COMMON QUESTIONS about Greenfield Community College

Who goes to GCC?
People attend GCC for a variety of reasons. As an “open admission” institution, we welcome everyone, regardless of previous academic record. Our students are mainly from Hampshire and Franklin counties, but a number come to GCC from other areas of Massachusetts, Vermont and New Hampshire, and foreign countries.

Where do I begin at GCC?
By talking to our Admission Director and filling out an application form. Most applicants, but not all, have a high school diploma or high school equivalency diploma. Scholastic Aptitude Tests or entrance exams are not required.
For information on applying to GCC see page 98.

What if I can’t afford to go to college?
Our Financial Aid Office can usually help.
For information about financial aid, see page 108.

What if my grades in high school weren’t very good?
We believe everyone deserves a chance at an education. For those who need it, tutoring and help with study skills is available at our Learning Assistance Center.
For information about our learning assistance programs, see page 124.

What is the difference between transfer and career programs?
Transfer programs are generally designed for the student who wishes to make GCC the first two years of a baccalaureate education. Career programs generally prepare students to enter the workforce directly after graduation, although they, too, can sometimes form the basis of a baccalaureate education.

Are you offering any new programs in 1994-95?
Yes. We have added two new options to our liberal arts program: dance and international studies. We’ve also completely revamped our computer information systems program to make it more hands-on.
For information on academic programs, see pages 6–57.

Can GCC help me with career planning?
Yes. The Learning Assistance Center offers regular workshops on skills assessment and career choices.
For information on career planning, see page 59.

What if I want to continue my education at a baccalaureate degree-awarding college?
Many students have found that spending their first years of college at GCC is an economical and convenient way to start a bachelor’s degree.
For information about transfer, see page 122.

I’d like to transfer to the University of Massachusetts at Amherst or North Adams State College. Will my credits transfer?
Yes. In fact, you can enroll at either UMass or North Adams State when you enroll at GCC. Simply maintain good academic standing and you are guaranteed transfer admission.
For information about transfer agreements, see page 101.

How do I decide which courses to take?
On registration day, you will be assigned an advisor who will help you with such decisions throughout your career at GCC.
For information on advising, see page 113.

I don’t have the time or interest to take a degree program. What can GCC do for me?
Our certificate programs offer you the chance to update your skills or learn new ones in a relatively short period of time. Or you can enroll part-time.
For information on certificate programs, see page 44.

What if I can’t go to school during the day?
We offer a number of courses in the evening and throughout the year.
For information about evening courses and workshops, see page 128.

What do people do for fun at GCC?
Our Student Life office regularly sponsors trips, dances, parties, plays, concerts and other activities.
For information on student activities, see page 126.

It is the policy of Greenfield Community college to prohibit unlawful discrimination on the basis of race, ancestry, color, gender, religion, ethnic or national origin, age, personal disability, veteran status, social class, or sexual and/or affectional preferences/orientation. The College operates under an affirmative action plan and encourages under-represented individuals to apply, both in terms of employment and to all rights, privileges, programs, and activities generally accorded or made available to its students. This policy is in compliance with all applicable federal, state and local statutes, ordinances and regulations. All inquiries concerning the above should be directed to the College’s Affirmative Action Officer.

In accordance with applicable provisions of Chapter 15A of the General Laws all educational programs, college sponsored activities, college tuition, fees, and related charges are subject to change upon approval by the Massachusetts Higher Education Coordinating Council or the Greenfield Community College Board of Trustees.

Printed on recycled paper.
Greenfield Community College

1994 - 1995 CATALOG

ONE COLLEGE DRIVE
GREENFIELD, MASSACHUSETTS 01301
(413) 774-3131
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Located in the Pioneer Valley of western Massachusetts, Greenfield Community College was established in 1962 by visionary citizens who saw how a community college would enhance the quality of life and increase people's opportunities in the region. We offer associate degrees for students planning to transfer to baccalaureate degree-awarding institutions as well as both associate degrees and certificate to prepare students to enter the knowledge-based workforce, especially in those fields most in demand in western Massachusetts.

Thirty-two years ago we enrolled slightly more than 100 students, who attended classes in an old elementary school, a former factory, and a remodeled warehouse in the center of Greenfield. We moved to our current building near the Mohawk Trail (Route 2) and Interstate 91 in 1974. Today, enrollment is the highest in our history, with about 3,000 students attending classes in the day and evening.

The college will re-establish a presence in downtown Greenfield during the second half of the 1994-95 academic year when we are scheduled to begin offering some classes and operating some programs at the former Heritage Bank building at 270 Main Street. The building was purchased in November 1993 by the Greenfield Community College Foundation for use by the college. We also offer evening classes at the Franklin County Technical School in Turners Falls and Smith Agricultural Technical School in Northampton.

We pride ourselves on the quality of our programs as well as our accessibility to all members of the community. Our open admission policy and low tuition make a higher education possible for many who might not otherwise be able to attend college. We welcome students from diverse cultural, ethnic and economic backgrounds and we value the contributions our students make to the community. Our students include both recent high school graduates and senior citizens. Most come from Franklin and Hampshire Counties and southern Vermont and New Hampshire.

Greenfield Community College is one of 29 institutions, including 15 community colleges, that make up the Massachusetts public higher education system. We receive about half of our funding from the state. We are governed locally by a board of trustees appointed by the governor, and at the state level by the Higher Education Coordinating Council. Greenfield Community College is accredited by the New England Association of Schools and Colleges.
Our academic programs enable you to transfer to baccalaureate degree-awarding colleges or prepare you to enter a variety of occupational fields upon completion. Several programs serve both purposes, depending upon the elective courses that you take. We offer associate degree programs, which require at least 60 credits of coursework, and certificate programs, which require up to 35 credits of coursework.

Here is a list of our degree and certificate programs:

**Degree Programs**

**Associate of Arts Degree**
- Liberal Arts
- You may concentrate in one of the following areas—your diploma will read “Liberal Arts”
  - American Studies
  - Applied Commercial Photography
  - Art
  - Classical Humanities
  - Dance
  - Data Processing
  - Education
  - Food Science
  - Human Ecology
  - International Studies
  - Math-Science
  - Natural Resources
  - Pioneer Valley Studies
- Business Administration Transfer

**Associate of Science Degree**
- Accounting
- Art/Fine Art
- Art/Graphic Design
- Art/Media
- Computer Information Systems
- Criminal Justice
- Early Childhood Education
- Engineering Science
- Fire Science Technology
- Industrial Technology
- Management
- Marketing
- Nursing
- Office Administration
- Production Management
- Recreation and Leisure Services

All programs approved by the Board of Trustees of Greenfield Community College.
All degree programs approved by the Massachusetts Higher Education Coordinating Council.


**Certificate Programs**

- Business Microcomputer Applications
- Computer Aided Drafting
- Computer Assisted Bookkeeping
- Early Childhood Education
- Elder Recreational Services
- Emerging Careers
- Office Assistant*
- Outdoor Leadership*
- Advanced Outdoor Leadership
- Physical Fitness
- Pioneer Valley Studies*
- Practical Nursing
- Real Estate
- Re-entry
- Word Processing

*Certificate programs approved by the Massachusetts Higher Education Coordinating Council.
LIBERAL ARTS PROGRAMS
Associate of Arts Degree

Our Liberal Arts programs consist of a broad range of general studies (in the humanities, behavioral and natural sciences, with options to focus on more specialized fields of interest) and lead to the Associate of Arts degree. Many professions, including law, medicine, economics, education, and journalism, require a strong liberal arts background. Our programs are designed to provide a strong foundation in liberal studies that will enable you to transfer* to baccalaureate degree programs at other institutions.

* To learn more about transfer requirements, see pages 102 and 122.

CAREER PROGRAMS
Associate of Science Degree

The Career degree programs consist of specialized education, which may include studies in humanities, behavioral science, and natural science, in addition to studies in specific occupational fields, and lead to the Associate of Science degree. We have designed the programs to prepare you for employment in a variety of career areas, as well as, in many cases, to enable you to transfer to baccalaureate degree programs at other institutions. You should work closely with your academic advisor in selecting your courses and, if you are considering transfer to another school, you should contact our Coordinator of Transfer as early as possible.

Most career programs require some elective coursework in liberal arts. In making your liberal arts course selections, use these guidelines:

- You may satisfy a general elective by completing any credit course offered by the college, except courses with advising codes of D.

- You may satisfy a liberal arts elective by completing any credit course offered by the college with any advising code other than A, X, or D.

- You may satisfy an elective from a specific subject area by completing any credit course with these advising codes:

<table>
<thead>
<tr>
<th>Subject Area</th>
<th>Advising Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Humanities elective</td>
<td>HC or HL</td>
</tr>
<tr>
<td>Behavioral Science elective</td>
<td>BC or BL</td>
</tr>
<tr>
<td>Math/Science elective</td>
<td>NC or NL</td>
</tr>
</tbody>
</table>

*Please note: Some electives in particular career programs are footnoted and specific courses are suggested.*
Liberal Arts

The Degree: Associate of Arts

The Program: provides a broad background in the humanities, behavioral sciences, and natural sciences.

Your Next Step: transfer to a baccalaureate degree-awarding institution.

Core Requirements

<table>
<thead>
<tr>
<th>Course Description</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>English Composition I (ENG 101, 103, or 105)</td>
<td>3</td>
</tr>
<tr>
<td>English Composition II (ENG 112, 114, or 116)</td>
<td>3</td>
</tr>
<tr>
<td>Oral Communication (SPE 101 or 121)</td>
<td>3</td>
</tr>
<tr>
<td>Behavioral Sciences Core:</td>
<td>9</td>
</tr>
<tr>
<td>a) Select two courses from the following: ANT 103 or 104, ECO 101 or 102, HEC 101, POL 101, PSY 101, or SOC 101</td>
<td></td>
</tr>
<tr>
<td>b) Select any additional course coded BC</td>
<td></td>
</tr>
<tr>
<td>Humanities Core:</td>
<td>9</td>
</tr>
<tr>
<td>One three-credit course from each of the following categories:</td>
<td></td>
</tr>
<tr>
<td>a) History—any history course coded HC</td>
<td></td>
</tr>
<tr>
<td>b) Literature (ENG 201, 202, 203, 204, 205, 206, 219, 225, 235, 247, 248, 253)</td>
<td></td>
</tr>
<tr>
<td>c) Any additional course coded HC</td>
<td></td>
</tr>
<tr>
<td>Science/Math Core:</td>
<td>11</td>
</tr>
<tr>
<td>a) Science: two 4-credit BIO, CHE, GEO, PHY, or SCI courses with NC advising codes</td>
<td></td>
</tr>
<tr>
<td>b) Math: MAT course with NC advising code</td>
<td></td>
</tr>
<tr>
<td>Electives (see notes below)</td>
<td>22</td>
</tr>
</tbody>
</table>

TOTAL 60

Electives

- Elective requirements in this program can be satisfied by the successful completion of any course coded A, BC, HC, NC, BL, HL, NL, L, and X.
- No more than 18 credits in any specific subject (such as chemistry, psychology) may be applied toward the degree requirements, except in English. You may apply 18 credits beyond English Composition II to your degree.
- You may apply no more than 12 X-coded credits (including a maximum of 4 credits in Leisure Education) toward the Liberal Arts degree.
Accounting

The Degree: Associate of Science

The Program: prepares you for work at the paraprofessional level in industry, retail, and wholesale enterprises, or public accounting offices.

Your Next Step: work in such entry level positions as accounts payable clerk, junior accountant in a public accounting firm, or full-charge bookkeeper in a service firm.

Required Courses

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACC 111 Basic Accounting I,</td>
<td>3-4</td>
</tr>
<tr>
<td>or ACC 121 Introduction to Accounting I</td>
<td></td>
</tr>
<tr>
<td>ACC 112 Basic Accounting II</td>
<td>3</td>
</tr>
<tr>
<td>ACC 131 Practical Applications of Management Accounting</td>
<td>3</td>
</tr>
<tr>
<td>ACC 207 Financial Accounting Systems and Procedures</td>
<td>3</td>
</tr>
<tr>
<td>ADM 111 Typewriting Development I</td>
<td>3</td>
</tr>
<tr>
<td>ADM 210 Records Management</td>
<td>3</td>
</tr>
<tr>
<td>BUS 105 Mathematics for Business</td>
<td>3</td>
</tr>
<tr>
<td>BUS 107 Introduction to Federal Income Taxes</td>
<td>3</td>
</tr>
<tr>
<td>BUS 111 Introduction to Business</td>
<td>3</td>
</tr>
<tr>
<td>BUS 123 Business Communication</td>
<td>3</td>
</tr>
<tr>
<td>BUS 155 Business Law I</td>
<td>3</td>
</tr>
<tr>
<td>BUS 205 Principles of Management</td>
<td>3</td>
</tr>
<tr>
<td>DAT 114 Microcomputer Software Tools</td>
<td>3</td>
</tr>
<tr>
<td>ENG 101, 103, or 105 English Composition I</td>
<td>3</td>
</tr>
<tr>
<td>ENG 112, 114, or 116 English Composition II</td>
<td>3</td>
</tr>
<tr>
<td>PSY 101 Principles of Psychology</td>
<td>3</td>
</tr>
<tr>
<td>Liberal Arts Electives</td>
<td>12</td>
</tr>
<tr>
<td>Program Elective (any ACC, ADM, BUS, or DAT course)</td>
<td>3</td>
</tr>
</tbody>
</table>

TOTAL 63-64

Program Coordinator:

Dr. Robert J. Welsh
office: N-316

10 Academic Programs
American Studies

The Degree: Associate of Arts in Liberal Arts

The Program: provides a comprehensive overview of American culture for those planning to pursue careers in education, public service, social service, law, advertising, public relations, journalism, library science, and the ministry. The program’s major emphasis is on American literature, history, and government.

Your Next Step: transfer to a baccalaureate degree-awarding institution.

