A study of communication styles and patterns within organizations and potential roles for human resource specialists. *1 term — 3 semester hours. Normally offered yearly.*

Education 725 — Technology and Human Relations. Applications and impact of technology on individual/human resource development and social relationships. Experience with communications equipment and computers: performing library, college, and career searches, testing, interest explorations, personal helping, training, file management, scheduling, word processing, research and report preparation. *No background necessary. 1 term — 3 semester hours. Normally offered in alternate years.*

Education 726 — Family Counseling. An overview of the history and an intensive study of selected models of family counseling. Special emphasis will be placed on the acquisition of strategies proven to be effective for counselors in helping families cope with the developmental stresses. *1 term — 3 semester hours. Normally offered yearly.*

Education 727 — Drug and Alcohol Abuse. A study of the origin, causes and ramifications of drug and alcohol abuse. Various stages and manifestations will be considered and current treatment modalities will be explored. *1 term — 3 semester hours. Normally offered yearly.*

Education 728 — Rehabilitation Counseling. Examination of the psychological aspects of illness and disability. Discussions on interpersonal attitudes toward the physically or the socially handicapped, chronically ill, the aged or individuals with special needs, and treatment concepts and models offered to these respective populations. *1 term — 3 semester hours. Normally offered alternate years.*

Education 729 — Sexual Behavior: Function and Dysfunction. The anatomy, physiology and psychology of human sexual functioning are reviewed. Sexual aberrations are explored and the etiology, dynamics and treatment of the various dysfunctions are studied. *Prerequisite: Education 713. 1 term — 3 semester hours. Normally offered alternate years.*

Education 730 — Current Issues in Counseling. An examination of the major issues confronting counselors in schools and community settings. Licensure, counselor training and professional and inter-agency relationships, as well as newly emerging issues will be studied in depth. *1 term — 3 semester hours. Normally offered yearly.*

Education 733 — Cross-Cultural Counseling. A survey of problems and issues confronting minority populations. Where traditional counseling modalities provide only limited understanding viable alternative counseling approaches will be explored. *1 term — 3 semester hours. Normally offered alternate years.*

Education 734 — Seminar in Counseling Psychology. The study of selected advanced topics in counseling psychology determined by the class. *Prerequisite: Education 713. 1 term — 3 semester hours. Normally offered alternate years.*

Education 735 — Group Counseling: Theory and Process. A study of the practical and theoretical aspects of counseling small groups. There will be provision for a laboratory experience in which students participate in an ongoing group and study the dynamics of group development as they actually experience them. *1 term — 3 semester hours. Normally offered yearly.*

Education 736 — Consultation. Study of the counselor as consultant. Particular emphasis is placed on the skills and procedures involved in consultation. The issues faced by the counselor/consultant are also investigated. *Prerequisite: Education 710 or Education 713. 1 term — 3 semester hours. Normally offered yearly.*

Education 737 — Counseling Laboratory. An introduction to the fundamental techniques and methods of counseling, self-examination, and field visits in relation to the role of counselor. The course will involve skill building through role playing, video and audio taping. *1 term — 3 semester hours. Normally offered yearly.*

Education 738 — Clinical Practice I. Application of skills in an assigned field placement (school, agency or industry). Students will spend fifteen hours per week in field work and participate in weekly group sessions at the University for the evaluation of counseling progress. Open only to degree candidates in Counselor Education. *Prerequisite: Education 713. 1 term — 3 semester hours. Normally offered yearly.*

Education 739 — Clinical Practice II. Continuation of Education 732 with an opportunity to assume increased responsibility for clients under supervision. *1 term — 3 semester hours. Normally offered yearly.*

Education 740 — Clinical Practice III. Advanced application of skills in an approved field placement (school, agency or industry). Participation in group sessions for the evaluation of counseling progress. Open only to matriculated CAGS degree candidates in Counseling. *Prerequisite: Education 733. 1 term — 3 semester hours. Normally offered yearly.*

Education 743 — Clinical Practice IV. Continuation of Clinical Practice III. Increased counseling responsibilities. Exploration of an area of individual specialization. *1 term — 6 semester hours. Normally offered yearly.*

