

Academic Programs

Programs of Study

Bachelor's Degrees

Bachelor of Arts:

- Art
- Communication Arts
- Economics
- English
- Geography
- History
- Interdisciplinary Major in Liberal Arts & Sciences
- Liberal Studies
- Modern Languages
- Politics
- Psychology
- Sociology

Bachelor of Science:

- Biology
- Business Administration
- Business and Information
- Chemistry
- Computer Science
- Fashion Design and Retailing
- Food and Nutrition
- Food Science
- Health and Consumer Sciences Technology
- Mathematics
- Nursing (R.N.'s only)

*Bachelor of Science in Education:

- Early Childhood Education
- Elementary Education

**Students interested in pursuing a Coordinate Major in either Early Childhood or Elementary Education must also declare and successfully complete a primary liberal arts or interdisciplinary major.*

Majors, Concentrations, and Minors

Major: A program of study which cannot exceed 20 course credits. The faculty prescribes the courses in the major field of study. The courses that constitute the major include all the major courses, required related courses, and professional education courses.

Coordinate Major: A program of study offered by the Education Department leading to Initial Licensure in Elementary Education and Early Childhood Education. Students enrolled in this program major in the Interdisciplinary Major in Liberal Arts and Sciences or in a traditional discipline.

Concentration: A focused program of courses within the major. Generally a concentration provides the student with a proficiency or competency in a specialty area within the major field.

Minor: A limited specified or unspecified program of courses taken in a different department from the major.

Residency Requirements

To complete the College residence requirement, a minimum of eight (8) course credits (32 semester hours) must be taken on campus.

To complete a major requirement, a minimum of five (5) course credits (20 semester hours) in the major department must be taken on campus.

To complete a minor requirement, a minimum of three (3) course credits (12 semester hours) in the minor department must be taken on campus.

Available Programs

Major	Department
Art History	Art and Music
Art Studio <i>Concentrations in:</i> Art Teaching Ceramics Painting Printmaking Sculpture Studio Arts Visual Communications: Graphic Design Visual Communications: Illustration	Art and Music
Biology <i>Concentrations in:</i> Biology Teaching Biotechnology and Biomedical Science General Studies Pre-professional Program Wildlife and Environmental Biology	Biology
Business Administration <i>Concentrations in:</i> Accounting Finance General Studies International Business Management Marketing	Economics and Business Administration
Business and Information Technology <i>Concentrations in:</i> Business	Economics and Business Administration
Chemistry <i>Concentrations in:</i> ACS Approved Program Biochemistry Chemistry Teaching General Chemistry	Chemistry and Food Science
Communication Arts <i>Concentrations in:</i> Communication Studies Corporate Communication Speech and Performance Communication Visual Media Production Visual Communications	Communication Arts
Computer Science <i>Concentrations in:</i> General Computer Science Software Engineering	Computer Science

Early Childhood Education (Coordinate Major)	Education
Economics <i>Concentrations in:</i> Applied Microeconomics Business Finance Quantitative Economics	Economics and Business Administration
Elementary Education (Coordinate Major)	Education
English <i>Concentrations in:</i> English Teaching Creative Writing Film Studies General Studies Journalism Professional Writing Writing	English
Fashion Design and Retailing <i>Concentrations in:</i> Apparel Design Merchandising	Consumer Sciences
Food and Nutrition <i>Concentrations in:</i> Applied Nutrition Coordinated Program in Dietetics Nutrition and Dietetics	Consumer Sciences
Food Science <i>Concentrations in:</i> Applied Food Science Food Science and Technology	Chemistry and Food Science
Geography <i>Concentrations in:</i> Earth Science Teaching Environmental Studies Global Studies Urban and Regional Planning	Geography
Health and Consumer Sciences <i>Concentrations in:</i> Consumer and Community Services Health and Fitness Teacher Preparation	Consumer Sciences
History <i>Concentrations in:</i> General Studies History Teaching	History

<p>*Interdisciplinary <i>Specializations in:</i> Geography and Earth Science Social Sciences Language Arts Natural Sciences</p>	<p>Geography History English Physics and Earth Sciences</p>
<p>Liberal Studies General Studies</p>	<p>Continuing Education Division</p>
<p>Mathematics <i>Concentrations in:</i> Elementary/Early Childhood Education General Studies Secondary Education</p>	<p>Mathematics</p>
<p>Modern Languages <i>Concentrations in:</i> French French Teaching International Management Spanish Spanish Teaching World Languages</p>	<p>Modern Languages</p>
<p>Nursing (R.N.'s only)</p>	<p>Nursing</p>
<p>Politics <i>Concentrations in:</i> General Studies</p>	<p>Government</p>
<p>Psychology <i>Concentrations in:</i> Developmental Psychology Educational Psychology General Studies Human Services Work and Applied Psychology</p>	<p>Psychology</p>
<p>Sociology <i>Concentrations in:</i> Anthropology Business and Society Deviance and Social Control General Studies Human Services Social Justice</p>	<p>Sociology</p>

*Available only to students selecting a Coordinate Education Major.

Note: Refer to the catalog index for page numbers of program descriptions.

Minors

To complete a minor requirement, a minimum of three (3) course credits (12 semester hours) in the minor department must be taken on campus.