### Required Courses

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENG 101, 103, or 105 English Composition I</td>
<td>3</td>
</tr>
<tr>
<td>ENG 112, 114, or 116 English Composition II</td>
<td>3</td>
</tr>
<tr>
<td>ENG 203 American Literature I</td>
<td>3</td>
</tr>
<tr>
<td>ENG 204 American Literature II</td>
<td>3</td>
</tr>
<tr>
<td>HIS 105 History of the American People to 1865</td>
<td>3</td>
</tr>
<tr>
<td>HIS 106 History of the American People since 1865</td>
<td>3</td>
</tr>
<tr>
<td>POL 101 American Politics</td>
<td>3</td>
</tr>
<tr>
<td>SPE 101 Oral Communication: Public Speaking, or SPE 121 Oral Communication: Small Group Discussion</td>
<td>3</td>
</tr>
</tbody>
</table>

### Behavioral Sciences Core:

- a) Select one course from the following: ANT 103 or 104, ECO 101 or 102, HEC 101, PSY 101, or SOC 101
- b) Select any additional course coded BC

### Science/Math Core:

- a) Science: two 4-credit BIO, CHE, GEO, PHY, or SCI courses with NC advising codes
- b) Math: MAT course with NC advising code

### General Electives

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENG 219 Ethnic Literature</td>
<td>3</td>
</tr>
<tr>
<td>ENG 253 Valley American Literature</td>
<td>3</td>
</tr>
<tr>
<td>GEO 103 Valley Geology</td>
<td>3</td>
</tr>
<tr>
<td>HIS 217 Valley/American Ethnic Experience</td>
<td>3</td>
</tr>
<tr>
<td>MUS 102 The American Experience in Music</td>
<td>3</td>
</tr>
<tr>
<td>POL 203 American Civil Liberties</td>
<td>3</td>
</tr>
<tr>
<td>POL 205 American Foreign Policy</td>
<td>3</td>
</tr>
<tr>
<td>THE 125 The American Musical Theater</td>
<td>3</td>
</tr>
<tr>
<td>Appropriate Directed Study (295 or 296)</td>
<td></td>
</tr>
</tbody>
</table>

**TOTAL 60**

### American Studies Electives

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENG 219 Ethnic Literature</td>
<td>3</td>
</tr>
<tr>
<td>ENG 253 Valley American Literature</td>
<td>3</td>
</tr>
<tr>
<td>GEO 103 Valley Geology</td>
<td>3</td>
</tr>
<tr>
<td>HIS 217 Valley/American Ethnic Experience</td>
<td>3</td>
</tr>
<tr>
<td>MUS 102 The American Experience in Music</td>
<td>3</td>
</tr>
<tr>
<td>POL 203 American Civil Liberties</td>
<td>3</td>
</tr>
<tr>
<td>POL 205 American Foreign Policy</td>
<td>3</td>
</tr>
<tr>
<td>THE 125 The American Musical Theater</td>
<td>3</td>
</tr>
<tr>
<td>Appropriate Directed Study (295 or 296)</td>
<td></td>
</tr>
</tbody>
</table>

Program Coordinator: Dr. Joan S. Ibish

* See Liberal Arts Program (p. 9) for specific requirements.
ART PROGRAMS

The Art Programs provide a strong foundation in the visual arts. A student may choose to study in any of the following majors:

- Fine Art
- Graphic Design
- Media
- Liberal Arts/Art
- Applied Commercial Photography
ART/Fine Art

The Degree: Associate of Science

The Program: provides a strong foundation in drawing and design, with emphasis on the concepts, techniques, and discipline of fine art. You are required to take courses in liberal arts and art history; you may choose an elective emphasis in painting, printmaking, photography, or graphic design.

Your Next Step: transfer to a baccalaureate degree-awarding college or professional institution. Your future career may lie in the area of creative art, art education, arts administration, or illustration.

<table>
<thead>
<tr>
<th>Required Courses</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 103 Art History I</td>
<td>3</td>
</tr>
<tr>
<td>ART 104 Art History II</td>
<td>3</td>
</tr>
<tr>
<td>ART 118 Fundamentals of Drawing: Perspective</td>
<td>3</td>
</tr>
<tr>
<td>ART 119 Fundamentals of Drawing: Anatomy and Structure</td>
<td>3</td>
</tr>
<tr>
<td>ART 121 Two-Dimensional Design</td>
<td>3</td>
</tr>
<tr>
<td>ART 122 Design and Color</td>
<td>3</td>
</tr>
<tr>
<td>ART 131 Drawing I</td>
<td>3</td>
</tr>
<tr>
<td>ART 132 Drawing II</td>
<td>3</td>
</tr>
<tr>
<td>ART 231 Figure Drawing</td>
<td>3</td>
</tr>
<tr>
<td>ART 232 Drawing Problems</td>
<td>3</td>
</tr>
<tr>
<td>ENG 101, 103, or 105 English Composition I</td>
<td>3</td>
</tr>
<tr>
<td>ENG 112, 114, or 116 English Composition II</td>
<td>3</td>
</tr>
<tr>
<td>Behavioral Sciences Elective</td>
<td>3</td>
</tr>
<tr>
<td>Humanities Elective*, or Math/Science Elective</td>
<td>3</td>
</tr>
<tr>
<td>General Elective*</td>
<td>3</td>
</tr>
<tr>
<td>Liberal Arts Electives*</td>
<td>3</td>
</tr>
<tr>
<td>Art Studio Electives (from the list below)</td>
<td>12</td>
</tr>
<tr>
<td>TOTAL 63</td>
<td></td>
</tr>
</tbody>
</table>

Art Studio Electives—at least 6 credits must be at the 200 level, may include no more than 6 credits of 290 courses

| ART 241 Painting I                                    | 3       |
| ART 242 Painting II                                   | 3       |
| ART 251 Photography I-A                               | 3       |
| ART 252 Photography I-B                               | 3       |
| ART 255 Video I-A                                     | 3       |
| ART 256 Video I-B                                     | 3       |
| ART 257 Advanced Media Studio                         | 3       |
| ART 271 Graphic Design I                              | 3       |
| ART 272 Graphic Design II                             | 3       |
| ART 293, 294 Internship in Art                        | 1-3     |
| ART 295, 296 Directed Study in Art                    | 1-3     |

Program Coordinator: T. Budge Hyde
office: S-217

* Art studio electives may not be used as General, Liberal Arts, or Humanities electives.
ART/Graphic Design

The Degree: Associate of Science
The Program: develops the conceptual and technical skills of visual communication. Emphasizes a strong foundation in design and drawing with required courses in liberal arts and art history.

Your Next Step: transfer to a baccalaureate degree-awarding college or professional institution, or seek entry level employment in graphic design. Your future career may lie in a design profession, marketing, advertising, or publication and printing.

Required Courses

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 103 Art History I</td>
<td>3</td>
</tr>
<tr>
<td>ART 104 Art History II</td>
<td>3</td>
</tr>
<tr>
<td>ART 118 Fundamentals of Drawing: Perspective, or ART 119 Fund. of Drawing: Anatomy and Structure</td>
<td>3</td>
</tr>
<tr>
<td>ART 121 Two-Dimensional Design</td>
<td>3</td>
</tr>
<tr>
<td>ART 122 Design and Color</td>
<td>3</td>
</tr>
<tr>
<td>ART 131 Drawing I</td>
<td>3</td>
</tr>
<tr>
<td>ART 132 Drawing II</td>
<td>3</td>
</tr>
<tr>
<td>ART 161 Electronic Studio I</td>
<td>3</td>
</tr>
<tr>
<td>ART 271 Graphic Design I</td>
<td>3</td>
</tr>
<tr>
<td>ART 272 Graphic Design II</td>
<td>3</td>
</tr>
<tr>
<td>ENG 101, 103, or 105 English Composition I</td>
<td>3</td>
</tr>
<tr>
<td>ENG 112, 114, or 116 English Composition II</td>
<td>3</td>
</tr>
<tr>
<td>Behavioral Sciences Elective</td>
<td>3</td>
</tr>
<tr>
<td>Humanities Elective*, or Math/Science Elective</td>
<td>3</td>
</tr>
<tr>
<td>General Elective*</td>
<td>3</td>
</tr>
<tr>
<td>Liberal Arts Electives*</td>
<td>6</td>
</tr>
<tr>
<td>Art Studio Electives (from the list below)</td>
<td>12</td>
</tr>
</tbody>
</table>

TOTAL 63

Art Studio Electives—at least 6 credits must be at the 200 level, may include no more than 6 credits of 290 courses.

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 118 Fund. of Drawing: Perspective</td>
<td>3</td>
</tr>
<tr>
<td>ART 241 Painting I</td>
<td>3</td>
</tr>
<tr>
<td>ART 242 Painting II</td>
<td>3</td>
</tr>
<tr>
<td>ART 251 Photography I-A</td>
<td>3</td>
</tr>
<tr>
<td>ART 252 Photography I-B</td>
<td>3</td>
</tr>
<tr>
<td>ART 255 Video I-A</td>
<td>3</td>
</tr>
<tr>
<td>ART 256 Video I-B</td>
<td>3</td>
</tr>
<tr>
<td>ART 257 Advanced Media Studio</td>
<td>3</td>
</tr>
<tr>
<td>ART 293, 294 Internship in Art</td>
<td>1-3</td>
</tr>
<tr>
<td>ART 295, 296 Directed Study in Art</td>
<td>1-3</td>
</tr>
</tbody>
</table>

Program Coordinator: T. Budge Hyde
Office: S-217

* Art studio electives may not be used as General, Liberal Arts, or Humanities electives.

14 Academic Programs
ART/Media

The Degree: Associate of Science

The Program: focuses on the development of the critical, visual, and technical skills of video and photography. Includes foundation experiences in basic design, and required courses in liberal arts and art history.

Your Next Step: transfer to a baccalaureate degree-awarding college or professional institution. Your future career may include work in video, photography, electronic imaging, or in other fields requiring a background in the visual arts.

**Required Courses**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 103</td>
<td>Art History I</td>
<td>3</td>
</tr>
<tr>
<td>ART 104</td>
<td>Art History II</td>
<td>3</td>
</tr>
<tr>
<td>ART 121</td>
<td>Two-Dimensional Design</td>
<td>3</td>
</tr>
<tr>
<td>ART 122</td>
<td>Design and Color</td>
<td>3</td>
</tr>
<tr>
<td>ART 131</td>
<td>Drawing I</td>
<td>3</td>
</tr>
<tr>
<td>ART 151</td>
<td>Introduction to Photography</td>
<td>3</td>
</tr>
<tr>
<td>ART 155</td>
<td>Introduction to Video</td>
<td>3</td>
</tr>
<tr>
<td>ART 161</td>
<td>Electronic Studio I</td>
<td>3</td>
</tr>
<tr>
<td>ART 251</td>
<td>Photography I-A</td>
<td>3</td>
</tr>
<tr>
<td>ART 255</td>
<td>Video I-A</td>
<td>3</td>
</tr>
<tr>
<td>ENG 101, 103, or 105</td>
<td>English Composition I</td>
<td>3</td>
</tr>
<tr>
<td>ENG 112, 114, or 116</td>
<td>English Composition II</td>
<td>3</td>
</tr>
<tr>
<td>Behavioral Sciences Elective</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Humanities Elective*, or Math/Science Elective</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>General Elective*</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Liberal Arts Electives*</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Studio Electives (from the list below)</td>
<td>6</td>
<td></td>
</tr>
</tbody>
</table>

**TOTAL 63**

**Studio Electives**—at least 6 credits must be at the 200 level; may include no more than 6 credits of 290 courses

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 118</td>
<td>Fund. of Drawing: Perspective</td>
<td>3</td>
</tr>
<tr>
<td>ART 119</td>
<td>Fund. of Drawing: Anatomy</td>
<td>3</td>
</tr>
<tr>
<td>ART 132</td>
<td>Drawing II</td>
<td>3</td>
</tr>
<tr>
<td>ART 162</td>
<td>Electronic Studio II</td>
<td>3</td>
</tr>
<tr>
<td>ART 231</td>
<td>Figure Drawing</td>
<td>3</td>
</tr>
<tr>
<td>ART 232</td>
<td>Drawing Problems</td>
<td>3</td>
</tr>
<tr>
<td>ART 233</td>
<td>Printmaking I</td>
<td>3</td>
</tr>
<tr>
<td>ART 234</td>
<td>Printmaking II</td>
<td>3</td>
</tr>
<tr>
<td>ART 241</td>
<td>Painting I</td>
<td>3</td>
</tr>
<tr>
<td>ART 242</td>
<td>Painting II</td>
<td>3</td>
</tr>
<tr>
<td>ART 252</td>
<td>Photography I-B</td>
<td>3</td>
</tr>
<tr>
<td>ART 256</td>
<td>Video I-B</td>
<td>3</td>
</tr>
<tr>
<td>ART 257</td>
<td>Advanced Media Studio</td>
<td>3</td>
</tr>
<tr>
<td>ART 271</td>
<td>Graphic Design I</td>
<td>3</td>
</tr>
<tr>
<td>ART 272</td>
<td>Graphic Design II</td>
<td>3</td>
</tr>
<tr>
<td>ART 293, 294</td>
<td>Internship in Art</td>
<td>1-3</td>
</tr>
<tr>
<td>ART 295, 296</td>
<td>Directed Study in Art</td>
<td>1-3</td>
</tr>
</tbody>
</table>

Program Coordinator: T. Budge Hyde
office: S-217

* Art studio electives may not be used as General, Liberal Arts, or Humanities electives.
**ART/Liberal Arts**

**The Degree:** Associate of Arts in Liberal Arts

**The Program:** provides a broad range of liberal arts studies with an elective emphasis on art.

**Your Next Step:** transfer to a baccalaureate degree-awarding institution. Future careers may include art therapy, primary or secondary education, museum, or gallery work.

---

### Required Courses

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 103 Art History I, or ART 104 Art History II, or ART 107 History of Modern Art</td>
<td>3</td>
</tr>
<tr>
<td>ENG 101, 103, or 105 English Composition I</td>
<td>3</td>
</tr>
<tr>
<td>ENG 112, 114, or 116 English Composition II</td>
<td>3</td>
</tr>
<tr>
<td>SPE 101 Oral Communication: Public Speaking, or SPE 121 Oral Communication: Small Group Discussion</td>
<td>3</td>
</tr>
</tbody>
</table>

**Behavioral Sciences Core:**

- a) Select two courses from the following: ANT 103 or 104, ECO 101 or 102, HEC 101, POL 101, PSY 101, or SOC 101
- b) Select any additional course coded BC

**Humanities Core:**

- One three-credit course from each of the following categories:
  - a) History—any history course coded HC
  - b) Literature (ENG 201, 202, 203, 204, 205, 206, 219, 225, 235, 247, 248, 253)

**Science/Math Core:**

- a) Science: two 4-credit BIO, CHE, GEO, PHY, or SCI courses with NC advising codes
- b) Math: MAT course with NC advising code

*Electives* 10

Art Studio Electives (from the list below) 12

<table>
<thead>
<tr>
<th>Group A</th>
<th>Group B</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 121 Two-Dimensional Design</td>
<td>ART 118 Fund. of Drawing: Perspective</td>
</tr>
<tr>
<td>ART 131 Drawing I</td>
<td>ART 119 Fund. of Drawing: Anatomy</td>
</tr>
<tr>
<td>ART 151 Introduction to Photography</td>
<td>ART 122 Design and Color</td>
</tr>
<tr>
<td><strong>Group B</strong></td>
<td>ART 132 Drawing II</td>
</tr>
<tr>
<td>ART 155 Introduction to Video</td>
<td>ART 155 Introduction to Video</td>
</tr>
<tr>
<td>ART 161 Electronic Studio I</td>
<td>ART 251 Photography I-A</td>
</tr>
</tbody>
</table>

**TOTAL 60**

---

*See Liberal Arts program (p. 9) for specific requirements.*
ART/Applied Commercial Photography

The Degree: Associate of Arts in Liberal Arts

The Program: enables graduates of the Hallmark Institute of Photography, in Turners Falls, to get credit for their studies at the Institute towards an A.A. degree from GCC. The program provides a broad range of general studies in the Behavioral Sciences, the Natural Sciences, and the Humanities with an emphasis on art and photography.

Your Next Step: to enter the world of professional photography as a photographic business owner, manager, or secure an entry level position with an existing photographic concern, or transfer to a baccalaureate degree-awarding institution or professional institution.