Education 744 — Supervision Techniques I. Examination of theories and techniques of clinical supervision. Direct responsibility for assisting in the supervision of Master's Degree students. *Prerequisite — CAGS degree candidacy. 1 term — 3 semester hours. Normally offered yearly.*

Education 745 — Supervision Techniques II. Continuation of Clinical Supervision 1. Increased responsibility for supervision. *Prerequisite: Education 744. 1 term — 3 semester hours. Normally offered yearly.*

Education 746 — Advanced Psychological Testing. Principles and techniques of selected individual intelligence, personality and projective tests. Administration, interpretation, computer applications, and psychological report writing. *Prerequisite: Education 715 and 717. 1 term — 3 semester hours. Normally offered yearly.*

Education 750 — Independent Study Counseling. Intensive study of an aspect of counseling psychology in consultation with a faculty coordinator. *1 term — 3 semester hours. Normally offered yearly.*

Education 753 — Independent Study — Counseling. *Prerequisite: Education 750. 1 term — 3 semester hours. Normally offered yearly.*

Education 760 — Early Childhood Open Concept Education. Implications for curriculum design drawn from examination of child development and environment factors as it concerns the integration of subject matter and including background for development of the open concept of education. *1 term — 3 semester hours. Normally offered alternate years.*

Education 763 — Issues in Early Childhood. Explores basic psychological and philosophical assumptions including the stages and characteristics of normal child development which have significantly influenced Early Childhood education and upon which recently developed Early Childhood programs rest. *1 term — 3 semester hours. Normally offered alternate years.*

Education 764 — Early Childhood Curriculum I. Emphasized the development of infants, toddlers and children ages three through five and examines the values, theories and practical aspects of education in terms of appropriate curriculum for children in this age group. *1 term — 3 semester hours. Normally offered alternate years.*

Education 765 — Early Childhood Curriculum II. Emphasizes the subject matter of Early Childhood education: reading, communication (oral and written), mathematics, science, and social studies. *1 term — 3 semester hours. Normally offered alternate years.*

Education 766 — Designing and Developing a Day Care Center. The essential elements for designing and developing a day care program for pre-school children will be examined in this course. Topics include; licensing, organizational and administrative structure, budgeting and financing center design and development (indoor and outdoor), staffing, caretaking and curriculum. *1 term — 3 semester hours. Normally offered alternate years.*

Education 767 — Marine Education for Elementary Teachers. New England Aquarium staff and exhibits provide resources for developing marine curriculum materials to use in elementary classrooms. *1 term — 3 semester hours. Normally offered alternate years.*

Education 768 — Hospitalization and the Young Child. Review the normal growth and development of children and the implications for emotional, social, psychological and physical care during hospitalization. *1 term — 3 semester hours. Normally offered alternate years.*

Education 769 — Young Children with Special Needs. Recognition of learning and developmental disabilities in children, the impact of disabilities on the learning process, and consequences of delayed intervention will be addressed. *1 term — 3 semester hours. Normally offered alternate years.*

Education 770 — Administration in Early Childhood. Focus will be on the process of administration in various early childhood education settings. Students will examine their own assumptions about leadership and decision making. It encourages the student to develop observational and problem solving skills within the organization and in the environmental setting of the organization. *1 term — 3 semester hours. Normally offered alternate years.*

Education 773 — The Classroom Teacher as an Artist. This course will directly involve the teacher in projects developing his own art skills and appreciation. Concentrated drawing and design, including calligraphy, will be supplemented by gallery, shop and museum visits to further deepen the teachers understanding. *1 term — 3 semester hours. Normally offered alternate years.*

Education 774 — Symbolization: Reading and the Young Child. Studies symbolism and how it evolves into formalized aspects of developmental reading in the young child. Reviews areas such as language and thinking in relationship to these developmental patterns in the years prior to "beginning reading." Useful materials will be created and shared. *1 term — 3 semester hours. Normally offered alternate years.*