- American Studies
- Apparel Design
- Art Studio
- Biology
- Chemistry
- Computer Science
- Earth Science
- English
- French
- Geography
- History
- Information Technology
- Latin American Studies
- Mathematics
- Music
- Nutrition
- Physics
- Psychology
- Secondary Education
- Spanish
- Theatre Performance
- Anthropology
- Art History
- Biochemistry
- Business Administration
- Communication Arts
- Consumer & Community Services
- Economics
- Food Science
- Gender Studies
- Geology
- Information Systems
- Journalism
- Law and Politics
- Museum Studies
- Neuroscience
- Philosophy
- Professional Writing
- Public Administration
- Sociology
- Statistics
- Writing

Interdepartmental Minors

An Interdepartmental Minor shall consist of a designated number of courses, which must be taken in at least three different departments. Only one (1) course may be taken within the student's major department. No course may fulfill both major and minor requirements, but courses in the minor may be used to fulfill general education requirements. To complete a minor requirement, a minimum of three (3) course credits (12 semester hours) in the minor must be taken at Framingham State College.

American Studies Minor

The College offers a minor in American Studies. To earn an American Studies minor, students must apply in writing to the Chair of either the English or History Department and have a sequence of courses designed and approved to meet specific goals. Applications are available in either Chair's office. To complete the minor, four (4) of the five (5) courses must be taken outside the student's major department. No American Studies minor will be awarded without compliance with the above format.

The minor in American Studies requires five (5) courses representing at least three (3) disciplines, distributed as follows:

- A. One (1) of the following courses in American literature:
 - ENGL 243 The American Short Story
 - ENGL 245 The American Novel
 - ENGL 261 American Writers I
 - ENGL 262 American Writers II
- B. One (1) of the following courses in American history:
 - HIST 318 Religion in America
 - HIST 326 Women in American History
- C. A total of three (3) courses from at least two of the following disciplines: (At least three disciplines must be represented in the total of five courses.)

Art

ARTH 282 American Art

Economics

ECON 101 Principles of Macroeconomics

ECON 102 Principles of Microeconomics

ECON 230 Urban Economics

English

ENGL 243 The American Short Story

ENGL 245 The American Novel

ENGL 260 American Ethnic Literature

ENGL 261 American Writers I

ENGL 262 American Writers II

ENGL 353 Dickinson and Frost

Geography

GEOG 251 Geography of New England

Biology

BIOL 103 Ecological Implications of Conservation

History

HIST 151 United States History to Reconstruction

HIST 152 United States History since Reconstruction

HIST 308 American Civil War Era

HIST 310 Emergence of a Modern Nation

HIST 318 Religion in America

HIST 321 Immigrants, Ethnic, and Racial Minorities in the United States

Music

MUSC 141 American Musics

MUSC 151 The History and Literature of Jazz

Sociology

SOC 130 Social Problems

SOC 251 Urban Sociology

SOC 267 Sociology of Subcultures

SOC 315 Social Class in American Society

SOC 340 Sociology of Work - Occupations and Professions

American StudiesINTD 490 Independent Study in American Studies
(see page xx INTERDISCIPLINARY COURSES for course description)**Gender Studies Minor**

The College offers a minor in Gender Studies. To earn a Gender Studies minor, students must apply in writing to the Chair of either the English, History, or Sociology Department. To complete the minor, no more than two (2) courses may be taken in a single department. Only one (1) course may be taken within the student's major department.

No course may fulfill both major and minor requirements, but courses in the minor may be used to fulfill general education requirements. No Gender Studies minor will be awarded without compliance with the above format.

The minor requires five (5) courses as follows:

One (1) required courses:

ANTH 253 Gender Across Cultures

Student must also complete four (4) of the following courses:

Art & Music

MUSC 220 Women in Music

English

ENGL 250	Literature and Gender
ENGL 269	Women Writers
ENGL 277	Contemporary World Literature by Women

History

HIST 326	Women in American History
HIST 365	The History of Gender, Sexuality, and the Body
HIST 371	Women in Europe

Psychology

PSYC 286	Psychology of Women
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Sociology

SOCI 258	Critical Approaches to Men and Masculinities
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Information Technology Minor

The College offers an interdisciplinary minor in Information Technology. To earn a minor in Information Technology, students must apply in writing to the Chair of the Computer Science Department. To complete the minor, four (4) of the five (5) courses must be taken outside the student's major department. No course may fulfill both major and minor requirements, but courses in the minor may be used to fulfill general education requirements. No Information Technology minor will be awarded without compliance with the above format.

The minor requires five (5) courses as follows:

Three (3) required courses:

BADM 200	Introduction to Business Systems
CSCI 120	Introduction to Information Technology (must be taken prior to other courses in the minor)
INTD 140	Introduction to the Internet, Graphics, and Multimedia

Two(2) electives from the following list:

Communication Arts:

COMM 200	Introduction to Computer Graphic Design
COMM 225	Multimedia Design
COMM 316	Advanced Multimedia

Computer Science:

CSCI 108	HTML, JavaScript Programming, and Web Site Development
CSCI 152	Computer Science I Using Java
CSCI 230	Principles of Information Technology Operations
CSCI 252	Computer Science II Using Java
CSCI 258	Introduction to Operating Systems using UNIX
CSCI 306	Introduction to Visual Basic
CSCI 320	Windows Server and Client Management
CSCI 345	Computer and Network Security

Geography:

GEOG 214	Geographic Techniques – Quantitative Methods
GEOG 216	Introduction to Geographic Information Systems

Mathematics:

MATH 117	Introduction to Statistics OR
	MATH 208 Biostatistics
MATH 307	Intermediate Statistics

Latin American Studies Minor

Students interested in this program must apply to the Chairs of either the Geography, History, or Modern Languages Departments. To complete the minor, four (4) of the five (5) courses must be taken outside the student's major department. No course may fulfill both major and minor requirements, but courses in the minor may be used to fulfill general education requirements. Note: Modern Language majors must take at least two (2) additional

approved courses, outside the major, and not listed above. Approval must be given by the Chair of the Modern Languages Department. No Latin American Studies minor will be awarded without compliance with the above format.