Required Courses

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 103 Art History I, or ART 104 ART History II</td>
<td>3</td>
</tr>
<tr>
<td>§ART 151 Introduction to Photography</td>
<td>3</td>
</tr>
<tr>
<td>†ACP 101 Applied Commercial Photography</td>
<td>12</td>
</tr>
<tr>
<td>ENG 101, 103, or 105 English Composition I</td>
<td>3</td>
</tr>
<tr>
<td>ENG 112, 114, or 116 English Composition II</td>
<td>3</td>
</tr>
<tr>
<td>SPE 101 Oral Communication: Public Speaking, or SPE 121 Oral Communication: Small Group Discussion</td>
<td>3</td>
</tr>
<tr>
<td>Behavioral Sciences Core:</td>
<td>9</td>
</tr>
<tr>
<td>a) Select two courses from the following: ANT 103 or 104, ECO 101 or 102, HEC 101, POL 101, PSY 101, or SOC 101</td>
<td></td>
</tr>
<tr>
<td>b) Select any additional course coded BC</td>
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</tr>
<tr>
<td>Humanities Core:</td>
<td>6</td>
</tr>
<tr>
<td>One three-credit course from each of the following categories:</td>
<td></td>
</tr>
<tr>
<td>a) History—any history course coded HC</td>
<td></td>
</tr>
<tr>
<td>b) Literature (ENG 201, 202, 203, 204, 205, 206, 219, 225, 235, 247, 248, 253)</td>
<td></td>
</tr>
<tr>
<td>Science/Math Core:</td>
<td>11</td>
</tr>
<tr>
<td>a) Science: two 4-credit BIO, CHE, GEO, PHY, or SCI courses with NC advising codes</td>
<td></td>
</tr>
<tr>
<td>b) Math: MAT course with NC advising code</td>
<td></td>
</tr>
<tr>
<td>Art Electives</td>
<td>12</td>
</tr>
</tbody>
</table>

TOTAL 65

Art Electives:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 121 Two-Dimensional Design</td>
<td>3</td>
</tr>
<tr>
<td>ART 122 Design and Color</td>
<td>3</td>
</tr>
<tr>
<td>ART 251 Photography IA</td>
<td>3</td>
</tr>
<tr>
<td>ART 252 Photography IB</td>
<td>3</td>
</tr>
<tr>
<td>ART 295 Directed Study</td>
<td>1-3</td>
</tr>
<tr>
<td>ART 296 Directed Study</td>
<td>1-3</td>
</tr>
</tbody>
</table>

Program Coordinator:

T. Budge Hyde
office: S-217

† To be awarded after successful completion of 15 credits at GCC

§ By transfer from Hallmark Institute after successful completion of 15 credits at GCC
Business Administration Transfer

The Degree: Associate of Arts

The Program: provides the necessary courses for transfer to baccalaureate degree-awarding business administration programs. The program has a core of business administration courses combined with courses in liberal arts with an emphasis on mathematics. By using electives, you may complete the program of study typically offered in the first two years of a baccalaureate degree-awarding institution.

Your Next Step: transfer to a baccalaureate degree-awarding institution or university.

### Required Courses

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACC 121 Introduction to Accounting I</td>
<td>4</td>
</tr>
<tr>
<td>ACC 122 Introduction to Accounting II</td>
<td>4</td>
</tr>
<tr>
<td>ACC 203 Managerial Accounting</td>
<td>3</td>
</tr>
<tr>
<td>ADM 106 Keyboarding for Information Processing</td>
<td>1</td>
</tr>
<tr>
<td>BUS 111 Introduction to Business</td>
<td>3</td>
</tr>
<tr>
<td>BUS 205 Principles of Management</td>
<td>3</td>
</tr>
<tr>
<td>DAT 113 Introduction to Business Information Systems</td>
<td>3</td>
</tr>
<tr>
<td>DAT 114 Microcomputer Software Tools, or DAT 129 Applications of Lotus 1-2-3</td>
<td>1</td>
</tr>
<tr>
<td>ECO 101 Principles of Macroeconomics</td>
<td>3</td>
</tr>
<tr>
<td>ECO 102 Principles of Microeconomics</td>
<td>3</td>
</tr>
<tr>
<td>ENG 101, 103, or 105 English Composition I</td>
<td>3</td>
</tr>
<tr>
<td>ENG 112, 114, or 116 English Composition II</td>
<td>3</td>
</tr>
<tr>
<td>PSY 101 Principles of Psychology</td>
<td>3</td>
</tr>
<tr>
<td>Humanities Core:</td>
<td>9</td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td>One three-credit course from each of the following categories:</td>
<td></td>
</tr>
<tr>
<td>- a) History—any history course coded HC</td>
<td></td>
</tr>
<tr>
<td>- b) Literature (ENG 201, 202, 203, 204, 205, 206, 219, 225, 235, 247, 248, 253)</td>
<td></td>
</tr>
<tr>
<td>- c) Any additional course coded HC</td>
<td></td>
</tr>
<tr>
<td>Science/Math Core:</td>
<td>11</td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td>a) Science: two 4-credit BIO, CHE, GEO, PHY, or SCI courses with NC advising codes</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td>b) Math: MAT course with NC advising code†</td>
<td></td>
</tr>
<tr>
<td>Program elective</td>
<td></td>
</tr>
<tr>
<td>or MAT 151 Applied Calculus I, or MAT 152 Applied Calculus II</td>
<td>3</td>
</tr>
<tr>
<td>*Liberal Arts Elective</td>
<td>3</td>
</tr>
</tbody>
</table>

**TOTAL 63**

Program Coordinator: Dr. Robert J. Welsh  
office: N-316

* See Liberal Arts Program (p. 9) for specific requirements.

† Math courses to be chosen after consultation with faculty advisor and in consideration of the requirements of the transfer institution. A number of the transfer schools require MAT 151 and 152 (Applied Calculus I and II).
Classical Humanities

The Degree: Associate of Arts in Liberal Arts
The Program: parallels the typical course of study in the first two years of a baccalaureate degree-awarding liberal arts college.
Your Next Step: transfer to a baccalaureate degree-awarding institution.

Required Courses

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENG 101, 103, or 105 English Composition I</td>
<td>3</td>
</tr>
<tr>
<td>ENG 112, 114, or 116 English Composition II</td>
<td>3</td>
</tr>
<tr>
<td>(Recommended: ENG 112)</td>
<td></td>
</tr>
<tr>
<td>ENG 201 Western Literature I</td>
<td>3</td>
</tr>
<tr>
<td>ENG 202 Western Literature II</td>
<td>3</td>
</tr>
<tr>
<td>HIS 101 Western Civilization to 1500 A.D.</td>
<td>3</td>
</tr>
<tr>
<td>HIS 102 Western Civilization since 1500 A.D.</td>
<td>3</td>
</tr>
<tr>
<td>HUM 201 Humanities in the Western World I</td>
<td>3</td>
</tr>
<tr>
<td>HUM 202 Humanities in the Western World II</td>
<td>3</td>
</tr>
<tr>
<td>SPE 101 Oral Communication: Public Speaking, or SPE 121 Oral Communication: Small Group Discussion</td>
<td>3</td>
</tr>
</tbody>
</table>

Behavioral Sciences Core: 9

- Select two courses from the following: ANT 103 or 104, ECO 101 or 102, HEC 101, POL 101, PSY 101, or SOC 101
- Select any additional course coded BC

Science/Math Core: 11

- Science: two 4-credit BIO, CHE, GEO, PHY, or SCI courses with NC advising codes
- Math: MAT course with NC advising code

Classical Humanities Electives: 13

Classical Humanities Electives—two or more from each group below

<table>
<thead>
<tr>
<th>Group I:</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 103 Art History I</td>
<td>3</td>
</tr>
<tr>
<td>ART 104 Art History II</td>
<td>3</td>
</tr>
<tr>
<td>MUS 101 An Introduction to Music</td>
<td>3</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Group II:</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHI 101 Logic and Scientific Method</td>
<td>3</td>
</tr>
<tr>
<td>PHI 103 Introduction to Philosophy</td>
<td>3</td>
</tr>
<tr>
<td>POL 103 Comparative Politics</td>
<td>3</td>
</tr>
<tr>
<td>Foreign Languages</td>
<td></td>
</tr>
</tbody>
</table>

Program Coordinator: Dr. Joan S. Ibish  
office: S-321
Computer Information Systems

The Degree: Associate of Science

The Program: is designed for students who plan to transfer to a baccalaureate degree-awarding institution with a major in computer information systems. Coursework is consistent with the first two years of the model curriculum for Computer Information Systems, as proposed by the Data Processing Managers Association.

Your Next Step: transfer to a baccalaureate degree-awarding institution or work as an entry-level programmer, information center employee, computer operator, sales engineer, or consultant.

<table>
<thead>
<tr>
<th>Required Courses</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACC 111 Basic Accounting I</td>
<td>3</td>
</tr>
<tr>
<td>ACC 112 Basic Accounting II</td>
<td>3</td>
</tr>
<tr>
<td>ACC 131 Practical Applications of Management Accounting</td>
<td>3</td>
</tr>
<tr>
<td>ADM 106 Keyboarding for Information Processing</td>
<td>1</td>
</tr>
<tr>
<td>BUS 111 Introduction to Business</td>
<td>3</td>
</tr>
<tr>
<td>DAT 113 Introduction to Business Information Systems</td>
<td>3</td>
</tr>
<tr>
<td>DAT 114 Microcomputer Software Tools</td>
<td>3</td>
</tr>
<tr>
<td>DAT 115 Programming Principles and Concepts</td>
<td>3</td>
</tr>
<tr>
<td>DAT 116 Microcomputer Operating Systems</td>
<td>3</td>
</tr>
<tr>
<td>DAT 117 Computer Networking and Telecommunications</td>
<td>3</td>
</tr>
<tr>
<td>DAT 118 Microcomputer Software Tools II</td>
<td>3</td>
</tr>
<tr>
<td>DAT 149 Database Programming and Procedures I</td>
<td>3</td>
</tr>
<tr>
<td>DAT 150 Database Programming and Procedures II</td>
<td>3</td>
</tr>
<tr>
<td>ECO 101 Principles of Macroeconomics, or ECO 102 Principles of Microeconomics</td>
<td>3</td>
</tr>
<tr>
<td>ENG 101, 103, or 105 English Composition I</td>
<td>3</td>
</tr>
<tr>
<td>ENG 112, 114, or 116 English Composition II</td>
<td>3</td>
</tr>
<tr>
<td>ENG 123 Report Writing</td>
<td>3</td>
</tr>
<tr>
<td>MAT 117 Mathematical Problem Solving</td>
<td>3</td>
</tr>
<tr>
<td>PSY 101 Principles of Psychology, or SOC 101 Principles of Sociology</td>
<td>3</td>
</tr>
<tr>
<td>*Liberal Arts Electives</td>
<td>6</td>
</tr>
<tr>
<td>ACC, BUS, or DAT Elective</td>
<td>3</td>
</tr>
</tbody>
</table>

TOTAL 64

Program Coordinator: Dr. Robert J. Welsh
office: N-316

* To be chosen in consultation with the faculty advisor and in consideration of the requirements of the transfer institution.
# Criminal Justice

**The Degree:** Associate of Science  
**The Program:** provides a broad education in the administration, operations and objectives of the criminal justice system and its component parts: police, courts, and corrections.  
**Your Next Step:** transfer into a baccalaureate degree-awarding program or enter into any of several careers within the criminal justice system, including police work, correctional work, the law, or social work.

## Required Courses

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CRJ 101</td>
<td>Introduction to Criminal Justice</td>
<td>3</td>
</tr>
<tr>
<td>CRJ 103</td>
<td>Criminal Law</td>
<td>3</td>
</tr>
<tr>
<td>CRJ 105</td>
<td>Police Process</td>
<td>3</td>
</tr>
<tr>
<td>CRJ 107</td>
<td>Adjudication Process</td>
<td>3</td>
</tr>
<tr>
<td>CRJ 109</td>
<td>Corrections Process</td>
<td>3</td>
</tr>
<tr>
<td>CRJ 121</td>
<td>Criminology</td>
<td>3</td>
</tr>
<tr>
<td>ENG 101, 103, or 105</td>
<td>English Composition I</td>
<td>3</td>
</tr>
<tr>
<td>ENG 112, 114, or 116</td>
<td>English Composition II, or ENG 123 Report Writing</td>
<td>3</td>
</tr>
<tr>
<td>POL 101</td>
<td>American Government</td>
<td>3</td>
</tr>
<tr>
<td>PSY 101</td>
<td>Principles of Psychology</td>
<td>3</td>
</tr>
<tr>
<td>SOC 101</td>
<td>Principles of Sociology</td>
<td>3</td>
</tr>
<tr>
<td>SOC 201</td>
<td>Social Problems</td>
<td>3</td>
</tr>
<tr>
<td>SPE 101</td>
<td>Oral Communication: Public Speaking, or SPE 121 Oral Communication: Group Discussion</td>
<td>3</td>
</tr>
<tr>
<td><em>General Elective</em></td>
<td></td>
<td>6</td>
</tr>
<tr>
<td><em>Natural Science/Humanities Electives</em></td>
<td></td>
<td>9</td>
</tr>
<tr>
<td>Criminal Justice Electives</td>
<td></td>
<td>6</td>
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</tbody>
</table>

**TOTAL 60**

## Criminal Justice Electives

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CRJ 113</td>
<td>Juvenile Justice Process</td>
<td>3</td>
</tr>
<tr>
<td>CRJ 203</td>
<td>Criminal Investigation</td>
<td>3</td>
</tr>
<tr>
<td>CRJ 211</td>
<td>Current Issues in Criminal Justice</td>
<td>3</td>
</tr>
<tr>
<td>†CRJ 215</td>
<td>Field Experience Practicum</td>
<td>3</td>
</tr>
<tr>
<td>CRJ 217</td>
<td>White Collar Organized Crime</td>
<td>3</td>
</tr>
<tr>
<td>CRJ 219</td>
<td>Issues in Constitutional Law</td>
<td>3</td>
</tr>
<tr>
<td>CRJ 221</td>
<td>Interpersonal Communications in Criminal Justice</td>
<td>3</td>
</tr>
</tbody>
</table>

**Program Coordinator:** Gerard J. Richard  
**Office:** N-230

* Students who wish to take advantage of the Commonwealth Transfer Compact will have to select their electives with those requirements in mind.  
† Select with the assistance of the program advisors.
The Degree: Associate of Arts in Liberal Arts

The Program: provides a broad range of liberal arts studies with an elective emphasis on dance. Future careers may include performance, choreography, dance education, or dance therapy.