Education 775A, 775B — Practicum in Early Childhood Education. For those students who wish additional experience working with young children, an eight week or twelve week practicum may be scheduled in a kindergarten or nursery school program. *8 weeks — 6 semester hours. 12 weeks — 6-9 semester hours. Normally offered yearly.*

Education 776 — Independent Research, Early Childhood. Conference hours will be held with students and readings will be directed in specific areas of research in early childhood education. Projects of this sort will be authorized only in unusual circumstances and upon the approval of the Department Chairman. *1 term — 3 semester hours. Normally offered yearly.*

Education 790 — Research and Evaluation Methods. Heuristic, analytic and synthetic techniques of research are fully explored with special reference to conducting institutional research, needs assessments and evaluations in an open and ethical fashion. *1 term — 3 semester hours. Normally offered yearly.*

Education 793 — Philosophy of Education: Foundations for Curriculum Study. Philosophies of education are examined as a foundation for inquiry into curriculum decision making, subject matter content, and value components in school programs. *1 term — 3 semester hours. Normally offered yearly.*

Education 794 — Social Philosophy of American Education. Explores the interplay of social forms and idea systems in shaping the process of schooling, with particular emphasis upon practical dimensions of social class/ethnic/racial factors in group relations and communication. *1 term — 3 semester hours. Normally offered alternate years.*

Education 795 — Social Psychology of Education. This course studies the impact of social attitudes, motivations, perceptions and interaction on learning. Major attention is devoted to the climate of the school and leadership behavior in both school and classroom. *1 term — 3 semester hours. Normally offered in alternate years.*

Education 796 — Improving Instruction. Examines major contemporary theories of learning so as to suggest instructional improvement strategies on the basis of recent research in teaching and learning. *1 term — 3 semester hours. Normally offered alternate years.*

Education 800 — Curriculum Development and Evaluation. A study of the principles and techniques of curriculum management analyzing both empirical/behavioral and reconceptualist approaches, with field-based applications of theory. *1 term — 3 semester hours. Normally offered yearly.*

Education 803 — Design, Coordination and Teaching of Training/Instructional Programs. This course will develop planning, managing and instructional skills appropriate to training/instructional programs concerned with all dimensions of professional improvement and skills development in specialized school programs, postgraduate programs, public agencies, business and industry. *1 term — 3 semester hours. Normally offered every third year.*

Education 804 — Improvement of Instruction in Community Education. Examination of objectives, contents, methods, teaching aids and evaluative procedures in community education, with field-based exposure to appropriate teaching techniques. *1 term — 3 semester hours. Normally offered every third year.*

Education 805 — Educational Futures. Explores the methodology of futures research to specify the means of forecasting social change and identified possible future scenarios for education. *1 term — 3 semester hours. Normally offered every third year.*

Education 810 — Field Project: Philosophy of Education. Intensive study of the philosophical assumptions governing goal statements and program structure in an educational endeavor resulting in recommendations for fruitful organizational change. *1 term — 3 semester hours. Normally offered alternate years.*

Education 813 — Field Project: Sociology of Education. Intensive study of the sociology of disparate educational organizations, with attention to intergroup conflicts and recommendations for appropriate change strategies. *1 term — 3 semester hours. Normally offered alternate years.*

Education 815 — Competency in Teaching Reading Skills. Concentrates on the reading process, word recognition, comprehension skills and content area reading. Reviews commercially prepared materials. Students demonstrate competency designing and conducting tests and lessons for reading skills. Requires field-based experiences. *1 term — 3 semester hours. Normally offered alternate years.*

Education 816 — Introduction to the Psychology of Reading Disabilities. Analysis of the origin, nature, identification and remediation of reading disabilities. Discussion includes multiple causes of reading disability, research, resources and planning a remedial reading program. Requires field-based experiences. *Prerequisite: Education 815 or concurrent enrollment in Education 815. 1 term — 3 semester hours. Normally offered alternate years.*