The minor requires five (5) courses as follows:

Four (4) Required courses:

GEOG 257	Geography of Latin America
HIST 336	Latin America from the Conquest to the Present
MLSP 332	Advanced Spanish Composition and Conversation II or the equivalent
MLSP 334	Spanish-American Culture and Civilization

One (1) Elective Course:

The student must choose at least one (1) of the following courses:

HIST 314	United States Diplomatic History
MLSP 435	The Boom in Latin-American Literature
MLSP 432	Contemporary Trends in Spanish-American Thought

Museum Studies Minor

This interdepartmental minor requires that students take a minimum of five (5) courses outside of their major department. Students are strongly encouraged to complete a museum internship to complement the minor. To complete the minor, four (4) of the five (5) courses must be taken outside the student's major department. No course may fulfill both major and minor requirements, but courses in the minor may be used to fulfill general education requirements. No Museum Studies minor will be awarded without compliance with the above format.

The minor requires five (5) to seven (7) courses as follows:

One (1) Required course:

INTD 371	Museum Studies
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Choose two (2) of the following:

FASH 253	Cultural Dress (Gen.Ed. Goal 11)
FASH 278	History of Furniture (Gen.Ed. Goal 5)
FASH 347	History of Textiles
FASH 223	History of Costume (Gen.Ed. Goal 5)

Choose two (2) of the following:

ARTH 200	Art and Social Values (Gen.Ed. Goals 5, 12)
ARTH 272	History of Art II (Gen.Ed. Goal 5)
ARTH 282	American Art (Gen.Ed. Goal 5)
INTD 381	Museum Seminar or any two (2) courses approved by the Art Department Chair

Choose two (2) of the following:

HIST 154	Western Civilization since the Renaissance (Gen.Ed. Goal 8)
One (1) 300-level history course approved by the department chair	

Neuroscience Minor

The College offers an interdisciplinary minor in Neuroscience. To complete a minor in Neuroscience, four (4) of the five (5) courses must be taken outside the student's major department. Students interested in a minor in Neuroscience should see the coordinator in the Biology Department or the chair of the Psychology & Philosophy Department. Note: Courses bearing general education credit may be used to satisfy both the minor and general education goals.

Students who are neither Biology nor Psychology majors must take both BIOL 142 Introduction to Human Biology and PSYC 101 General Psychology. No additional elective is required.

Four (4) Required Courses:

BIOL 142	Introduction to Human Biology (Goal 7, lab) or
PSYCH 101	General Psychology (Goal 9)
(Non Biology or Psychology majors must take both courses)	

INTD 225	Biopsychology*
INTD 222	Bioethics (Goal 4)
PSYC 362	Cognitive Psychology* OR
	BIOL 325 Neurobiology*

One (1) Elective Courses:

One elective from the following list:

Biology:

BIOL 220	Animal Behavior*
BIOL 417	Endocrinology*

Interdisciplinary/Interdepartmental:

INTD 310	Drug Addiction*
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Psychology:

PSYC 208	Health Psychology*
PSYC 261	Conditioning and Animal Learning*
PSYC 280	Sensation & Perception*

* Indicates course has a prerequisite

Pre-Professional Programs

Pre-Engineering

Advisor: Kristen Chon, Physics and Earth Science Department

This program, in cooperation with the University of Massachusetts-Lowell, University of Massachusetts-Dartmouth, and University of Massachusetts-Amherst, establishes a freshman and sophomore curriculum leading to a B.S. degree in one of the engineering disciplines. A typical student accepted into this program will study for two years at Framingham State College and complete the program at one of the universities, earning the degree from that institution. Pre-engineering students who complete the program with a “B” average (CQPA = 3.00 or better) are guaranteed admission in the engineering program at each university campus. Those students with a “C” average will probably be accepted, but their transfer cannot be guaranteed. Other students may choose to remain at Framingham and complete their program of studies in a major such as biology, chemistry, or computer science. (For further information see Physics and Earth Sciences section.)

Pre-Law

Advisor: John Ambacher, Government Department

Since law schools do not require or recommend specific undergraduate majors, the College does not offer a prescribed pre-law program, although the Government Department offers a minor in law and politics. Students are encouraged to choose a major and courses that emphasize reading, writing, and speaking, as well as analytical skills. Students contemplating a career in law should plan their curriculum under the guidance of both major and pre-law advisors.

Pre-Professional Curriculum for Students Interested in the Medical Professions

Advisors: Aline M. Davis, Biology Department
Louise Bodack, Chemistry & Food Science Department

Individuals interested in careers in the medical professions should have a minimum of one full year of the following course groups: college biology, introductory chemistry, organic chemistry and physics. To enroll in physics, students must have completed or be enrolled in Calculus I. Majoring in either Biology (Pre-professional) or Chemistry (with Biology minor) fulfills most or all of these course areas.

Many of the required or recommended pre-professional courses are fulfilled through appropriate selections from the General Education program at Framingham State College, including courses in English composition and literature, psychology, and sociology. However, many professional programs require additional courses in biology and biochemistry.

Pre-professional students should meet with one of the pre-professional curriculum advisors no later than their sophomore year and continue to meet periodically. This contact will ensure that students complete the specific requirements for the professional programs to which they intend to submit applications, since each program and institution has varying admissions requirements. Note that particularly strong graduating grade-point averages are required for competitive applications to professional schools.

Undeclared Major

A candidate for admission to Framingham State College may elect not to declare a major. Students who are admitted as undeclared students are encouraged to view their status as an opportunity to explore a range of fields of interest. Undeclared students must apply for a specific major prior to the onset of the junior year. The Assistant Dean of Academic Affairs serves as chair of undeclared students. The Assistant Dean's office is located in the Center for Academic Support and Advising (CASA), South Peirce Hall.