Your Next Step: transfer to a baccalaureate degree-awarding institution

### Required Courses

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>DAN 120 Dance in Culture</td>
<td>3</td>
</tr>
<tr>
<td>DAN 121 Dance History</td>
<td>3</td>
</tr>
<tr>
<td>DAN 130 Choreography/Performance</td>
<td>3</td>
</tr>
<tr>
<td>ENG 101, 103, or 105 English Composition I</td>
<td>3</td>
</tr>
<tr>
<td>ENG 112, 114, or 116 English Composition II</td>
<td>3</td>
</tr>
<tr>
<td>SPE 101 Oral Communication: Public Speaking, or SPE 121 Oral Communication: Small Group Discussion</td>
<td>3</td>
</tr>
</tbody>
</table>

#### Behavioral Sciences Core: 9

- a) Select two courses from the following: ANT 103 or 104, ECO 101 or 102, HEC 101, POL 101, PSY 101, or SOC 101
- b) Select any additional course coded BC

#### Humanities Core: 6

- One three-credit course from each of the following categories:
  - a) History—any history course coded HC
  - b) Literature (ENG 201, 202, 203, 204, 205, 206, 219, 225, 235, 247, 248, 253)

#### Science/Math Core: 11

- a) Science: two 4-credit BIO, CHE, GEO, PHY, or SCI courses with NC advising codes
- b) Math: MAT course with NC advising code

*Liberal Arts electives 9
Dance electives 9

**TOTAL 62**

### Dance Electives

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>DAN 101 Introduction to Dance</td>
<td>3</td>
</tr>
<tr>
<td>DAN 103 Jazz Dance I</td>
<td>3</td>
</tr>
<tr>
<td>DAN 104 Jazz Dance II</td>
<td>3</td>
</tr>
<tr>
<td>DAN 105 African Dance A</td>
<td>3</td>
</tr>
<tr>
<td>DAN 106 African Dance B</td>
<td>3</td>
</tr>
<tr>
<td>DAN 107 Ballet I-A</td>
<td>3</td>
</tr>
<tr>
<td>DAN 108 Ballet I-B</td>
<td>3</td>
</tr>
<tr>
<td>DAN 111 Modern Dance I-A</td>
<td>3</td>
</tr>
<tr>
<td>DAN 112 Modern Dance I-B</td>
<td>3</td>
</tr>
<tr>
<td>DAN 114 Tap Dance I</td>
<td>3</td>
</tr>
<tr>
<td>DAN 115 Tap Dance II</td>
<td>3</td>
</tr>
<tr>
<td>DAN 119 Dance Production Workshop</td>
<td>1</td>
</tr>
</tbody>
</table>

Program Coordinator: Dr. Joan S. Ibish
Office: S-321

*See Liberal Arts Program (p. 9) for specific requirements.*
# Data Processing

**The Degree:** Associate of Arts in Liberal Arts  
**The Program:** provides strong general education and background in liberal arts as well as a basic knowledge of computers and programming.  
**Your Next Step:** transfer to a baccalaureate degree-awarding institution.

## Required Courses

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ADM 106</td>
<td>Keyboarding for Information Processing</td>
<td>1</td>
</tr>
<tr>
<td>DAT 111</td>
<td>Introduction to Computers, or DAT 113</td>
<td>3</td>
</tr>
<tr>
<td>DAT 115</td>
<td>Programming Principles and Concepts</td>
<td>3</td>
</tr>
<tr>
<td>DAT 141</td>
<td>Programming in BASIC, or DAT 143 Introduction to ANSI COBOL, or DAT 147 Pascal Programming, or DAT 148 C Programming for Programmers</td>
<td>3</td>
</tr>
<tr>
<td>DAT Electives</td>
<td>(chosen from available courses)</td>
<td>3</td>
</tr>
<tr>
<td>ENG 101, 103, or 105</td>
<td>English Composition I</td>
<td>3</td>
</tr>
<tr>
<td>ENG 112, 114, or 116</td>
<td>English Composition II</td>
<td>3</td>
</tr>
<tr>
<td>ENG 123</td>
<td>Report Writing</td>
<td>3</td>
</tr>
<tr>
<td>†MAT 107</td>
<td>College Algebra (or higher level math course)</td>
<td>3</td>
</tr>
<tr>
<td>MAT 114</td>
<td>Probability and Statistics</td>
<td>3</td>
</tr>
<tr>
<td>SPE 101, 121</td>
<td>Oral Communication: Public Speaking, or SPE 121 Oral Communication: Small Group Discussion</td>
<td>3</td>
</tr>
<tr>
<td>Behavioral Sciences Core:</td>
<td></td>
<td>9</td>
</tr>
<tr>
<td>a) Select two courses from the following:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ANT 103 or 104</td>
<td>ECO 101 or 102, HEC 101, POL 101, PSY 101, or SOC 101</td>
<td></td>
</tr>
<tr>
<td>b) Select any additional course coded BC</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Humanities Core:</td>
<td></td>
<td>9</td>
</tr>
<tr>
<td>One three-credit course from each of the following categories:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>a) History—an history course coded HC</td>
<td></td>
<td></td>
</tr>
<tr>
<td>b) Literature (ENG 201, 202, 203, 204, 205, 206, 219, 225, 235, 247, 248, 253)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>c) Any additional course coded HC</td>
<td></td>
<td></td>
</tr>
<tr>
<td>†Science Core:</td>
<td></td>
<td>8</td>
</tr>
<tr>
<td>Two 4-credit BIO, CHE, GEO, PHY, or SCI courses with NC advising codes</td>
<td></td>
<td></td>
</tr>
<tr>
<td>General Elective:</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Program Coordinator:** Toby Sutton  
**Office:** N-410

† Students planning to transfer to a baccalaureate degree-awarding computer science major should take: MAT 201 Calculus I, MAT 202 Calculus II, PHY 111 General Physics I with Calculus, and PHY 112 General Physics II with Calculus. CHE 111, General Chemistry I and CHE 112, General Chemistry II may be required by some programs.
Early Childhood Education

The Degree: Associate of Science

The Program: provides a strong background in early childhood education and liberal arts. The curriculum integrates coursework with direct experience and practical skill building in different early childhood settings.

Your Next Step: work as a professional in various early childhood settings or social service agencies or transfer to a baccalaureate degree-awarding institution to prepare for employment in schools or social service agencies.

Required Courses

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDU 101 Introduction to Early Childhood Education</td>
<td>3</td>
</tr>
<tr>
<td>EDU 102 Prepracticum in Early Childhood Education</td>
<td>4</td>
</tr>
<tr>
<td>EDU 103 Creative Experiences in Art, Music, Drama, and Dance</td>
<td>3</td>
</tr>
<tr>
<td>EDU 201 Early Childhood Curriculum</td>
<td>3</td>
</tr>
<tr>
<td>EDU 205 Philosophy of Education</td>
<td>3</td>
</tr>
<tr>
<td>EDU 215 Student Teaching I</td>
<td>6</td>
</tr>
<tr>
<td>EDU 216 Student Teaching II</td>
<td>6</td>
</tr>
<tr>
<td>ENG 101, 103, or 105 English Composition I</td>
<td>3</td>
</tr>
<tr>
<td>ENG 112, 114, or 116 English Composition II</td>
<td>3</td>
</tr>
<tr>
<td>ENG 241 Survey of Children’s Literature,</td>
<td></td>
</tr>
<tr>
<td>or FLK 218 Storytelling</td>
<td>3</td>
</tr>
<tr>
<td>PSY 101 Principles of Psychology</td>
<td>3</td>
</tr>
<tr>
<td>PSY 217 Human Growth and Development</td>
<td>3</td>
</tr>
<tr>
<td>SOC 101 Principles of Sociology,</td>
<td></td>
</tr>
<tr>
<td>or ANT 104 Introduction to Cultural Anthropology</td>
<td>3</td>
</tr>
<tr>
<td>SPE 101 Oral Communication:</td>
<td></td>
</tr>
<tr>
<td>Public Speaking</td>
<td>3</td>
</tr>
<tr>
<td>General Electives</td>
<td>6</td>
</tr>
<tr>
<td>Math/Science Elective</td>
<td>3-4</td>
</tr>
<tr>
<td>Program Elective</td>
<td>3</td>
</tr>
</tbody>
</table>

TOTAL 61-62

Program Electives—choose 1 from the list below

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDU 111 Introduction to Special Education</td>
<td>3</td>
</tr>
<tr>
<td>EDU 115 Family, School and Community</td>
<td>3</td>
</tr>
<tr>
<td>Interaction</td>
<td></td>
</tr>
<tr>
<td>EDU 121 Reading and Language Arts for the</td>
<td>3</td>
</tr>
<tr>
<td>Young Child</td>
<td></td>
</tr>
<tr>
<td>EDU 123 Educating the Infant and Toddler</td>
<td>3</td>
</tr>
<tr>
<td>HSV 119 Contemporary Parenting</td>
<td>3</td>
</tr>
</tbody>
</table>

Program Coordinator: Nancy T. Winter
office: N-213

24 Academic Programs
Education

The Degree: Associate of Arts in Liberal Arts

The Program: provides a broad range of liberal arts studies with an elective emphasis on education.

Your Next Step: transfer to a baccalaureate degree-awarding institution as preparation to teach in preschools and elementary schools.

Required Courses

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENG 101, 103, or 105 English Composition I</td>
<td>3</td>
</tr>
<tr>
<td>ENG 112, 114, or 116 English Composition II</td>
<td>3</td>
</tr>
<tr>
<td>ENG 241 Survey of Children's Literature</td>
<td>3</td>
</tr>
<tr>
<td>PSY 101 Principles of Psychology</td>
<td>3</td>
</tr>
<tr>
<td>PSY 217 Human Growth and Development</td>
<td>3</td>
</tr>
<tr>
<td>SOC 101 Principles of Sociology, or ANT 104 Introduction to Cultural Anthropology</td>
<td>3</td>
</tr>
<tr>
<td>SPE 101 Oral Communication: Public Speaking, or SPE 121 Oral Communication: Group Discussion</td>
<td>3</td>
</tr>
</tbody>
</table>

Humanities Core:

- One three-credit course from each of the following categories:
  - a) History—any history course coded HC
  - b) Literature (ENG 201, 202, 203, 204, 205, 206, 219, 225, 235, 247, 248, 253)

Science/Math Core:

- a) Science: two 4-credit BIO, CHE, GEO, PHY, or SCI courses with NC advising codes
- b) Math: MAT course with NC advising code

Education Electives:

- EDU 101 Introduction to Early Childhood Education | 3
- EDU 102 Prepracticum in Early Childhood Education | 4
- EDU 103 Creative Experiences in Art, Music, Drama, and Dance | 3
- EDU 121 Reading and Language for the Young Child | 3
- EDU 201 Early Childhood Curriculum | 3

Program Coordinator: Nancy T. Winter office: N-213

*See Liberal Arts Program (p. 9) for specific requirements.
Engineering Science

The Degree: Associate of Science

The Program: provides a base of mathematics, science, and engineering fundamentals common to the first two years of a baccalaureate degree-awarding engineering program. Engineering electives provide special courses to suit your particular interest in civil, electrical, mechanical, or chemical engineering. Greenfield Community College participates in the College of Engineering, University of Massachusetts/Amherst Joint Admissions Program.

Your Next Step: transfer as an engineering major to a baccalaureate degree-awarding institution. In addition to the UMass Joint Admissions Program, GCC also has formal transfer agreements with New England College in civil engineering, Rensselaer Polytechnic Institute in all engineering fields, Western New England College in industrial, electrical, mechanical engineering and engineering-biomedical option, and Worcester Polytechnic Institute in all engineering fields. See the Engineering Science Coordinator for details on the specific electives needed for these transfer programs.

Required Courses

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHE 111 General Chemistry I</td>
<td>4</td>
</tr>
<tr>
<td>CHE 112 General Chemistry II</td>
<td>4</td>
</tr>
<tr>
<td>DAT 146 FORTRAN Survey for Programmers</td>
<td>1</td>
</tr>
<tr>
<td>DAT 147 PASCAL Programming</td>
<td>3</td>
</tr>
<tr>
<td>ECO 101 Principles of Macroeconomics,</td>
<td></td>
</tr>
<tr>
<td>or ECO 102 Principles of Microeconomics (for CE)</td>
<td>3</td>
</tr>
<tr>
<td>EGR 103 Engineering Orientation</td>
<td>1</td>
</tr>
<tr>
<td>EGR 107 Engineering Graphics I</td>
<td>3</td>
</tr>
<tr>
<td>ENG 101, 103, or 105 English Composition I</td>
<td>3</td>
</tr>
<tr>
<td>ENG 123 Report Writing</td>
<td>3</td>
</tr>
<tr>
<td>MAT 201 Calculus with Analytic Geometry I</td>
<td>4</td>
</tr>
<tr>
<td>MAT 202 Calculus with Analytic Geometry II</td>
<td>4</td>
</tr>
<tr>
<td>MAT 203 Multivariate Calculus</td>
<td>4</td>
</tr>
<tr>
<td>MAT 204 Elementary Differential Equations (for CE, ChE, ME)</td>
<td>3-4</td>
</tr>
<tr>
<td>or MAT 205 Elementary Linear Algebra (for IE, EE)</td>
<td>3-4</td>
</tr>
<tr>
<td>PHY 111 General Physics I with Calculus</td>
<td>4</td>
</tr>
<tr>
<td>PHY 112 General Physics II with Calculus</td>
<td>4</td>
</tr>
<tr>
<td>Liberal Arts Electives (BC or HC advising code)</td>
<td>6</td>
</tr>
<tr>
<td>Concentration Electives (from list on next page)</td>
<td>12-15</td>
</tr>
</tbody>
</table>

TOTAL 66-70

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No course taken for credit/no credit will fulfill the graduation requirements of this program.
Engineering Science, continued

Concentration Electives:

Students must select one of the following engineering majors and fulfill the concentration electives for that major. Students should consult the program coordinator about special requirements of transfer institutions that may warrant some variations in the electives listed below. (For example, students transferring to UMass/Amherst are advised to take DAT 129 Applications of Lotus 1-2-3 [1 credit] while at GCC.)

<table>
<thead>
<tr>
<th>Disciplinary Area</th>
<th>Required Courses</th>
</tr>
</thead>
</table>
| Electrical Engineering (EE)    | DAT 148 C Programming for Programmers 3  
                                 | EGR 205 Statics 3  
                                 | EGR 206 Mechanics of Materials 3  
                                 | SJLT 101 Basic Electricity I-DC 4  
                                 | SJLT 102 Basic Electricity II-AC 4  
                                 | MAT 204 Elementary Differential Equations 4  
                                 | Biological Science Elective 3-4  
                                 § Course not transferable for credit in a bachelor's degree program in engineering. |
| Mechanical Engineering (ME)    | EGR 205 Statics 3  
                                 | EGR 206 Mechanics of Materials 3  
                                 | MAT 205 Elementary Linear Algebra 3  
                                 | Biological Science Elective (approved by advisor) 3-4  |
| Chemical Engineering (ChE)     | CHE 201 Organic Chemistry I 4  
                                 | CHE 202 Organic Chemistry II 4  
                                 | EGR 205 Statics 3  
                                 | Biological Science Elective (approved by advisor) 3-4  |
| Civil Engineering (CE)         | EGR 205 Statics 3  
                                 | EGR 206 Mechanics of Materials 3  
                                 | Two electives from the following:  
                                 | CIV 101 Surveying I 3  
                                 | Biological Science Elective (approved by advisor) 3-4  
                                 | EGR 208 Thermodynamics 3  
                                 | MAT 205 Elementary Linear Algebra 3  |
| Industrial Engineering (IE)    | EGR 205 Statics 3  
                                 | EGR 206 Mechanics of Materials 3  
                                 | MAT 204 Elementary Differential Equations 4  
                                 | Biological Science Elective (approved by advisor) 3-4  |

Program Coordinator: Dr. Lee A. Webster  
Office: N-414
ENVIRONMENTAL STUDIES OPTIONS

These options are designed for students with educational and career goals with an environmental focus.

Environmental Studies/
Human Ecology

The Degree: Associate of Arts in Liberal Arts
The Program: combines elements of the behavioral and the natural sciences to develop an understanding of ecology and the use of science and technology in solving problems which are critical to our future.
Your Next Step: transfer to a baccalaureate degree-awarding institution.