Education 817 — Diagnosis of Reading Disabilities. Demonstration, administration and analysis of standardized, informal and criterion-referenced diagnostic reading tests. Requires a diagnostic-corrective case study for a disabled reader. Requires field-based experiences. *Prerequisites: Education 815, 816, or concurrent enrollment in Education 816. 1 term — 3 semester hours. Normally offered alternate years.*

Education 823 — Correction of Reading Disabilities. Continuation of Education 817 where techniques, materials and case studies are discussed. Students submit logs describing 2 diagnostic-corrective programs. Case studies prepared by students are presented. Requires substantial field-based experience. *Prerequisite: Education 817. 1 term — 3 semester hours. Normally offered alternate years.*

Education 825 — Administration and Supervision of Reading Programs. Acquaints students with a variety of reading programs through materials and discussion. Administration of reading programs, roles of faculty members and laws relating to reading programs are discussed. Case studies demonstrate concepts; some field-based experiences. *Prerequisite: Consent of the instructor. 1 term — 3 semester hours. Normally offered alternate years.*

Education 826 — Seminar in Reading. Appraises research in the reading field, acquaints the student with research techniques and results. Requires presentation and defense of the results of reading research. *Prerequisites: Education 815, 816, 817 or consent of instructor. 1 term — 3 semester hours. Normally offered alternate years.*

Education 828 — Independent Research in Reading I. Contemporary research under the direction of the Program Director in the field of Reading and the Language Arts. *Prerequisite: Consent of the Program Director. 1 term — 3 semester hours. Normally offered alternate years.*

Education 829 — Independent Research in Reading II. A second course for contemporary research under the direction of the Program Director in the field of Reading and the Language Arts. *Prerequisite: Consent of the Program Director. 1 term — 3 semester hours. Normally offered alternate years.*

Education 830 — Practicum in Reading I. Requires teaching a small group (3-6) of remedial readers. Supervised teaching emphasizes test interpretation, program planning, instructional techniques, group process evaluation and report preparation. A minimum grade of "B" required. Substantial field-based experiences required. *Prerequisites: Education 816, 817, and, 823. 1 term — 3 semester hours. Normally offered alternate years.*

Education 831 — Practicum in Reading II. Continuation of Practicum in Reading I. *Prerequisites: Education 816, 817, 823, and 830 or concurrent enrollment in Education 830. 1 term — 3 semester hours. Normally offered alternate years.*

Education 845 — Assessment of Specific Learning Needs. Students focus on using and interpreting appropriate assessment and evaluative procedures. *Prerequisite: Education 843. 1 term — 3 semester hours. Normally offered yearly.*

Education 846 — Individualizing Educational Plans. This course examines the development and implementation of individual educational plans. *Prerequisite: Education 843. 1 term — 3 semester hours. Normally offered yearly.*

Education 847 — Career and Vocational Education for the Special Needs Child. This course focuses on implementing career and vocational education with students who have special needs. *1 term — 3 semester hours. Normally offered yearly.*

Education 848 — Group Process. Students develop communication skills and group process techniques. Promoting self-esteem and working with parents of special needs children are major topics. *1 term — 3 semester hours. Normally offered yearly.*

Education 850 — The Generic Consulting Teacher. Emphasis is on techniques of consultation and in-service education. *1 term — 3 semester hours. Normally offered yearly.*

Education 853 — Special Education Research Project. Students design and implement one of the following: basic, experimental research; an innovative educational approach; or, an in-service workshop pertaining to special education. *1 term — 3 semester hours. Normally offered yearly.*

Education 854 — Practicum: Moderate (N-9). The supervised teaching experience involves working with students in grades nursery through nine who have moderate special needs. *1 term — 6 semester hours. Normally offered each semester.*

Education 855 — Internship: Moderate (N-9). An internship must be less than full-time, but at least one-fifth time, employment in the role and at the certification level sought. *1 term — 6 semester hours. Normally offered each semester.*

Education 856 — Seminar: Moderate (N-9). This is a weekly seminar which is designated as an integral part of the practicum or internship. *1 term — 3 semester hours. Normally offered each semester.*

Education 857 — Practicum: Moderate (5-12). The supervised teaching experience involves working with students in grades five through twelve who have moderate special needs. *1 term — 6 semester hours. Normally offered each semester.*