Undeclared students are encouraged to visit the Advising Center in CASA for help in curriculum planning and exploration of possible majors. In addition, the Career Resource Center in the College Center sponsors career workshops and offers individual career counseling that is particularly helpful to undeclared students.

Framingham State College Honors Program (Institutional)

The Framingham State College Honors Program is designed to provide academically talented students with the opportunity to enrich their college experience with courses both within and outside their major department. Courses bearing the "Honors" designation are drawn from a wide range of disciplines, and are designed to be intensive and intellectually challenging, drawing upon and developing students' creativity and analytical thinking skills.

Honors courses are designed for a maximum enrollment of 15-20 students to foster in-depth class discussion and a close student-instructor relationship. Some honors courses are restricted to "honors" participants, while others are offered as "split" courses with a core of honors students working within a larger classroom of students at large. Honors courses may be applied to the general education requirements specified by the College. Honors courses may be taken by students who are not participating in the program on a space available basis with the permission of the instructor. Up to two General Education Honors course requirements may be waived with an AP score of 4 or 5 for students entering the College for the Fall 2003 semester forward.

Admission Requirements

Freshman Level Admission: Entering freshmen will be invited to participate in the Framingham State College Honors Program based on a weighted composite of their combined SAT scores, class rank, and demonstrated potential for superior work at the college level. Any student admitted to the College who was not initially invited to participate in the program may apply directly to the Honors Program Committee for admission.

Sophomore and Transfer Student Admission: Students may apply for admission to the Framingham State College Honors Program as sophomores. A minimum QPA of 3.25 together with two letters of recommendation from faculty members and a brief statement of intent should be submitted to the Honors Committee for evaluation before October 1st of their sophomore year.

Program Requirements

Participants in the Framingham State College Honors Program must complete a minimum of five (5) course credits bearing the honors designation, plus the honors capstone course 84.480 (Honors Program Thesis/Project). Most honors courses are specially designed sections of regular 100- and 200-level courses which fulfill one or more general education goals and may be used toward the general education requirements. However, students may choose to substitute one upper-division course in their major (300- or 400-level) for one of the five designated honors courses by submitting an honors contract in which the student and instructor devise or enhance a project within the course that emphasizes advanced, independent research on a particular subject. Upper-level contract courses do not count toward the general education requirements.

As a condition of continued enrollment in the Honors Program, a freshman or sophomore must maintain a QPA of no less than 3.00 overall; a junior or senior must maintain a QPA of 3.25 or greater. In addition, a 3.00 QPA in hon-

ors courses is required of all honors students. Students falling below these requirements are allowed to continue in the program for a probation period of one semester (juniors and seniors) or one year (freshmen and sophomores). Subsequent continuance is at the discretion of the Honors Program Advisory Council.

Participation in the Framingham State College Honors Program is noted on the students' transcripts. Students completing the program also receive a certificate which recognizes the honor.

Departmental Honors Program

This program affords qualified students the opportunity to do extensive study in an area of interest not usually pursued in regular academic work. The completed thesis is recorded on the student's transcript and is placed on permanent file in the library. Distinction for completing the honors thesis is also noted at commencement. Students should consult their department chair to initiate their enrollment in the departmental honors program.

Students are eligible for honors work if they have an average quality rating of 3.00 or higher for the entire sophomore year, or for the last semester sophomore year plus the first semester junior year. The 3.00 cumulative quality rating must include a minimum of four (4) course credits taken at Framingham State College. Students undertaking this program may elect to omit one elective course in the senior year, substituting the final work of this research project for the course omitted. Course substitution must be approved by the student's academic advisor and department chair.

The program is carried on under the direction of a faculty advisor. The choice of the faculty advisor and the actual program of study are matters of mutual agreement between the student and the faculty member. Students may begin work any time after qualifying and must continue for at least two semesters.

Graduate and Continuing Education

The Division of Graduate and Continuing Education (DGCE) at Framingham State College offers part-time graduate, undergraduate, certificate, and post baccalaureate teacher licensure programs. Most classes are offered late afternoon, evenings, and online. DGCE also provides a variety of professional development and lifelong learning opportunities, as well as English as a Second Language (ESL) classes and workshops to prepare for the Massachusetts Teacher Licensure Test (MTEL). Summer sessions and winter intersession are also coordinated through DGCE. Graduate programs are described in depth in the Framingham State College Graduate Catalog.

Part-time undergraduate programs

DGCE offers evening undergraduate programs leading to the baccalaureate degree with majors in: Business Administration, Business and Information Technology, Computer Science, Economics, English, History, Liberal Studies, Psychology, and Sociology.

Liberal Studies Program (Bachelor of Arts)

The Bachelor of Arts in Liberal Studies program is a part-time Continuing Education Division program designed for adults returning to college. Courses are offered on-site and online. Students who wish to apply for "Experiential Learning" credit must complete the portfolio process within twelve months of matriculation into the Liberal Studies Program. "Experiential Learning" credits are only applicable to the Liberal Studies degree at Framingham State College. Note: The Liberal Studies Program is a part-time program only, and is not available to students seeking the F-1 Visa or residence hall accommodations. The Liberal Studies Program may not be appropriate for students seeking teacher, dietetic, or other professional licensure. Please consult the Liberal Studies Program advisor before enrolling.

Requirements for the program include: twelve (12) General Education Goals including one laboratory science and one constitution course, ten (10) free elective course credits. A maximum of eight (8) course credits may be applied toward free electives from Experiential Learning credits. Ten (10) Concentration course credits comprised of courses from at least two, but no more than three major academic departments. A minimum of six (6) course credits must be completed at the advanced level (300-400), including a capstone directed study course. Five (5) of the six (6) advanced level courses including the capstone course must be completed at Framingham State College.