Required Courses

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANT 104 Introduction to Cultural Anthropology</td>
<td>3</td>
</tr>
<tr>
<td>BIO 103 Ecology</td>
<td>4</td>
</tr>
<tr>
<td>ECO 113 Environmental Economics</td>
<td>3</td>
</tr>
<tr>
<td>ENG 101, 103, or 105 English Composition I</td>
<td>3</td>
</tr>
<tr>
<td>ENG 112, 114, or 116 English Composition II</td>
<td>3</td>
</tr>
<tr>
<td>Any GEO, BIO, or CHE course</td>
<td>4</td>
</tr>
<tr>
<td>HEC 101 Human Ecology: Problems and Solutions</td>
<td>3</td>
</tr>
<tr>
<td>HEC 111 Applied Human Ecology: Project TEME, or HEC 113 Earth Experiences</td>
<td>3</td>
</tr>
<tr>
<td>HEC 251 Small Group Ecology: Project TEME Planning and Development</td>
<td>3</td>
</tr>
<tr>
<td>HEC 252 Small Group Ecology: Project TEME Implementation</td>
<td>6</td>
</tr>
<tr>
<td>MAT 107 College Algebra (or higher level math), or MAT 117 Mathematical Problem Solving</td>
<td>3</td>
</tr>
<tr>
<td>SPE 101 Oral Communication: Public Speaking, or SPE 121 Oral Communication: Small Group Discussion</td>
<td>3</td>
</tr>
<tr>
<td>Behavioral Science elective</td>
<td>3</td>
</tr>
<tr>
<td>Humanities Core:</td>
<td>9</td>
</tr>
<tr>
<td>One three-credit course from each of the following categories:</td>
<td></td>
</tr>
<tr>
<td>a) History—any history course coded HC</td>
<td></td>
</tr>
<tr>
<td>b) Literature (ENG 201, 202, 203, 204, 205, 206, 219, 225, 235, 247, 248, 253)</td>
<td></td>
</tr>
<tr>
<td>c) Any additional course coded HC</td>
<td></td>
</tr>
<tr>
<td>Natural Sciences*</td>
<td>3-4</td>
</tr>
<tr>
<td>General Elective*</td>
<td>3-4</td>
</tr>
</tbody>
</table>

TOTAL 60-61

Program Coordinators:
Daniel F. LaRose, office: N-214
Gregory C. Vouros, office: N-203

* Seven credits of Natural Sciences and general electives are required.

28 Academic Programs
Environmental Studies/Natural Resources

The Degree: Associate of Arts in Liberal Arts

The Program: provides a background in natural resources, agriculture, land-use planning, landscaping, horticulture, forestry, wood technology, or wildlife management.

Your Next Step: transfer to a baccalaureate degree-awarding institution.

Required Courses Credits

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANT 104</td>
<td>Introduction to Cultural Anthropology</td>
<td>3</td>
</tr>
<tr>
<td>BIO 103</td>
<td>Ecology</td>
<td>4</td>
</tr>
<tr>
<td>BIO 104</td>
<td>Natural History</td>
<td>4</td>
</tr>
<tr>
<td>ECO 113</td>
<td>Environmental Economics</td>
<td>3</td>
</tr>
<tr>
<td>ENG 101, 103, or 105</td>
<td>English Composition I</td>
<td>3</td>
</tr>
<tr>
<td>ENG 112, 114, or 116</td>
<td>English Composition II</td>
<td>3</td>
</tr>
<tr>
<td>ENV 107</td>
<td>Principles of Land Use</td>
<td>3</td>
</tr>
<tr>
<td>GEO 101</td>
<td>Physical Geology</td>
<td>4</td>
</tr>
<tr>
<td>Any GEO, BIO, or CHE course*</td>
<td></td>
<td>4</td>
</tr>
<tr>
<td>HEC 101</td>
<td>Human Ecology: Problems and Solutions</td>
<td>3</td>
</tr>
<tr>
<td>HEC 111</td>
<td>Applied Human Ecology: Project TEME, or HEC 113 Earth Experiences</td>
<td>3</td>
</tr>
<tr>
<td>MAT 107</td>
<td>College Algebra (or higher level math), or MAT 117 Mathematical Problem Solving</td>
<td>3</td>
</tr>
<tr>
<td>MAT 151</td>
<td>Applied Calculus I</td>
<td>4</td>
</tr>
<tr>
<td>SCI 104</td>
<td>Energy: Issues and Principles</td>
<td>3</td>
</tr>
<tr>
<td>SPE 101</td>
<td>Oral Communication: Public Speaking, or SPE 121 Oral Communication: Small Group Discussion</td>
<td>3</td>
</tr>
<tr>
<td>Natural Sciences Core (NC)</td>
<td></td>
<td>3-4</td>
</tr>
<tr>
<td>Humanities Core:</td>
<td></td>
<td>9</td>
</tr>
</tbody>
</table>

One three-credit course from each of the following categories:

a) History—any history course coded HC
b) Literature (ENG 201, 202, 203, 204, 205, 206, 219, 225, 235, 247, 248, 253)
c) Any additional course coded HC

TOTAL 62-63

Program Coordinator: Peter C. Steve  
office: S-415

* In addition to BIO 104, ENV 107, GEO 101, MAT 151, and SCI 104, some baccalaureate degree-awarding programs may require selected entry sciences, such as: BIO 101, BIO 102, CHE 111, CHE 112, GEO 102, PHY 101, and PHY 102.
# Fire Science Technology

**The Degree:**  Associate of Science

**The Program:** provides technical and legal training in various aspects of fire prevention, fire protection, and hazardous material handling.

**Your Next Step:** begin your career in municipal fire protection, insurance and building inspection, fire protection work with private firms, or transfer to a baccalaureate degree-awarding institution with major emphasis on fire department management or fire science education.

## Required Courses

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHE 105</td>
<td>Basic Principles of Chemistry, or SCI 101 Physical Science I</td>
<td>3</td>
</tr>
<tr>
<td>ENG 101, 103, or 105</td>
<td>English Composition I</td>
<td>3</td>
</tr>
<tr>
<td>ENG 112, 114, or 116</td>
<td>English Composition II, or ENG 123 Report Writing</td>
<td>3</td>
</tr>
<tr>
<td>FST 101</td>
<td>Introduction to Fire Protection</td>
<td>3</td>
</tr>
<tr>
<td>FST 103</td>
<td>Fundamentals of Fire Prevention</td>
<td>3</td>
</tr>
<tr>
<td>FST 109</td>
<td>Hazardous Materials</td>
<td>3</td>
</tr>
<tr>
<td>FST 111</td>
<td>Building Construction</td>
<td>3</td>
</tr>
<tr>
<td>FST 113</td>
<td>Fire Hydraulics with Applied Math</td>
<td>4</td>
</tr>
<tr>
<td>FST 201</td>
<td>Fire Protection Systems and Equipment I</td>
<td>3</td>
</tr>
<tr>
<td>PSY 101</td>
<td>Principles of Psychology</td>
<td>3</td>
</tr>
<tr>
<td>SOC 101</td>
<td>Principles of Sociology</td>
<td>3</td>
</tr>
<tr>
<td>SPE 101</td>
<td>Oral Communication: Public Speaking</td>
<td>3</td>
</tr>
<tr>
<td><em>FST Electives</em></td>
<td></td>
<td>14</td>
</tr>
</tbody>
</table>

**General Elective** 3

**Liberal Arts Electives** 6

**TOTAL 60**

Program Coordinator: Robert B. Keir
Office: C-237

* FST electives consist of all courses designated FST not specifically required in the curriculum.
The Degree: Associate of Arts in Liberal Arts

The Program: provides a strong two-year program in food science or food science engineering, similar to the first two years of a university program in food science.

Your Next Step: transfer to a baccalaureate degree-awarding institution as a major in food science, food science engineering, or, with slight modification, nutrition.

<table>
<thead>
<tr>
<th>Required Courses</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIO 101 Zoology</td>
<td>4</td>
</tr>
<tr>
<td>BIO 205 Microbiology</td>
<td>4</td>
</tr>
<tr>
<td>CHE 111 General Chemistry I</td>
<td>4</td>
</tr>
<tr>
<td>CHE 112 General Chemistry II</td>
<td>4</td>
</tr>
<tr>
<td>CHE 201 Organic Chemistry I</td>
<td>4</td>
</tr>
<tr>
<td>CHE 202 Organic Chemistry II</td>
<td>4</td>
</tr>
<tr>
<td>ENG 101, 103, or 105 English Composition I</td>
<td>3</td>
</tr>
<tr>
<td>ENG 112, 114, or 116 English Composition II</td>
<td>3</td>
</tr>
<tr>
<td>MAT 201 Calculus with Analytic Geometry I</td>
<td>4</td>
</tr>
<tr>
<td>MAT 202 Calculus with Analytic Geometry II</td>
<td>4</td>
</tr>
<tr>
<td>PHY 101 General Physics I</td>
<td>4</td>
</tr>
<tr>
<td>PHY 102 General Physics II</td>
<td>4</td>
</tr>
<tr>
<td>SPE 101 Oral Communication: Public Speaking,</td>
<td>3</td>
</tr>
<tr>
<td>or SPE 121 Oral Communication: Small Group Discussion</td>
<td></td>
</tr>
</tbody>
</table>

Behavioral Sciences Core: 9

- a) Select two courses from
  the following: ANT 103 or 104,
  ECO 101 or 102, HEC 101,
  POL 101, PSY 101, or SOC 101
- b) Select any additional course
coded BC

Humanities Core: 9

- One three-credit course from
each of the following categories:
  a) History—any history course
coded HC
  b) Literature (ENG 201, 202, 203,
      204, 205, 206, 219, 225, 235,
      247, 248, 253)
  c) Any additional course coded HC

Program Coordinator: Gertrude P. Sheaffer,
M.T. (ASCP)
office: S-420

TOTAL 67
# Human Services

**The Degree:** Associate of Arts in Liberal Arts  
**The Program:** provides a broad range of studies in the core curriculum and human services offerings.  
**Your Next Step:** transfer to a baccalaureate degree-awarding institution.

## Required Courses and Credits

<table>
<thead>
<tr>
<th>Required Courses</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENG 101, 103, or 105 English Composition I</td>
<td>3</td>
</tr>
<tr>
<td>ENG 112, 114, or 116 English Composition II</td>
<td>3</td>
</tr>
<tr>
<td>HSV 101 Introduction to Human Services</td>
<td>3</td>
</tr>
<tr>
<td>HSV 115 Introduction to Interviewing and Counseling</td>
<td>3</td>
</tr>
<tr>
<td>HSV 215 Counseling Skills</td>
<td>3</td>
</tr>
<tr>
<td>HSV 271 Practicum in Human Services</td>
<td>4</td>
</tr>
<tr>
<td>PSY 101 Principles of Psychology</td>
<td>3</td>
</tr>
<tr>
<td>PSY 217 Human Growth and Development</td>
<td>3</td>
</tr>
<tr>
<td>SOC 101 Principles of Sociology</td>
<td>3</td>
</tr>
<tr>
<td>SPE 101 Oral Communication: Public Speaking,</td>
<td></td>
</tr>
<tr>
<td>or SPE 121 Oral Communication: Group Discussion</td>
<td>3</td>
</tr>
<tr>
<td>ANT, PSY, SOC, or HSV elective</td>
<td>3</td>
</tr>
<tr>
<td>200-level courses coded BC or BL</td>
<td>6</td>
</tr>
<tr>
<td>Humanities Core:</td>
<td>9</td>
</tr>
<tr>
<td>Science/Math Core:</td>
<td>11</td>
</tr>
<tr>
<td>Elective</td>
<td>3</td>
</tr>
<tr>
<td><strong>TOTAL</strong> 63</td>
<td></td>
</tr>
</tbody>
</table>

### ANT, PSY, SOC, or HSV elective  
### 200-level courses coded BC or BL  
### Humanities Core:  
One three-credit course from each of the following categories:  
a) History—any history course coded HC  
b) Literature (ENG 201, 202, 203, 204, 205, 206, 219, 225, 235, 247, 248, 253)  
c) Any additional course coded HC  
### Science/Math Core:  
a) Science: two 4-credit BIO, CHE, GEO, PHY, or SCI courses with NC advising codes  
b) Math: MAT course with NC advising code  
### Elective  

---

Program Coordinator: Dr. L. Edward Dolhenty  
Office: N-207

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32 Academic Programs
Industrial Technology

The Degree: Associate of Science

The Program: provides a strong background in math, physics, and chemistry, with student-elected emphasis on chemical, civil, electronic, computer, or drafting technologies.

Your Next Step: transfer as an engineering technology major to a baccalaureate degree-awarding institution, or work as an engineering assistant, engineering technician, or in a similar job requiring technically trained people.

**Required Courses**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHE 111 General Chemistry I</td>
<td>4</td>
</tr>
<tr>
<td>CHE 112 General Chemistry II</td>
<td>4</td>
</tr>
<tr>
<td>DAT 147 Pascal Programming</td>
<td>3</td>
</tr>
<tr>
<td>EGR 103 Engineering Orientation</td>
<td>1</td>
</tr>
<tr>
<td>EGR 107 Engineering Graphics I</td>
<td>3</td>
</tr>
<tr>
<td>ENG 101, 103, or 105 English Composition I</td>
<td>3</td>
</tr>
<tr>
<td>ENG 123 Report Writing</td>
<td>3</td>
</tr>
<tr>
<td>MAT 103 Applied Mathematics I</td>
<td>3</td>
</tr>
<tr>
<td>DAT 147 Pascal Programming</td>
<td>3</td>
</tr>
<tr>
<td>EGR 103 Engineering Orientation</td>
<td>1</td>
</tr>
<tr>
<td>EGR 107 Engineering Graphics I</td>
<td>3</td>
</tr>
<tr>
<td>ENG 101, 103, or 105 English Composition I</td>
<td>3</td>
</tr>
<tr>
<td>ENG 123 Report Writing</td>
<td>3</td>
</tr>
<tr>
<td>MAT 103 Applied Mathematics I</td>
<td>3</td>
</tr>
<tr>
<td>MAT 104 Applied Mathematics II</td>
<td>4</td>
</tr>
<tr>
<td>PHY 101 General Physics I</td>
<td>4</td>
</tr>
<tr>
<td>PHY 102 General Physics II</td>
<td>4</td>
</tr>
<tr>
<td>SPE 101 Oral Communication: Public Speaking</td>
<td>3</td>
</tr>
<tr>
<td>Behavioral Science/Humanities Electives</td>
<td>6</td>
</tr>
<tr>
<td>Program Electives</td>
<td>18-22</td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
<td><strong>66-70</strong></td>
</tr>
</tbody>
</table>

**Program Electives—**choose six courses from the list below

- CHE 201 Organic Chemistry I (4)
- CHE 202 Organic Chemistry II (4)
- CIV 101 Surveying I (3)
- CIV 102 Surveying II (3)
- DAT 115 Programming Principles and Concepts (3)
- DAT 141 Programming in BASIC (3)
- DAT 148 C Programming for Programmers (3)
- EGR 108 Engineering Graphics II (3)
- EGR 110 Engineering Graphics Project (3)
- EGR 205 Statics (4)
- EGR 206 Mechanics of Materials (4)
- ELT 101 Basic Electricity I-DC (3)
- ELT 102 Basic Electricity II-AC (3)
- ELT 201 Digital Circuit Theory (3)
- MAT 114 Probability and Statistics (3)
- MAT 152 Applied Calculus II (3)
- MAT 152 Applied Calculus II (3)
- PHY 105 Introductory Electronics (3)
- Other elective(s) approved by program coordinator (3-4)

Program Coordinator:

Dr. Lee Webster

office: N-414

*No course taken for credit/no credit will fulfill the graduation requirements of this program.*
International Studies

The Degree: Associate of Arts in Liberal Arts

The Program: provides an introduction to the broad area of international studies, examining culture, history, literature, and society from a global perspective. Helps prepare students for careers in international fields.