Education 858 — Internship: Moderate (5-12). An internship must be less than full-time, but at least one-fifth time, employment in the role and at the certification level sought. *1 term — 6 semester hours. Normally offered each semester.*

Education 859 — Seminar: Moderate (5-12). This is a weekly seminar which is designated as an integral part of the practicum or internship. *1 term — 3 semester hours. Normally offered each semester.*

Education 860 — Practicum: Generic Consulting Teacher. The supervised teaching experience involves implementing the role of the Generic Consulting Teacher. *1 term — 6 semester hours. Normally offered each semester.*

Education 863 — Internship: Generic Consulting Teacher. An internship must be less than full-time, but at least one-fifth time, employment in the role and at the certification level sought. *1 term — 6 semester hours. Normally offered each semester.*

Education 864 — Seminar: Generic Consulting Teacher. This is a weekly seminar which is designated as an integral part of the practicum or internship. *1 term — 3 semester hours. Normally offered each semester.*

Education 865 — Practicum: Severe. The supervised teaching experience involves working with students who have severe special needs. *1 term — 6 semester hours. Normally offered each semester.*

Education 866 — Internship: Severe. An internship must be less than full-time, but at least one-fifth time, employment in the role and at the certification level sought. *1 term — 6 semester hours. Normally offered each semester.*

Education 867 — Seminar: Severe. This is a weekly seminar which is designated as an integral part of the practicum or internship. *1 term — 3 semester hours. Normally offered each semester.*

Education 868 — Special Education: Independent Study (N-9). The student works independently to document and/or demonstrate specified competencies in working with moderate special needs pupils (Grades N-9). *1 term — 3 semester hours. Normally offered each semester.*

Education 869 — Special Education: Independent Study (5-12). The student works independently to document and/or demonstrate specified competencies in working with moderate special needs pupils (Grades 5-12). *1 term — 3 semester hours. Normally offered each semester.*

Education 870 — Special Education: Independent Study (Generic Consulting Teacher). The student works independently to document and/or demonstrate specified competencies involved in implementing the role of the Generic Consulting Teacher working with pupils and teachers (Grades N-12). *1 term — 3, 6, or 9 semester hours. Normally offered each semester.*

Education 873 — Special Education: Independent Study (Severe). The student works independently to document and/or demonstrate specified competencies in the area of working with students who have severe special needs. *1 term — 3, 6, or 9 semester hours. Normally offered each semester.*

Education 874 — Educational Principles and Programs for the Severely Handicapped. Emphasis on educational programming for severely and profoundly handicapped students. Includes evaluation of existing programs and strategies. *1 term — 3 semester hours. Normally offered yearly.*

Education 900 — Directed Studies. Members of the Department will hold conference hours with students and will direct their readings in areas of education research which may be of special interest to them. Projects of this sort will be authorized only in unusual circumstances upon the recommendations of the Department Chairperson and with the approval of the Dean. *1 term — 3 semester hours.*

Evening Division

Suffolk University was the first institution of higher education in the Boston area at which students could earn the bachelor's degree entirely through evening study. In keeping with this tradition, the Evening Division provides an opportunity for qualified men and women to obtain a college education while working days to support themselves and their families.

While it is important for the individual to have an opportunity to achieve personal goals, it is likewise important for society to have an adequate supply of educated citizens. In this respect, the University serves civic and social functions by helping students to become more effective members of our democratic society.

With the world in the midst of a "Technological Revolution," analogous in nature and importance to the Renaissance and Industrial Revolution, the University serves the function of helping students to participate more effectively in the complex economic life of the nation. It provides a reservoir of college trained men and women necessary for an efficient and productive economy.

Education has become a life-long process and should no longer end with the acquisition of a high school diploma or college degree. Consequently, it is necessary to educate adults as well as young people. Approximately 1600 students of all ages are enrolled evenings in the College of Liberal Arts and Sciences and School of Management, and nearly 650 in the Evening Division of Suffolk University Law School.