For further information about Graduate, Post Baccalaureate, Undergraduate and Certificate programs offered through DGCE, please contact DGCE at 508-626-4550 or visit the web site at <http://www.framingham.edu/dgce>.

Undergraduate Degree Requirements

1. **COURSE LOAD.** Students must complete a minimum of 32 course credits for graduation. A candidate for the bachelor's degree normally takes four (4) course credits in each of eight (8) semesters of residency. Students must take a minimum of three (3) course credits to be considered full-time. Each course credit is the equivalent of a four-semester hour course in terms of the work expected; therefore, a student usually carries the equivalent of 16 semester hours of course work during each semester at the College.
2. **COURSE DISTRIBUTION.** Twelve (12) course credits are allocated to complete the general education requirements, described in the next section. Each student must also satisfy the requirements of a major. The number of required course credits varies with the major chosen (see individual department sections). Depending on the major, students may be able to choose free electives from among the 32 course credits necessary for graduation.

Students registering for 600-level Framingham State College Continuing Education courses must obtain prior written approval from their major department chairs. Failure to do so will result in denial of course credit toward the degree, as 600-level courses are not applied to the baccalaureate degree without prior approval of the major department chair.
3. **RESIDENCY.** Eight (8) course credits must be taken at Framingham State College to complete residency requirements. Transfer students must complete a minimum of five (5) Framingham State College course credits in their major department and, if applicable, three (3) Framingham State College course credits in their minor department.
4. **QUALITY POINT AVERAGE.** To graduate, students must have achieved a cumulative quality point average (QPA) of 2.00 or higher. Effective Fall 2007, completion of a baccalaureate degree at Framingham State College requires that all students achieve a minimum 2.00 QPA in their major requirements, including major-related courses taken outside of the home department in fulfillment of major requirements as well as College residency requirements.
5. **DEGREE APPLICATION.** All students expecting to receive their degree from the College must submit a formal degree application to the Office of the Registrar. See "Graduation" under Academic Regulations for details. Beginning with the Spring 2011 Commencement Ceremony, all students must complete all degree requirements in order to participate in Commencement.

General Education Requirements

The general education requirement is intended to provide breadth in the baccalaureate degree program to foster student learning beyond a single, narrow discipline or field. General education is designed to facilitate the increase of knowledge, an appreciation for learning in a broad context, the ability to relate new information to what one has previously learned, the capacity to judge information rather than to simply accept it, and the facility to use what one learns in a realistic and logical manner. In addition, the general education requirement is designed to help students to acquire the ability:

- To communicate (write, speak, and listen) clearly and effectively,
- to think critically, quantitatively, and creatively, and
- to locate and to process information.

To fulfill the general education requirement, students must complete course credits outside the major department that meet twelve (12) broadly defined goals. Students are not allowed to substitute non-general education course for general education credit. In some majors, one general education goal is considered satisfied through completion of the major (see department sections in the catalog). In such cases, the number of general education courses is reduced to eleven (11), leaving one free elective. Each general education course is designed to cover at least one, but no more than two goals. Under each of the 12 general education goals shown below, courses are listed that fulfill the goal; if more than one goal is covered, the second is shown in parentheses.

Goal 1 (Writing) and Goal 2 (Quantitative) must be completed within the first year of matriculating at the College. In conformity with the laws of the Commonwealth of Massachusetts and in partial fulfillment of the mission of the

State Colleges to prepare informed citizens, all students at Framingham State College must take a course meeting either general education goal eight (8) or goal ten (10) in which both the United States and Massachusetts constitutions are studied. In addition, at least one course taken under Goal 6 (Physical Science) or Goal 7 (Life Science) must be a laboratory course. Courses that include a laboratory or study of the constitutions are identified in the listing.

Note: Students who have withdrawn for more than one semester must follow degree and general education requirements stated in the catalog at the time of their return.

1. **Writing: The ability to think critically and to express ideas in lucid precise language; the skills necessary for conducting research, analysis and argument; the ability to write expository and persuasive prose correctly and effectively. Note: This goal must be completed within the student's first year of attendance at the College.**

ENGL 110 Expository Writing

2. **Quantitative: A knowledge of formal logic and a knowledge of mathematics including computation, axiomatic structure and applicability.**

MATH 110 College Mathematics I
 MATH 117 Introduction to Statistics
 MATH 119 Mathematics for the Liberal Arts
 MATH 123 College Algebra
 MATH 200 Precalculus
 MATH 219 Calculus I

3. **Language: A basic knowledge of a language other than one's own, including its cultural context together with at least a minimal ability to read, write, speak, and comprehend.**

MLCH 171 Elementary Chinese I
 MLCH 172 Elementary Chinese II
 MLFR 101 Elementary French I
 MLFR 102 Elementary French II
 MLFR 201 Intermediate French I
 MLFR 202 Intermediate French II
 MLGE 151 Elementary German I
 MLGE 152 Elementary German II
 MLPO 141 Elementary Portuguese I
 MLPO 142 Elementary Portuguese II
 MLSP 131 Elementary Spanish I
 MLSP 132 Elementary Spanish II
 MLSP 231 Intermediate Spanish I
 MLSP 232 Intermediate Spanish II

4. **Literature or Philosophy: A knowledge of a coherent group of important works of literature and understanding of the interaction of historical context, artistic tradition and individual talent;**

OR

An understanding of the development of significant philosophical ideas and systems including applications to ethical issues.