Your Next Step: transfer to a baccalaureate degree-awarding institution.

### Required Courses

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANT 104 Introduction to Cultural Anthropology, or ECO 101 Principles of Macroeconomics</td>
<td>3</td>
</tr>
<tr>
<td>ENG 101, 103, or 105 English Composition I</td>
<td>3</td>
</tr>
<tr>
<td>ENG 112, 114, or 116 English Composition II</td>
<td>3</td>
</tr>
<tr>
<td>ENG 253 Survey of Latin American Literature</td>
<td>3</td>
</tr>
<tr>
<td>Foreign Language</td>
<td>6</td>
</tr>
<tr>
<td>HIS 113 China and Japan: A Cultural History, or HIS 123 Modern Pacific Asia, or HIS 129 Introduction to Modern Africa</td>
<td>3</td>
</tr>
<tr>
<td>POL 103 Comparative Politics, or POL 105 International Politics</td>
<td>3</td>
</tr>
<tr>
<td>SPE 101 Oral Communication: Public Speaking, or SPE 121 Oral Communication: Small Group Discussion</td>
<td>3</td>
</tr>
</tbody>
</table>

Any additional course coded BC 3

Science/Math Core: 11

a) Science: two 4-credit BIO, CHE, GEO, PHY, or SCI courses with NC advising codes

b) Math: MAT course with NC advising code

### Credits

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Art History I</td>
<td>3</td>
</tr>
<tr>
<td>Art History II</td>
<td>3</td>
</tr>
<tr>
<td>DAN 105 African Dance A</td>
<td>3</td>
</tr>
<tr>
<td>DAN 106 African Dance B</td>
<td>3</td>
</tr>
<tr>
<td>DAN 120 Dance in Culture</td>
<td>3</td>
</tr>
<tr>
<td>HIS 113 China and Japan: A Cultural History</td>
<td>3</td>
</tr>
<tr>
<td>HIS 123 Modern Pacific Asia</td>
<td>3</td>
</tr>
<tr>
<td>HIS 129 Introduction to Modern Africa</td>
<td>3</td>
</tr>
<tr>
<td>POL 103 Comparative Politics</td>
<td>3</td>
</tr>
<tr>
<td>POL 105 International Politics</td>
<td>3</td>
</tr>
<tr>
<td>POL 205 American Foreign Policy</td>
<td>3</td>
</tr>
<tr>
<td>Foreign Language</td>
<td>3</td>
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</tbody>
</table>

Total 60

International Studies Electives (if not already used to fulfill required courses)

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 103 Art History I</td>
<td>3</td>
</tr>
<tr>
<td>ART 104 Art History II</td>
<td>3</td>
</tr>
<tr>
<td>DAN 105 African Dance A</td>
<td>3</td>
</tr>
<tr>
<td>DAN 106 African Dance B</td>
<td>3</td>
</tr>
<tr>
<td>DAN 120 Dance in Culture</td>
<td>3</td>
</tr>
<tr>
<td>HIS 113 China and Japan: A Cultural History</td>
<td>3</td>
</tr>
<tr>
<td>HIS 123 Modern Pacific Asia</td>
<td>3</td>
</tr>
<tr>
<td>HIS 129 Introduction to Modern Africa</td>
<td>3</td>
</tr>
<tr>
<td>POL 103 Comparative Politics</td>
<td>3</td>
</tr>
<tr>
<td>POL 105 International Politics</td>
<td>3</td>
</tr>
<tr>
<td>POL 205 American Foreign Policy</td>
<td>3</td>
</tr>
<tr>
<td>Foreign Language</td>
<td>3</td>
</tr>
</tbody>
</table>

Program Coordinator: Dr. Joan S. Ibish
Office: S-321
Management

The Degree: Associate of Science

The Program: provides occupational and some transfer possibilities. You will be required to take a core of management courses, as well as liberal arts courses and electives that will allow you to transfer or enter the workplace. You may choose either a general management concentration or a total quality management concentration.

Your Next Step: work in entry level management positions in business and public organizations or transfer to a business administration program at a baccalaureate degree-awarding institution.

Required Courses

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACC 121 Introduction to Accounting I</td>
<td>4</td>
</tr>
<tr>
<td>ACC 122 Introduction to Accounting II</td>
<td>4</td>
</tr>
<tr>
<td>ACC 203 Managerial Accounting</td>
<td>3</td>
</tr>
<tr>
<td>ADM 106 Keyboarding for Information Processing</td>
<td>1</td>
</tr>
<tr>
<td>BUS 103 Introduction to Marketing</td>
<td>3</td>
</tr>
<tr>
<td>BUS 105 Mathematics for Business</td>
<td>3</td>
</tr>
<tr>
<td>BUS 111 Introduction to Business</td>
<td>3</td>
</tr>
<tr>
<td>BUS 155 Business Law I</td>
<td>3</td>
</tr>
<tr>
<td>BUS 203 Personnel Management</td>
<td>3</td>
</tr>
<tr>
<td>BUS 205 Principles of Management</td>
<td>3</td>
</tr>
<tr>
<td>DAT 114 Microcomputer Software Tools, or DAT 129 Applications of Lotus 1-2-3</td>
<td>1 or 3</td>
</tr>
<tr>
<td>ECO 101 Principles of Macroeconomics</td>
<td>3</td>
</tr>
<tr>
<td>ECO 102 Principles of Microeconomics</td>
<td>3</td>
</tr>
<tr>
<td>ENG 101, 103, or 105 English Composition I</td>
<td>3</td>
</tr>
<tr>
<td>ENG 112, 114, or 116 English Composition II, or ENG 123 Report Writing</td>
<td>3</td>
</tr>
<tr>
<td>PSY 101 Principles of Psychology</td>
<td>3</td>
</tr>
<tr>
<td>Program Electives (as defined above)</td>
<td>3</td>
</tr>
<tr>
<td>Liberal Arts Electives</td>
<td>6</td>
</tr>
<tr>
<td>Concentration Electives (choose one of the options below)</td>
<td>9</td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
<td><strong>64-66</strong></td>
</tr>
</tbody>
</table>

General Management

- BUS 156 Business Law II 3
- DAT 113 Introduction to Business Information Systems 3
- Program Elective (as defined above) 3

Dr. Robert J. Welsh
office: N-316

Total Quality Management

- BUS 207 Operations Management 3
- MAT 115 Statistical Process Control 3
- General Elective 3

Program Coordinator:

GREENFIELD COMMUNITY COLLEGE CATALOG 1994-95 35
Marketing

The Degree: Associate of Science

The Program: is for students interested in careers in marketing or merchandising. Your coursework will include selected liberal arts courses, a core of business administration courses, specialized marketing courses and the opportunity for cooperative placement.

Your Next Step: work in entry level management or sales positions in retail, wholesale, or industrial organizations.

Required Courses

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACC 103</td>
<td>Analysis of Financial Statements</td>
<td>3</td>
</tr>
<tr>
<td>BUS 103</td>
<td>Introduction to Marketing</td>
<td>3</td>
</tr>
<tr>
<td>BUS 105</td>
<td>Mathematics for Business</td>
<td>3</td>
</tr>
<tr>
<td>BUS 111</td>
<td>Introduction to Business</td>
<td>3</td>
</tr>
<tr>
<td>BUS 125</td>
<td>Principles of Advertising</td>
<td>3</td>
</tr>
<tr>
<td>BUS 155</td>
<td>Business Law I</td>
<td>3</td>
</tr>
<tr>
<td>BUS 203</td>
<td>Personnel Management, or BUS 205 Principles of Management</td>
<td>3</td>
</tr>
<tr>
<td>BUS 213</td>
<td>Personal Selling and Sales Techniques</td>
<td>3</td>
</tr>
<tr>
<td>BUS 214</td>
<td>Retail Management</td>
<td>3</td>
</tr>
<tr>
<td>BUS 215</td>
<td>Retail Buying and Merchandising</td>
<td>3</td>
</tr>
<tr>
<td>DAT 114</td>
<td>Microcomputer Software Tools</td>
<td>3</td>
</tr>
<tr>
<td>ECO 101, 103, or 105</td>
<td>Principles of Macroeconomics</td>
<td>3</td>
</tr>
<tr>
<td>ENG 101, 103, or 105</td>
<td>English Composition I</td>
<td>3</td>
</tr>
<tr>
<td>ENG 112, 114, or 116</td>
<td>English Composition II, or ENG 123 Report Writing</td>
<td>3</td>
</tr>
<tr>
<td>PSY 101</td>
<td>Principles of Psychology</td>
<td>3</td>
</tr>
<tr>
<td>*Program Elective:</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>(ACC, BUS, or DAT courses)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Liberal Arts Electives</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td>General Elective</td>
<td>3</td>
<td></td>
</tr>
</tbody>
</table>

TOTAL 60

Program Coordinator: Dr. Robert J. Welsh

office: N-316

* Any student considering a baccalaureate degree in the future should consider taking ACC 121 and ACC 122 in place of ACC 103.
Math/Science

The Degree: Associate of Arts in Liberal Arts

The Program: is designed for the student who plans to transfer to a baccalaureate degree-awarding institution as a math or science major, or into a pre-professional program.

Your Next Step: transfer to a baccalaureate degree-awarding institution.

**Required Courses**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENG 101, 103, or 105 English Composition I</td>
<td>3</td>
</tr>
<tr>
<td>ENG 112, 114, or 116 English Composition II</td>
<td>3</td>
</tr>
<tr>
<td>SPE 101 Oral Communication: Public Speaking, or SPE 121 Oral Communication: Small Group Discussion</td>
<td>3</td>
</tr>
<tr>
<td>MAT 107, 108, 201, 202 (at least 2)</td>
<td>6-8</td>
</tr>
</tbody>
</table>

**Behavioral Sciences Core:**

- Select two courses from the following: ANT 103 or 104, ECO 101 or 102, HEC 101, POL 101, PSY 101, or SOC 101
- Select any additional course coded BC

**Humanities Core:**

- One three-credit course from each of the following categories:
  - a) History—any history course coded HC
  - b) Literature (ENG 201, 202, 203, 204, 205, 206, 219, 225, 235, 247, 248, 253)
  - c) Any additional course coded HC

**Math/Science Electives**

- Select at least 8 credits from two or more subject areas

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIO 101 Zoology</td>
<td>4</td>
</tr>
<tr>
<td>BIO 102 Botany</td>
<td>4</td>
</tr>
<tr>
<td>CHE 111 General Chemistry I</td>
<td>4</td>
</tr>
<tr>
<td>CHE 112 General Chemistry II</td>
<td>4</td>
</tr>
<tr>
<td>GEO 101 Physical Geology</td>
<td>4</td>
</tr>
<tr>
<td>GEO 102 Historical Geology</td>
<td>4</td>
</tr>
<tr>
<td>PHY 101 General Physics I</td>
<td>4</td>
</tr>
<tr>
<td>PHY 102 General Physics II</td>
<td>4</td>
</tr>
<tr>
<td>PHY 111 General Physics I with Calculus</td>
<td>4</td>
</tr>
<tr>
<td>PHY 112 General Physics II with Calculus</td>
<td>4</td>
</tr>
<tr>
<td>MAT 201 Calculus with Analytic Geometry I</td>
<td>4</td>
</tr>
<tr>
<td>MAT 202 Calculus with Analytic Geometry II</td>
<td>4</td>
</tr>
<tr>
<td>MAT 203 Multivariate Calculus</td>
<td>4</td>
</tr>
<tr>
<td>MAT 204 Elementary Differential Equations</td>
<td>4</td>
</tr>
<tr>
<td>MAT 205 Elementary Linear Algebra</td>
<td>3</td>
</tr>
<tr>
<td>BIO 103 Ecology</td>
<td>4</td>
</tr>
<tr>
<td>BIO 104 Natural History</td>
<td>4</td>
</tr>
<tr>
<td>BIO 105 Anatomy and Physiology I</td>
<td>4</td>
</tr>
<tr>
<td>BIO 106 Anatomy and Physiology II</td>
<td>4</td>
</tr>
<tr>
<td>BIO 111 Basic Horticulture</td>
<td>3</td>
</tr>
<tr>
<td>BIO 130 Human Nutrition</td>
<td>3</td>
</tr>
<tr>
<td>BIO 205 Microbiology</td>
<td>4</td>
</tr>
<tr>
<td>CHE 201 Organic Chemistry I</td>
<td>4</td>
</tr>
<tr>
<td>CHE 202 Organic Chemistry II</td>
<td>4</td>
</tr>
<tr>
<td>DAT 111 Introduction to Computers</td>
<td>3</td>
</tr>
<tr>
<td>DAT 147 Pascal Programming</td>
<td>3</td>
</tr>
<tr>
<td>DAT 148 C Programming for Programmers</td>
<td>3</td>
</tr>
<tr>
<td>GEO 103 Valley Geology</td>
<td>3</td>
</tr>
<tr>
<td>GEO 104 Introduction to Oceanography</td>
<td>4</td>
</tr>
<tr>
<td>GEO 107 Geology of Our National Parks</td>
<td>4</td>
</tr>
<tr>
<td>MAT 114 Probability and Statistics</td>
<td>3</td>
</tr>
<tr>
<td>Any course with EGR, ELT, or SCI prefix</td>
<td>3-4</td>
</tr>
</tbody>
</table>

**Program Electives—Any Math/Science Elective, plus:**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MAT 114 Probability and Statistics</td>
<td>3</td>
</tr>
<tr>
<td>Any course with EGR, ELT, or SCI prefix</td>
<td>3-4</td>
</tr>
</tbody>
</table>

Program Coordinator: Melinda Gougeon

Office N-409
Nursing

The Degree: Associate of Science

The Program: prepares you for a career as a registered nurse, providing patient care for adults and children in varied health care settings. You will be required to take a combination of liberal arts and clinical nursing courses in sequence over four semesters.

Your Next Step: take the R.N. licensure examination, and enter the R.N. work force, and/or continue your education part-time or full-time at a baccalaureate degree-awarding institution. Direct articulation agreements are in effect with Elms College, UMass/Amherst, Framingham State College, and Vermont College’s School of Nursing.

Prerequisites for this program: CHE 105 or CHE 111 or one year of high school chemistry (within 5 years, C+ or better); MAT 106 or equivalent; C+ or better in BIO 105, 106, 205. A grade of C or better is required in all non-science co-requisite courses.