Objectives The objectives of the Evening College Program are to meet the professional and cultural needs of the following groups of adults:

(1) Adults who are fully qualified for admission to *undergraduate degree programs* in liberal arts, science, education, or business administration, but who prefer to attend evenings on either a part-time or full-time basis.

(2) Adults who wish to acquire or to update professional knowledge, whether for personal interest or professional advancement.

(3) Adults who seek *self-fulfillment* through courses or degree programs in liberal arts, humanities, natural science, or social science.

(4) Adults who seek *pre-professional programs* to equip them to study law, medicine, dentistry, optometry, veterinary medicine, or medical technology.

(5) Adults who wish to *improve their skills* in reading, writing, English, mathematics, or speech through college level courses.

(6) Transfer students from two-year and four-year colleges who are recommended for study toward the baccalaureate.

(7) Graduates of accredited colleges who wish to take *graduate level courses* toward the master's degree in education or business administration, or who wish to take selected courses as special students for professional advancement or to meet teacher certification requirements.

(8) Senior citizens who wish to take tuition-free courses on a space-available basis.

Curricula Curricula are designed to meet the professional needs of the industrial, educational, and governmental complex of New England. After completing basic required courses, students select a major field for advanced study and may earn the baccalaureate degree. A variety of majors are available within the broad areas of liberal arts, sciences, social science, business administration, education and journalism. The master's degree is awarded in education, management, and public administration.

General Information Students should refer to the appropriate sections of the catalog for detailed information on Admission, Registration, Transfer Credit, Course Credit, Auditing, Finances and Student Aid.

A maximum of eight years is the normal limit for completion of part time or interrupted degree programs on the undergraduate level. Work for the master's degree must be completed within five years after graduate course work has started.

The academic year consists of 32 weeks, divided into 2 semesters. Evening courses meet one evening a week. Courses meeting once a week meet for a double period, usually from 4:30 to 7:10 p.m., 5:30 to 8:10 p.m., or from 7:15 to 9:55 p.m. Saturday classes meet for a double period and run from 9:00 to 11:40 a.m. or from 12:00 to 2:40 p.m. Graduate courses normally meet one evening a week or on Saturday. Most courses carry three semester hours of credit.

The length of time required to earn a bachelor's degree varies with the number of courses carried and with the acceleration of course work by attending the evening summer session. By taking a moderate load of two courses each semester and during the summer, a student can earn 18 semester hours per year and complete the degree in six and one-half to seven years.

By carrying three courses each semester and two in the summer, a student can earn 24 semester hours per year and complete the degree in five years.

Students employed full time will find it difficult to carry more than two or three courses in a given semester. All programs must be approved by faculty advisors. *A minimum of five hours per week should be allowed for homework in each course. Advanced courses and laboratory courses may entail considerably more time.*

All evening courses are the full equivalent of courses offered during the daytime. Consequently, day and evening courses are interchangeable, academic standards are the same, and students in good standing may transfer from the Evening Division to the Day Division, provided space is available and vice versa. Day and evening students are considered a single student body with respect to both standards and status.

Faculty members have been selected for their professional back-ground, teaching ability, and broad experience. Most are full-time teachers at Suffolk University who teach one or two evening courses as part of their normal teaching load. In addition, visiting lecturers are drawn from industry or from the day faculties of neighboring Universities. They provide a high quality of instruction and believe in the importance and value of providing continuing higher education for adults.

The Evening Division Student Association represents the interests of evening students in both academic-related and social concerns. Several events are planned by E.D.S.A. each year, to include an Oktoberfest, the Mystery Ride, and Recognition Night. The Suffolk Evening Voice is published periodically during the year by evening students and features items of special interest to evening students.

Degrees and Major Fields of Study

The degrees of Bachelor of Arts, Bachelor of Science, Bachelor of Science in Journalism, and Bachelor of Science in General Studies are offered in the College of Liberal Arts and Sciences. Major and pre-professional program requirements for these degrees may be completed evenings in the areas indicated below:

B.A. and B.S. Degrees

The B.A. and B.S. degrees are available to Evening Division Students in the following areas:

Chemistry	History	Psychology
Government	Life Studies	Sociology

For specific requirements of B.A. and B.S. programs, see pp. 39 to 43.