ENGL 111 Approaches To Literature
 ENGL 201 Mythology & Folklore (12)
 ENGL 202 Comparative Mythology (11)
 ENGL 203 Global Perspectives in Literature (11)
 ENGL 220 Shakespeare (12)
 ENGL 232 Irish Literature
 ENGL 243 The American Short Story (12)
 ENGL 245 The American Novel (12)
 ENGL 250 Literature and Gender
 ENGL 260 American Ethnic Literature (12)

ENGL 261	American Writers I (12)
ENGL 262	American Writers II (12)
ENGL 264	African American Literature (12)
ENGL 269	Women Writers
ENGL 271	Development of the Drama
ENGL 277	Contemporary World Literature by Women (12)
INTD 222	Bioethics
PHIL 101	Invitation to Philosophy
PHIL 102	Introduction to Ethics: Why Be Moral? (12)
PHIL 103	Introduction to Logic
PHIL 105	Introduction to Political and Social Philosophy (12)
PHIL 118	Introduction to Philosophy of Science

5. Visual or Performing Arts: A knowledge of a coherent group of important works in music and art, and understanding of the interaction of historical context, artistic tradition and individual talent;

OR

An option to demonstrate knowledge of a language in an area of the performing arts acquired through the development of skills in non-verbal (or verbal) communications.

ARTH 270	History of Art I (11)
ARTH 272	History of Art II
ARTH 273	Modern Art History
ARTH 282	American Art
ARTH 285	The Art of Asia (11)
ARTH 288	Latin American Art (11)
ARTS 110	Introduction to Drawing
ARTS 120	Introduction to Painting
ARTS 160	Introduction to the World of Art
ARTS 167	Introduction to Studio Art
ARTS 200	Art and Social Values (12)
ARTS 241	Ceramics
ARTS 250	Watercolor
COMM 107	Effective Speaking
COMM 130	Introduction to Visual Communication
COMM 201	Oral Interpretation of Literature
COMM 208	Basic Photography
COMM 210	History of Photography
COMM 212	Drama Workshop
ENGL 205	Film History & Criticism
ENGL 207	Language of Film
FASH 223	History of Costume
FASH 278	History of Furniture
INTD 160	Image, Sound, and Structure: An Approach
MUSC 121	Music Appreciation
MUSC 141	American Musics
MUSC 151	History and Literature of Jazz
MUSC 171	World Music Cultures (11)
MUSC 180	Mozart and Mahler
MUSC 203	Opera
MUSC 205	Music of the Romantic Period
MUSC 206	Music of the Twentieth Century
MUSC 209	From Bach to Beethoven
MUSC 210	Beethoven
MUSC 212	Music, Dance, and Ritual in the Pacific (11)
MUSC 220	Women in Music (12)
MUSC 325	History of Rock Music to Art and Music

6. Physical Science: An understanding of the classical and modern principles of physical science, together with a critical appreciation of how scientific knowledge has been constructed, including methods of validating the results of scientific inquiry.

ASTR 251	Introduction to Astronomy
CHEM 101	Chemistry of Life
CHEM 103	General Chemistry (LAB)
CHEM 107	Principles of Chemistry (LAB)
CHEM 108	Principles of Chemistry & Quantitative Analysis (LAB)
CHEM 131	Science - Environment & Health (LAB)
EASC 131	Conversations with the Earth
EASC 241	Introduction to Meteorology
FDSC 151	Principles of Food Science
FDSC 161	Introduction to Food Science & Technology (LAB)
GEOL 231	Physical Geology (LAB)
GEOL 232	Historical Geology (LAB)
GEOL 246	Oceanography
PHSC 109	Introduction to Physical Science (LAB)
PHYS 201	Introductory Physics (LAB)
PHYS 211	Principles of Physics I (LAB)

7. Life Science: An understanding of the classical and modern principles of biological science, together with a critical appreciation of how scientific knowledge has been constructed, including methods of validating the results of scientific inquiry.

BIOL 101	Biological Concepts (LAB)
BIOL 103	Ecological Implications of Conservation
BIOL 112	Biology of Marine Organisms (LAB)
BIOL 114	Human Perspective on Genetics
BIOL 142	Introduction to Human Biology (LAB)
BIOL 200	Introduction to Environmental Science
BIOL 203	Plants and Society
NUTR 205	Nutrition Science and Applications

8. Historical Studies: A knowledge of the history of western cultures including comparative political and economic systems, and taking into account the contributions of groups usually excluded.

HIST 153	Western Civilization to the Renaissance
HIST 154	Western Civilization since the Renaissance (Constitution)
HIST 155	Comparative History of World Civilizations (11)
POSC 212	Political Theory: Age of Ideology

9. Social and Behavioral Science: An understanding of the principles of behavioral and social sciences and/or institutions, together with a critical appreciation of how scientific knowledge has been constructed, including methods of validating the results of scientific inquiry in studying human behavior.

ANTH 161	Cultural Anthropology (11)
ANTH 172	Interpreting the Past: Archaeological
ECON 102	Principles of Microeconomics
GEOG 101	Introduction to Human Geography
GEOG 110	World Regional Geography (11)
GEOG 206	Political Geography (12)
GEOG 211	Cultural Geography
PSYC 101	General Psychology
PSYC 200	Psychology of Development
PSYC 201	Child Psychology
PSYC 212	Adolescent Psychology (12)
PSYC 224	Social Psychology (12)
PSYC 231	Psychology of Adulthood and Aging

PSYC 273	Environmental Psychology
SOCI 101	Introduction to Sociology (12) Perspectives (11)
SOCI 234	Investigating Social Forces in American Society

10. Forces in the United States: An understanding of the various social, political, economic, historical, geographical, or technological forces at work in the United States.