Required Courses

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIO 105 Anatomy and Physiology I</td>
<td>4</td>
</tr>
<tr>
<td>BIO 106 Anatomy and Physiology II</td>
<td>4</td>
</tr>
<tr>
<td>BIO 205 Microbiology</td>
<td>4</td>
</tr>
<tr>
<td>ENG 101, 103, or 105 English Composition I</td>
<td>3</td>
</tr>
<tr>
<td>ENG 112, 114, or 116 English Composition II</td>
<td>3</td>
</tr>
<tr>
<td>NUR 101 Fundamentals of Nursing</td>
<td>8</td>
</tr>
<tr>
<td>NUR 102 Family-Centered Nursing</td>
<td>7</td>
</tr>
<tr>
<td>NUR 201 Adaptation to Illness: Medical Surgical Nursing I</td>
<td>8</td>
</tr>
<tr>
<td>NUR 203 Mental Health Nursing</td>
<td>4</td>
</tr>
<tr>
<td>NUR 202 Adaptation to Illness: Medical Surgical Nursing II</td>
<td>9</td>
</tr>
<tr>
<td>NUR 204 Trends and Issues in Nursing</td>
<td>2</td>
</tr>
<tr>
<td>PSY 101 Principles of Psychology</td>
<td>3</td>
</tr>
<tr>
<td>PSY 217 Human Growth and Development</td>
<td>3</td>
</tr>
<tr>
<td>SOC 101 Principles of Sociology</td>
<td>3</td>
</tr>
<tr>
<td>Humanities Elective</td>
<td>3</td>
</tr>
</tbody>
</table>

TOTAL 68

Program Coordinator: Margaret M. Craig, R.N., M.S.N. office: S-423

Nursing requires a special admission process. An admission packet is available from the Director of Admission with detailed program requirements and admission procedures.
Office Administration

The Degree: Associate of Science

The Program: develops skills needed to work in office occupations. You may choose electives to develop a curriculum that meets your own career goals.

Your Next Step: work in executive, legal, medical, or administrative office positions, or in some cases, transfer to a baccalaureate degree-awarding institution.

<table>
<thead>
<tr>
<th>Required Courses</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACC 111 Basic Accounting I, or ACC 121 Introduction to Accounting I</td>
<td>3-4</td>
</tr>
<tr>
<td>ACC 112 Basic Accounting II, or Program Elective</td>
<td>3</td>
</tr>
<tr>
<td>*ADM 111 Typewriting Development I, or ADM 113 Typewriting Development II</td>
<td>3</td>
</tr>
<tr>
<td>ADM 119 Business English</td>
<td>3</td>
</tr>
<tr>
<td>ADM 205 Principles of Word Processing</td>
<td>3</td>
</tr>
<tr>
<td>ADM 206 Word Processing/Machine Transcription</td>
<td>3</td>
</tr>
<tr>
<td>ADM 207 Secretarial Office Procedures</td>
<td>3</td>
</tr>
<tr>
<td>ADM 210 Records Management</td>
<td>3</td>
</tr>
<tr>
<td>ADM 226 Office Internship or Program Elective</td>
<td>3</td>
</tr>
<tr>
<td>BUS 105 Mathematics for Business</td>
<td>3</td>
</tr>
<tr>
<td>BUS 111 Introduction to Business</td>
<td>3</td>
</tr>
<tr>
<td>BUS 123 Business Communication</td>
<td>3</td>
</tr>
<tr>
<td>DAT 114 Microcomputer Software Tools</td>
<td>3</td>
</tr>
<tr>
<td>ENG 101, 103, or 105 English Composition I</td>
<td>3</td>
</tr>
<tr>
<td>ENG 112, 114, or 116 English Composition II</td>
<td>3</td>
</tr>
<tr>
<td>SPE 101 Oral Communication: Public Speaking, or SPE 121 Oral Communication: Group Discussion</td>
<td>3</td>
</tr>
<tr>
<td>Liberal Arts Electives</td>
<td>12</td>
</tr>
</tbody>
</table>

TOTAL 63-64

Shorthand Option—Substitutions within the proposed requirements for those wishing the Shorthand Option are as follows: ADM 101 Shorthand I for ADM 119 Business English (Shorthand I includes extensive coverage of English grammar) or Program Elective; and ADM 102 Shorthand II for ACC 111 Basic Accounting I, ACC 112 Basic Accounting II, or Program Elective.

Program Coordinator: Dr. Robert J. Welsh
office: N-316

* Students must complete either 6 credit hours of typing or ADM 113 and 3 credit hours in a Program Elective.

† A Program Elective shall be defined as any course with a prefix of ACC, ADM, BUS, or DAT.
**Pioneer Valley Studies**

The Degree: Associate of Arts in Liberal Arts

The Program: examines the culture, history, and environment of the Pioneer Valley in a national context. Helps prepare students for careers in education, public service, museums, libraries and arts organizations, or journalism.

Your Next Step: transfer to a baccalaureate degree-awarding institution.

### Required Courses

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 105 Valley/American Art and Architecture I, or ART 106 Valley/American Art and Architecture II</td>
<td>3</td>
</tr>
<tr>
<td>ECO 111 Valley Contemporary Economic Issues</td>
<td>3</td>
</tr>
<tr>
<td>ENG 101, 103, or 105 English Composition I</td>
<td>3</td>
</tr>
<tr>
<td>ENG 112, 114, or 116 English Composition II</td>
<td>3</td>
</tr>
<tr>
<td>ENG 203 American Literature I, or ENG 204 American Literature II</td>
<td>3</td>
</tr>
<tr>
<td>ECO 253 Valley/American Literature</td>
<td>3</td>
</tr>
<tr>
<td>GEO 103 Valley Geology</td>
<td>3</td>
</tr>
<tr>
<td>HIS 107 Valley/American History I</td>
<td>3</td>
</tr>
<tr>
<td>HIS 108 Valley/American History II</td>
<td>3</td>
</tr>
<tr>
<td>HUM 113 Introduction to the Pioneer Valley</td>
<td>3</td>
</tr>
<tr>
<td>SPE 101 Oral Communication: Public Speaking, or SPE 121 Oral Communication: Small Group Discussion</td>
<td>3</td>
</tr>
<tr>
<td>Behavioral Sciences Core:</td>
<td>6</td>
</tr>
<tr>
<td>a) Select two courses from the following: ANT 103 or 104, ECO 101 or 102, HEC 101, POL 101, PSY 101, or SOC 101</td>
<td></td>
</tr>
<tr>
<td>Science/Math Core:</td>
<td>11</td>
</tr>
<tr>
<td>a) Science: two 4-credit BIO, CHE, GEO, PHY, or SCI courses with NC advising codes</td>
<td></td>
</tr>
<tr>
<td>b) Math: MAT course with NC advising code</td>
<td></td>
</tr>
<tr>
<td>*General Electives</td>
<td>4</td>
</tr>
<tr>
<td>*Valley Studies Electives</td>
<td>6</td>
</tr>
<tr>
<td><strong>TOTAL</strong> 60</td>
<td></td>
</tr>
</tbody>
</table>

### Valley Studies Electives

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECO 109 Valley Industrial and Economic Development</td>
<td>3</td>
</tr>
<tr>
<td>FLK 219 Valley Folklife</td>
<td>3</td>
</tr>
<tr>
<td>HIS 217 Valley/American Ethnic Experience</td>
<td>3</td>
</tr>
<tr>
<td>HUM 119 Women in the Valley</td>
<td>3</td>
</tr>
</tbody>
</table>

Program Coordinator: Dr. Joan S. Ibish

office: S-321

* See Liberal Arts Program (p. 9) for specific requirements.
Production Management Technology

The Degree: Associate of Science

The Program: prepares students to work principally, though not exclusively, in manufacturing industries.

Your Next Step: entry-level position in production control, quality control, motion and time study, manufacturing supervision, purchasing, drafting and maintenance supervision.

Required Courses

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>AIT 101</td>
<td>Applied CAD/CAM and CNC Technology</td>
<td>20</td>
</tr>
<tr>
<td>BUS 111</td>
<td>Introduction to Business</td>
<td>3</td>
</tr>
<tr>
<td>CHE 105</td>
<td>Basic Principles of Chemistry</td>
<td>3</td>
</tr>
<tr>
<td>DAT 113</td>
<td>Introduction to Business Information Systems,</td>
<td></td>
</tr>
<tr>
<td>or DAT 147</td>
<td>PASCAL Programming</td>
<td>3</td>
</tr>
<tr>
<td>ENG 101, 103</td>
<td>or 105 English Composition I</td>
<td>3</td>
</tr>
<tr>
<td>IND 111</td>
<td>Productivity Management,</td>
<td>3</td>
</tr>
<tr>
<td>or IND 112</td>
<td>Quality Control</td>
<td></td>
</tr>
<tr>
<td>or IND 113</td>
<td>Motion and Time Study</td>
<td>3</td>
</tr>
<tr>
<td>IND 131</td>
<td>Applied Supervision</td>
<td>3</td>
</tr>
<tr>
<td>MAT 103</td>
<td>Applied Mathematics I</td>
<td>3</td>
</tr>
<tr>
<td>MAT 104</td>
<td>Applied Mathematics II</td>
<td>3</td>
</tr>
<tr>
<td>MAT 114</td>
<td>Probability and Statistics</td>
<td>3</td>
</tr>
<tr>
<td>PSY 101</td>
<td>Principles of Psychology</td>
<td>3</td>
</tr>
<tr>
<td>SOC 101</td>
<td>Principles of Sociology</td>
<td>3</td>
</tr>
<tr>
<td>SPE 101</td>
<td>Oral Communication: Public Speaking</td>
<td>3</td>
</tr>
<tr>
<td>Humanities Electives (HC)</td>
<td></td>
<td>6</td>
</tr>
</tbody>
</table>

TOTAL 65

Program Coordinator: Peter Letson

office: N-419
Recreation and Leisure Services

**The Degree:** Associate of Science

**The Program:** develops a sound working philosophy and technical skills for programming and supervision of recreation and leisure services. Offers diverse professional and skill development courses which emphasize learning through experience. Students may concentrate in any of several areas: community recreation, outdoor recreation, elder services, commercial recreation, sports and fitness, and therapeutic recreation.

**Your Next Step:** graduates may either elect to transfer directly into a baccalaureate degree program or seek immediate employment in agencies such as: municipal recreation departments, Y’s, fitness centers, adult day care programs, outdoor centers, youth-at-risk programs, resorts, senior centers, scouting programs, sporting goods outfitters, corporate fitness centers, and nature/environmental centers.

### Required Courses

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ADM 106</td>
<td>Keyboarding for Information Processing</td>
<td>1</td>
</tr>
<tr>
<td>DAT 131</td>
<td>Word Processing on Microcomputers</td>
<td>1</td>
</tr>
<tr>
<td>ENG 101, 103, or 105</td>
<td>English Composition I</td>
<td>3</td>
</tr>
<tr>
<td>ENG 112, 114, or 116</td>
<td>English Composition II</td>
<td>3</td>
</tr>
<tr>
<td>PSY 101</td>
<td>Principles of Psychology</td>
<td>3</td>
</tr>
<tr>
<td>RLS 101</td>
<td>Introduction to Recreation and Leisure Services</td>
<td>3</td>
</tr>
<tr>
<td>RLS 109</td>
<td>Leisure Planning</td>
<td>4</td>
</tr>
<tr>
<td>RLS 119</td>
<td>Responding to Emergencies and Community CPR</td>
<td>3</td>
</tr>
<tr>
<td>RLS 215</td>
<td>Field Practicum in Recreation and Leisure Services I</td>
<td>4</td>
</tr>
<tr>
<td>RLS 216</td>
<td>Field Practicum in Recreation and Leisure Services II</td>
<td>4</td>
</tr>
<tr>
<td>SOC 101</td>
<td>Principles of Sociology, or ANT 104 Introduction to Cultural Anthropology</td>
<td>3</td>
</tr>
<tr>
<td>Humanities Elective</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Natural Science Elective</td>
<td></td>
<td>3-4</td>
</tr>
<tr>
<td>Liberal Arts Core Elective (BC, NC, HC)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Leisure Education Electives</td>
<td></td>
<td>8</td>
</tr>
<tr>
<td>Program Electives</td>
<td></td>
<td>12-15</td>
</tr>
</tbody>
</table>

**TOTAL 61-65**

---Continued on next page---
Recreation and Leisure Services, continued

Program Electives—selected with advisor to meet students' career goals

- RLS 103 Recreational Arts Programming 3
- RLS 104 Introduction to Elder Recreational Services I 3
- RLS 105 Introduction to Elder Recreational Services II 3
- RLS 111 Introduction to Outdoor Recreation 4
- RLS 113 Leadership and Group Dynamics 3
- RLS 131 Intro. to Therapeutic Recreation 3
- RLS 163 Wellness for Life 3
- RLS 180 Functional Anatomy 3
- RLS 200 Exercise Physiology 3
- RLS 207 Recreational Sports Administration 4
- RLS 251 Contemporary Trends and Issues 3

Leisure Education Electives

- LED 101 Swimming 1
- LED 104 Emergency Water Safety 1
- LED 105 Water Safety Instructor 2
- LED 106 Lifeguard Training 1
- LED 107 Fundamentals of Canoeing 1
- LED 108 Lifeguard Training Instructor 2
- LED 111 Fund. of Canoeing Instructor 1
- LED 113 Basic Sailing 2
- LED 115 Sailing Instructor 1
- LED 116 Aquatic Exercise 1
- LED 117 Aquatic Games and Contests 1
- LED 119 Boating 1
- LED 125 Nature Interpretation 1
- LED 127 Outdoor Challenge/Adventure Education 1
- LED 131 Basic Rock Climbing 1
- LED 133 Bicycle Touring 1
- LED 135 Alpine Skiing 1
- LED 137 Cross Country Skiing 1
- LED 139 Hiking and Backpacking 1
- LED 143 Orienteering 1
- LED 151 Archery 1
- LED 153 New Games 1
- LED 155 Badminton 1
- LED 156 Weight Training 1
- LED 157 Aerobics 1
- LED 158 Advanced Aerobics 1
- LED 159 Racquetball 1
- LED 161 Golf 1
- LED 164 Racquet Sports 2
- LED 165 Tennis 1
- LED 166 Advanced Tennis 1
- LED 167 Introductory Tae Kwon Do I (Karate) 1
- LED 168 Introductory Tae Kwon Do II (Karate) 1
- LED 171 Yoga 1
- LED 172 Self-Defense for Women 2
- LED 173 Bowling 1
- LED 177 Volleyball 1
- LED 178 Advanced Volleyball 1
- LED 181 Basic Officiating 1
- LED 183 Ballroom Dancing I 1
- LED 191 Recreational Dance 1
- LED 193 Contemporary Food Experiences 1
- LED 195 Nature Crafts 1
- LED 199 Creative Dramatics 1

Program Coordinator: Jeanne A. Ashley
office: N-112

Note: Some program and leisure education electives may be offered infrequently depending upon demand.

Students planning to pursue a baccalaureate program at one of the Massachusetts public colleges or universities should take advantage of the Commonwealth Transfer Compact which requires 6 credits of English Composition, 9 credits of Behavioral Science core, 9 credits of Humanities core, 3 credits of mathematics (NC code), and 8 credits of laboratory science.
Certificate Programs consist of specialized education in specific occupational fields, without the general education coursework required for college degrees. We have designed our programs to prepare you for early job entry and/or to update your specific career-oriented skills. You must complete at least 15 credits or two-thirds of the credit hours required for a specific certificate program (whichever is less) in residence at Greenfield Community College.

In most cases, the courses required to complete a certificate program may be used to fulfill requirements for an associate degree in the same field. If you complete the requirements for both the certificate and the degree simultaneously, you will receive only the associate degree.

We offer certificate programs with two types of official approval. The Office Assistant, Outdoor Leadership, and Pioneer Valley Studies certificate programs, sometimes referred to as "board approved certificates," are approved by the Greenfield Community College Board of Trustees and the Massachusetts Higher Education Coordinating Council and require at least 30 credit hours of coursework. All other certificate programs, sometimes referred to as "certificates of completion," are approved by the Greenfield Community College Board of Trustees and require fewer than 30 credit hours of coursework.