Requirements for other majors such as biochemistry, biology, clinical chemistry, economics, English, French, Humanities, mathematics, physics, and Spanish can be met by a combination of day and evening courses. After completing basic requirements evenings, students can complete advanced courses in their specialized majors days during their junior and senior years on either a part-time or full-time basis. Some companies grant employees released time for this purpose.

B.S. in Journalism

For specific requirements of the B.S. in J. programs, see p. 50.

B.S. in General Studies

Normally Available Evenings Only

The Bachelor of Science in General Studies degree is a special liberal arts program designed to make available to evening students a wider range of major subjects than is presently possible in the evening B.A. and B.S. degree programs. The B.S. in G.S. resembles the B.S. degree described elsewhere, but provides a variety of interdepartmental majors in the humanities, social studies, life science, or physical science. These majors consist of 42 semester hours in two or more related areas. In the event that a student transfers to the Day Division, he can readily convert part of his interdepartmental major to a day major, thereby meeting requirements for the B.A. or B.S. degree. The Bachelor of Science in General Studies degree is intended to meet the needs of students who seek a broad cultural background rather than preparation for admission to graduate school.

B.S. in G.S. candidates may choose a major program from among the following interdepartmental programs:

Interdepartmental Majors

Humanities: courses in humanities, literature, philosophy, speech, journalism
Physical Science: courses in chemistry, physics, mathematics, computer science
Life Science: courses in biology and chemistry
Social Science: courses in economics, government, history, psychology, sociology, education

Students may count appropriate courses within an option toward their major. Other combinations of major courses appropriate for meeting the student's objectives may be developed with the approval of their principal Departmental Chairperson.

For specific requirements of the B.S. in G.S. program see pp. 50-51.

Summer Session

Summer provides an opportunity for study, whether for pleasure, acceleration, or remedial purposes. Suffolk University's quiet, air-conditioned buildings offer ideal conditions for summer study, and at the same time, easy access to Boston's historic, cultural and recreational activities for leisure hours. There are fewer students than during the rest of the year, classes are smaller, and contacts between faculty and students are informal. The atmosphere is conducive to stimulating discussion and quiet reflection. Recreational and cultural activities available in the Boston area range from community sailing on the Charles River to the Boston Pops.

Day Sessions The Day Sessions are unique in that they *combine a four-day week with two sessions of approximately six weeks length.* Not only do students have great flexibility of choice, but they also have three-day weekends for study or relaxation. Day courses will normally meet four days per week, Monday through Thursday.

Day students normally carry two courses per term, and may attend either or both sessions. However, students whose average is 2.5 or better may carry a third course each term, thereby readily completing a full semester's work during the summer.

Evening Sessions The Evening Summer Session consists of two sessions of approximately seven weeks length and special short courses and institutes (particularly in Education). Evening students normally take one or two courses, but may take a third course if their employment schedule is not too demanding. The seven-week evening classes normally meet two evenings per week, Monday and Wednesday, or Tuesday and Thursday.

The purpose of the Summer Program is to provide undergraduate and graduate instruction for:

. . . Suffolk University students who wish to accelerate their degree programs.
. . . New students entering degree programs.
. . . Students who need to repeat courses.
. . . Special students from other colleges who wish to take credit courses for transfer.
. . . Teachers who want to strengthen their professional background.
. . . Homemakers and other women who want to continue their education.

Students attending Suffolk University Summer Session may enroll in a Regular Degree Program, or as Special Students. In addition to the information that follows, applicants should read the section on Admissions.

The Regular Degree Programs are for undergraduate and graduate students who are candidates for Suffolk degrees. Applicants must apply and qualify in the normal way.

Special Students are students who are not presently working toward a Suffolk degree, but who wish to take summer courses at Suffolk University. Admission to the summer session as a Special student does not constitute admission to degree candidacy. Special Students who were admitted to the summer session only and who wish to continue their studies in the following term must make formal petition to do so.

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