CSCI 135	Information Technology and Society
ECON 101	Principles of Macroeconomics
GEOG 135	Introduction to Environmental Studies
GEOG 180	Native Americans: Geographical & Legal Perspectives
GEOG 235	Environmental Law and Policy
GEOG 250	Geography of the U.S. & Canada
HIST 151	U.S. History to Reconstruction (Constitution)
HIST 152	U.S. History since Reconstruction (Constitution)
POSC 110	Introduction to American Politics (Constitution)
POSC 250	American Legal Systems (Constitution)
SOCI 130	Social Problems (12)
SOCI 230	Law and Society
SOCI 280	Aging in Society
SOCI 282	Society, Technology, and the Future

11. Non-Western Studies: An understanding and appreciation of non-western cultures past and present.

ANTH 161	Cultural Anthropology (9)
ANTH 172	Interpreting the Past: Archaeological Perspectives (9)
ANTH 243	Native American Cultures (12)
ARTH 270	History of Art I (5)
ARTH 285	The Art of Asia (5)
ARTH 288	Latin American Art (5)
ENGL 202	Comparative Mythology (4)
ENGL 203	Global Perspectives in Literature (4)
FASH 253	Cultural Dress
GEOG 110	World Regional Geography (9)
GEOG 222	Geographic Perspectives on Globalization
GEOG 253	Geography of Post Soviet Republics
GEOG 254	Geography of Monsoon Asia
GEOG 255	Geography of Sub-Saharan Africa
GEOG 256	Geography of the Middle East
GEOG 257	Geography of Latin America (12)
GEOG 290	Non-Western Regional Geography: Field Study
HIST 155	Comparative History of World Civilizations
MLLI 110	The Languages of the World
MUSC 171	World Music Cultures (5)
MUSC 212	Music, Dance, and Ritual in the Pacific (5) (8)
POSC 120	Introduction to World Politics
ANTH 253	Gender Across Cultures (12)
SOCI 256	Religion and Ritual

12. Gender, Class, and Race: An understanding of differing experiences and perspectives related to issues of gender, class, and race.

ANTH 243	Native American Cultures (11)
ARTH 200	Art and Social Values (5)
COMM 245	Cultural Aspects of Media Representation
ENGL 201	Mythology & Folklore (4)
ENGL 220	Shakespeare (4)

ENGL 243	The American Short Story (4)
ENGL 245	The American Novel (4)
ENGL 260	American Ethnic Literature (4)
ENGL 261	American Writers I (4)
ENGL 262	American Writers II (4)
ENGL 264	African American Literature (4)
ENGL 277	Contemporary World Literature By Women (4)
GEOG 206	Political Geography (9)
GEOG 225	Population, Food, and Global Development
GEOG 252	Geography of Europe
GEOG 257	Geography of Latin America (11)
MUSC 220	Women in Music (5)
PHIL 102	Introduction to Ethics: Why Be Moral? (4)
PHIL 105	Introduction to Political and Social Philosophy (4)
POSC 216	Film and Politics
PSYC 212	Adolescent Psychology (9)
PSYC 224	Social Psychology (9)
SOCI 101	Introduction to Sociology (9)
SOCI 130	Social Problems (9)
SOCI 212	Sociology of the Family
SOCI 218	Women in Society
SOCI 220	Sport in Society
SOCI 245	Race and Ethnic Relations
ANTH 253	Gender Across Cultures (11)
SOCI 258	Critical Approaches to Men and Masculinities
SOCI 263	Social Inequality

Study of the Constitutions: All students must take one course that includes study of both U.S. and Massachusetts constitutions, to be chosen from among the following courses that satisfy general education goal 8 or 10.

HIST 151	United States History to Reconstruction (10)
HIST 152	United States History since Reconstruction (10)
HIST 154	Western Civilization Since the Renaissance (8)
POSC 110	Introduction to American Politics (10)
POSC 250	American Legal Systems

Laboratory Courses: All students must take one laboratory science, to be chosen from among the following courses that satisfy general education goal 6 or 7.

BIOL 101	Biological Concepts (7)
BIOL 112	Biology of Marine Organisms (7)
BIOL 142	Introduction to Human Biology (7)
CHEM 103	General Chemistry (6)
CHEM 107	Principles of Chemistry (6)
CHEM 108	Principles of Chemistry & Quantitative Analysis (6)
CHEM 131	Science - Environment & Health (6)
FDSC 161	Introduction to Food Science & Technology (6)
GEOL 231	Physical Geology (6)
GEOL 232	Historical Geology (6)
PHSC 109	Introduction to Physical Science (6)
PHYS 201	Introductory Physics (6)

Placement Testing

Each incoming student must take placement examinations in writing, mathematics, and reading, which are administered prior to orientation for new students. Information regarding Placement Testing dates and times may be found at <http://www.framingham.edu/studentaffairs/placement.htm>. Contact the Office of First Year Programs located in the Center for Academic Support and Advising (CASA) for reservations.

Students may also take French and/or Spanish placement examinations. These are administered in the Center for Academic Support and Advising (contact CASA for reservations).

Placement Code Interpretation

Writing

- 1 May not take a college level writing course at Framingham State College.
- 2 Must complete ENGL 100 Introduction to College Writing before enrolling in ENGL 110 Expository Writing.
- 3 May register for ENGL 110 Expository Writing, which meets the College's general education writing requirement. Note: A reading code of 1 is also required to register for ENGL 110.
- 4 Completed ENGL 100
- 5 Transfer coursework accepted

Note: First-Year First-Time students cannot drop ENGL 100 Introduction to College Writing or ENGL 110 Expository Writing unless a completed, including signatures, Course Add/Drop form for another section of the same course is presented to the Office of the Registrar during the first six class days of the semester.

Reading

- 1 Indicates student must retest and is not eligible to enroll in ENGL 110 Expository Writing.
- 2 Indicates student may enroll in ENGL 110 Expository Writing if Writing Placement is equal to 3 or higher.
- 3 Indicates student has completed remedial coursework and may enroll in ENGL 110 Expository Writing.
- 4 Indicates two or more credit bearing courses has been accepted in transfer and student may enroll in ENGL 110 Expository Writing.

Mathematics

- 1 Indicates student may not take a credit-bearing math course at Framingham State College. Student must first complete MATH 095 General Mathematics or similar remedial course at another college.
- 2 Indicates student may enroll in non-algebraic math courses: MATH 110 College Mathematics I (for Coordinate majors in Education), MATH 117 Introduction to Statistics, and MATH 119 Math for the Liberal Arts.
- 3 Indicates remedial coursework equivalent of MATH 095 General Mathematics accepted as transfer coursework and student may take any 100-level math course listed above, as well as MATH 123 College Algebra.
- 4 Indicates student may take any 100-level math course listed above, as well as MATH 123 College Algebra.
- 5 Indicates student may enroll in MATH 200 Precalculus or, after consultation with the Mathematics Department, MATH 219 Calculus I; or any 100-level mathematics course appropriate for the student's major discipline.

Modern Languages

- 0 Indicates student scored between 0 and 49 and may take Elementary I level of a language at Framingham State College.
- 1 Indicates student scored between 50 and 64 and may take Elementary II level of a language at Framingham State College.
- 2 Indicates student scored between 65 and 73 and may take Intermediate I level of a language at Framingham State College.
- 3 Indicates student scored between 74 and 79 and may take Intermediate II level of a language at Framingham State College.
- 4 Indicates student scored between 80 and 100 and may take any 300-level and above of a language at Framingham State College.
- 5 Indicates student has completed Level IV of a language in high school.

Note: Student will be waived from the Goal 2 General Education requirement if a placement score of 1 or higher is achieved. Students majoring in with a placement code of 5 will be waived from the English major requirement of completion of Intermediate II level of a language.

Courses of Study

Framingham State College offers 24 majors, including several interdisciplinary programs. Major, concentration, and minor requirements for specific disciplines are described in the department sections, which follow. The courses listed in each section are currently being offered within departments and programs. Many introductory courses are offered each semester or yearly; some courses are offered in alternate years. To ensure timely completion of requirements, students are encouraged to consult with their faculty advisor or department chair in planning their sequence of courses.

Credit. With the introduction of the course-credit program in 1971-1972, each course is equivalent to four (4) semester hours (sixty (60) contact hours) for internal and external transfer use. Only courses and course-credits accepted in transfer by the College are indicated on the academic record and transcript.

Students in all majors must complete a minimum of thirty-two (32) course credits. At least eleven (11) of these must satisfy the general education requirements (See Page 52). If the major requirements and the general education requirements total fewer than 32 course credits, students must take enough free electives to make up the difference.

Course Subject. Each course offered at the College has a four-character subject code and a three-digit course number, e.g., ENGL 110.

Subject	Subject Code
Art -	
Art History	ARTH
Art Studio	ARTS
Biology -	
	BIOL
Chemistry and Food Science -	
Chemistry	CHEM
Food Science	FDSC
Communication Arts -	
	COMM
Computer Science -	
	CSCI
Consumer Sciences -	
Consumer Science	CONS
Fashion Design	FASH
Nutrition	NUTR
Economics and Business Administration -	
Accounting	ACCT
Business Administration	BADM
Business Information Systems	BUIS
Finance	FINA
Management	MGMT
Marketing	MRKT
Quantitative	QUAN
Education -	
Early Childhood Education	ECED
Education	EDUC
Educational Leadership	EDLE
Elementary Education	ELED
Instructional Technology	INST
Literacy and Language	LTRC
Post Baccalaureate Teacher Licensure	PBTL
English -	
	ENGL
Geography -	
	GEOG
Geology/Earth Science -	
Earth Science	EASC
Geology	GEOL
History -	
	HIST

Interdisciplinary -	INTD
Mathematics -	MATH
Modern Languages -	
Chinese	MLCH
French	MLFR
German	MLGE
Linguistics	MLLI
Portuguese	MLPO
Spanish	MLSP
Music -	MUSC
Nursing -	NURS
Philosophy -	PHIL
Physics -	
Astronomy	ASTR
Physical Science	PHSC
Physics	PHYS
Politics -	POSC
Psychology -	PSYC
Sociology -	
Anthropology	ANTH
Sociology	SOCI

Course Level. The numbers following the subject code indicate the course level:

Code	Course Level
000-099	Non credit courses;
100-199	Courses that are introductory in nature, assuming no prior college level exposure to the discipline;
200-299	Courses appropriate for students with prior exposure to the college regimen or to the discipline, some with prerequisites;
300-399	Upper level courses that build on previous exposure to the discipline, most with prerequisites;
400-499	Senior level courses, most with prerequisites, including independent studies, internships, seminars, directed studies, and practicum.
600-699	Courses for public service undergraduate credit (not for FSC degree programs; exceptions may be made by Major Department Chair).
700-799	Courses for public service and professional development graduate credit (not for FSC degree programs).
800-899	Courses for graduate program credit but taught as dual level with the appropriate undergraduate course number assigned.
900-999	Courses assigned as graduate program credit only.

Course Description. Under each course number and title is a brief description of its content, followed by a statement on prerequisites, if any, explaining the requirements for admission to the course. Courses appropriate for general education are identified by (Gen. Ed. Goal) following the title.

Course Prerequisites. It is the student's responsibility to be aware of and have met prerequisites prior to attempting any course. Course prerequisites may be found in the College Catalog as part of the course description.