Completion of these certificate programs within the normal time frame is not possible if a student begins non-developmental coursework in January.
Business Microcomputer Applications

The Certificate: Business Microcomputer Applications

The Program: provides a comprehensive introduction to microcomputer use in business or medical records management. Includes hands-on experience with office automation software tools.

Your Next Step: employment in a variety of business and medical office settings or continuation in an associate degree with a business or allied health emphasis.

This program may require a different admission process. Please contact the program coordinator or the admission office for additional information.

Required Courses

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ADM 106</td>
<td>1</td>
</tr>
<tr>
<td>ADM 119</td>
<td>3</td>
</tr>
<tr>
<td>BUS 111</td>
<td>3</td>
</tr>
<tr>
<td>DAT 114</td>
<td>3</td>
</tr>
<tr>
<td>ENG 101, 103, or 105</td>
<td>3</td>
</tr>
<tr>
<td>HUD 109</td>
<td>2</td>
</tr>
<tr>
<td>HUD 113</td>
<td>1</td>
</tr>
<tr>
<td>MAT 100</td>
<td>3</td>
</tr>
<tr>
<td>PSY 101</td>
<td>3</td>
</tr>
<tr>
<td>Electives</td>
<td>6</td>
</tr>
</tbody>
</table>

TOTAL 28

Electives—choose two courses from the list below

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ADM 122</td>
<td>3</td>
</tr>
<tr>
<td>ADM 210</td>
<td>3</td>
</tr>
<tr>
<td>ADM 293</td>
<td>3</td>
</tr>
<tr>
<td>DAT 118</td>
<td>3</td>
</tr>
</tbody>
</table>

Program Coordinators: Dr. Robert J. Welsh, office: N-316
Jan Kaiser, office: N-336

GREENFIELD COMMUNITY COLLEGE CATALOG 1994-95 45
Computer Aided Drafting

The Certificate: Computer Aided Drafting
The Program: develops skills in drafting with the assistance of computers, as well as related mathematical and written communication skills.
Your Next Step: work in an entry level position in computer-aided drafting or integrate some of the courses into the college’s industrial technology or engineering science degrees.

Required Courses

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ADM 106</td>
<td>1</td>
</tr>
<tr>
<td>DAT 111 Introduction to Computers, or DAT 148 C Programming for Programmers, or DAT 147 Pascal Programming</td>
<td>3</td>
</tr>
<tr>
<td>DAT 133 Graphics Applications</td>
<td>1</td>
</tr>
<tr>
<td>EGR 107 Engineering Graphics I</td>
<td>3</td>
</tr>
<tr>
<td>EGR 108 Engineering Graphics II</td>
<td>3</td>
</tr>
<tr>
<td>EGR 110 Engineering Graphics Project</td>
<td>3</td>
</tr>
<tr>
<td>ENG 101, 103, or 105 English Composition I</td>
<td>3</td>
</tr>
<tr>
<td>ENG 123 Report Writing</td>
<td>3</td>
</tr>
<tr>
<td>MAT 103 Applied Mathematics I and MAT 104 Applied Mathematics II, or MAT 105 Algebra and Coordinate Geometry I and MAT 106 Algebra and Coordinate Geometry II</td>
<td>6</td>
</tr>
</tbody>
</table>

TOTAL 26

Program Coordinator: Dr. Lee A Webster
office: N-414

Except for ADM 106, no course taken for credit/no credit will fulfill the graduation requirements of this program.
Computer Assisted Bookkeeping

The Certificate: Computer Assisted Bookkeeping

The Program: develops business math and English skills, provides an understanding of business organization and practices, and includes extensive hands-on experience with manual and computerized bookkeeping.

Your Next Step: this two-semester program is designed to prepare students for entry-level bookkeeping positions with local businesses, professional offices, or CPA firms.

**Required Courses**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACC 111</td>
<td>Basic Accounting I</td>
<td>3</td>
</tr>
<tr>
<td>ACC 112</td>
<td>Basic Accounting II</td>
<td>3</td>
</tr>
<tr>
<td>ADM 106</td>
<td>Keyboarding for Information Processing</td>
<td>1</td>
</tr>
<tr>
<td>BUS 105</td>
<td>Mathematics for Business</td>
<td>3</td>
</tr>
<tr>
<td>BUS 111</td>
<td>Introduction to Business</td>
<td>3</td>
</tr>
<tr>
<td>BUS 123</td>
<td>Business Communication</td>
<td>3</td>
</tr>
<tr>
<td>DAT 114</td>
<td>Microcomputer Software Tools</td>
<td>3</td>
</tr>
<tr>
<td>ENG 100</td>
<td>College Writing Strategies</td>
<td>3</td>
</tr>
<tr>
<td>ENG 101, 103, or 105</td>
<td>English Composition I</td>
<td>3</td>
</tr>
</tbody>
</table>

**TOTAL 25**

Program Coordinator: Dr. Robert J. Welsh

office: N-316

---

Early Childhood Education

The Certificate: Licensure for Early Childhood Educators

The Program: provides the courses required by the Massachusetts Office for Children for those seeking licensure as head teachers in preschool settings. These five required courses in combination with 27 months of classroom experience qualify you for licensure. The program is recommended for those who are now working as aides, or who are interested in working with young children.

Your Next Step: work in preschools or enter an associate degree program.

**Required Courses**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDU 101</td>
<td>Introduction to Early Childhood Education</td>
<td>3</td>
</tr>
<tr>
<td>EDU 103</td>
<td>Creative Experiences in Art, Music, Drama, and Dance</td>
<td>3</td>
</tr>
<tr>
<td>EDU 201</td>
<td>Early Childhood Curriculum</td>
<td>3</td>
</tr>
<tr>
<td>PSY 101</td>
<td>Principles of Psychology</td>
<td>3</td>
</tr>
<tr>
<td>PSY 217</td>
<td>Human Growth and Development</td>
<td>3</td>
</tr>
</tbody>
</table>

**TOTAL 15**

Program Coordinator: Nancy T. Winter

office: N-213

---

Greenfield Community College Catalog 1994-95 47
Elder Recreational Services

The Certificate: Elder Recreational Services

The Program: Provides the courses required by the National Certification Council for Activity Professionals for certification as an activity consultant, director, or assistant. The program is recommended for those currently working in the field as well as those interested in pursuing a career in elder recreational services.

Coursework is designed with an elder recreational focus that addresses the realities of working in a variety of settings with dependent elders (nursing homes, adult daycare centers, community outreach programs). Establishes competence in assessing, planning, and delivering programs geared to meet elders' leisure needs.

Your Next Step: begin or continue a career in elder recreational services, continue in the RLS associate degree program, and/or transfer to a baccalaureate degree-awarding college or university that offers advanced degrees in related fields.

Required Courses

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>RLS 103 Recreational Arts Programming</td>
<td>3</td>
</tr>
<tr>
<td>RLS 104 Introduction to Elder Recreational Services I</td>
<td>3</td>
</tr>
<tr>
<td>RLS 105 Introduction to Elder Recreational Services II</td>
<td>3</td>
</tr>
<tr>
<td>RLS 109 Leisure Programming</td>
<td>3</td>
</tr>
<tr>
<td>RLS 131 Introduction to Therapeutic Recreation</td>
<td>3</td>
</tr>
<tr>
<td>RLS 163 Wellness for Life</td>
<td>3</td>
</tr>
<tr>
<td>RLS 214 Field Practicum in Elder Recreational Services, or RLS 215 Field Practicum in Recreation and Leisure Services I</td>
<td>3 or 4</td>
</tr>
<tr>
<td>RLS 251 Contemporary Trends and Issues</td>
<td>3</td>
</tr>
</tbody>
</table>

TOTAL 24-25

Program Coordinator: Jeanne A. Ashley
office: N-112

Emerging Careers

The Certificate: Emerging Careers

The Program: develops competencies in math, English, human relations and skills in the use of microcomputers in the business setting. The program also includes career exploration opportunities in emerging industries in the Franklin/Hampshire County area.

Your Next Step: work in an entry-level position in an emerging industry or continue your education to earn an associate degree with an emphasis in an emerging industry field.

This program may require a different admission process. Please consult the program coordinator or the admission office for additional information.

***Continued on next page***
Emerging Careers, continued

**Required Courses**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ADM 106 Keyboarding for Information Processing</td>
<td>1</td>
</tr>
<tr>
<td>BUS 111 Introduction to Business</td>
<td>3</td>
</tr>
<tr>
<td>DAT 114 Microcomputer Software Tools</td>
<td>3</td>
</tr>
<tr>
<td>ENG 101, 103, or 105 English Composition I</td>
<td>3</td>
</tr>
<tr>
<td>ENG 112, 114, or 116 English Composition II</td>
<td>3</td>
</tr>
<tr>
<td>HUD 101 Study Skills</td>
<td>1</td>
</tr>
<tr>
<td>HUD 109 Career Decision-Making and Planning</td>
<td>2</td>
</tr>
<tr>
<td>HUD 113 Job Search Training</td>
<td>1</td>
</tr>
<tr>
<td>MAT course (by placement examination)</td>
<td>3</td>
</tr>
<tr>
<td>PSY 101 Principles of Psychology</td>
<td>3</td>
</tr>
<tr>
<td>SCI 111 Survey of Science and Technology</td>
<td>3</td>
</tr>
<tr>
<td>Elective (optional)</td>
<td>1-3</td>
</tr>
</tbody>
</table>

**TOTAL 27-29**

Program Coordinator: Judi Singley  
office: N-205

**Human Services**

The Certificate: Human Services

The Program: provides training for entry-level human service employment. Also provides opportunities for training those already employed in the field.

Your Next Step: Work in the human services field or transfer to the Liberal Arts/Human Services Option and prepare to transfer to a baccalaureate degree-awarding program.

**Required Courses**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENG 101, 103, or 105 English Composition I</td>
<td>3</td>
</tr>
<tr>
<td>ENG 112, 114, or 116 English Composition II</td>
<td>3</td>
</tr>
<tr>
<td>PSY 101 Principles of Psychology</td>
<td>3</td>
</tr>
<tr>
<td>PSY 217 Human Growth and Development</td>
<td>3</td>
</tr>
<tr>
<td>HSV 101 Introduction to Human Services</td>
<td>3</td>
</tr>
<tr>
<td>HSV 115 Introduction to Interviewing and Counseling</td>
<td>3</td>
</tr>
<tr>
<td>HSV 215 Counseling Skills</td>
<td>3</td>
</tr>
<tr>
<td>HSV 151 Topics in Human Services</td>
<td>2</td>
</tr>
<tr>
<td>BC or BL elective</td>
<td>3</td>
</tr>
<tr>
<td>Elective</td>
<td>3</td>
</tr>
</tbody>
</table>

**TOTAL 29**

Program Coordinator: Dr. L. Edward Dolhenty  
office: N-207
Office Assistant

The Certificate: Office Assistant

The Program: provides students with basic office skills.

Your Next Step: enter the office workplace in such positions as entry-level secretary or clerk-typist.

### Required Courses

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACC 111 Basic Accounting I</td>
<td>3</td>
</tr>
<tr>
<td>*ADM 111 Typewriting Development I</td>
<td>3</td>
</tr>
<tr>
<td>*ADM 113 Typewriting Development II</td>
<td>3</td>
</tr>
<tr>
<td>ADM 119 Business English</td>
<td>3</td>
</tr>
<tr>
<td>ENG 101, 103, or 105 English Composition I</td>
<td>3</td>
</tr>
<tr>
<td>PSY 101 Principles of Psychology</td>
<td>3</td>
</tr>
<tr>
<td>SPE 101 Oral Communication: Public Speaking</td>
<td>3</td>
</tr>
</tbody>
</table>

**Program Electives** (Select three courses from the following)

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>†ACC 112 Basic Accounting II</td>
<td>3</td>
</tr>
<tr>
<td>ADM 101 Shorthand I</td>
<td>3</td>
</tr>
<tr>
<td>†ADM 102 Shorthand II</td>
<td>3</td>
</tr>
<tr>
<td>†ADM 205 Principles of Word Processing</td>
<td>3</td>
</tr>
<tr>
<td>†ADM 206 Word Processing/</td>
<td>3</td>
</tr>
<tr>
<td>Machine Transcription</td>
<td></td>
</tr>
<tr>
<td>ADM 210 Records Management</td>
<td>3</td>
</tr>
<tr>
<td>BUS 105 Mathematics for Business</td>
<td>3</td>
</tr>
<tr>
<td>BUS 111 Introduction to Business</td>
<td>3</td>
</tr>
<tr>
<td>BUS 123 Business Communication</td>
<td>3</td>
</tr>
</tbody>
</table>

**TOTAL 30**

Program Coordinator:

Dr. Robert J. Welsh
office: N-316

* Typing course entry level to be determined at the time of enrollment.

† These courses have prerequisites which must be met. Please consult the catalog course descriptions.
Outdoor Leadership

The Certificate: Outdoor Leadership

The Program: provides students with the skills and knowledge needed to lead outdoor-oriented programs and services. You will learn by doing: activities are primarily field-oriented, with theoretical and informational aspects carefully integrated with hands-on training. You may select from one of two emphases: Challenge/Adventure or Environmental Education/Interpretation. The Challenge/Adventure emphasis prepares you to lead in such outing sports as rock climbing, flat and white water canoeing, cross country skiing, and survival, and in adventure programs such as ropes courses and wilderness mountaineering. The Environmental Education/Interpretation focuses on the natural and cultural environment, and activities and strategies for sharing it with others.

Your Next Step: if you choose the Adventure Emphasis, you will be prepared to work in outdoor pursuits centers, adventure-based counseling programs, and general adventure programs such as Outward Bound Schools. If you choose the Environmental Emphasis, your employment options will include work in outdoor environmental education centers, environmental action agencies, and with national environmental organizations such as the National Park Service. Or, you may also choose to continue your education in recreation/leisure services, human services or education. Many graduates attend more advanced training programs in specialized environmental training, or prepare for jobs such as wilderness emergency medical technician.

This program requires a different admission process. Please contact the program coordinator or the admission office for additional information.

Required Courses

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>OLP 112 Counseling and Human Services for Outdoor Leaders</td>
<td>3</td>
</tr>
<tr>
<td>OLP 116 Field Experience in Outdoor Leadership I</td>
<td>4</td>
</tr>
<tr>
<td>OLP 120 Backcountry Medicine and Emergency Care</td>
<td>3</td>
</tr>
<tr>
<td>OLP 201 Individual Project in Outdoor Leadership I</td>
<td>1</td>
</tr>
<tr>
<td>OLP 202 Individual Project in Outdoor Leadership II</td>
<td>2</td>
</tr>
<tr>
<td>OLP 216 Field Experience in Outdoor Leadership II</td>
<td>4</td>
</tr>
</tbody>
</table>

Adventure Emphasis—Required Courses

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>OLP 111 Intro. to Outdoor Adventure Programs and Services</td>
<td>3</td>
</tr>
<tr>
<td>OLP 124 Environmental Interpretation</td>
<td>3</td>
</tr>
<tr>
<td>OLP 127 Outdoor Adventure Methods and Materials</td>
<td>3</td>
</tr>
<tr>
<td>*OLP 140 Rock Climbing</td>
<td>1</td>
</tr>
<tr>
<td>*OLP 141 Flat Water Canoeing</td>
<td>1</td>
</tr>
<tr>
<td>*OLP 142 Cross Country Skiing</td>
<td>1</td>
</tr>
<tr>
<td>*OLP 143 Winter Camping</td>
<td>1</td>
</tr>
<tr>
<td>*OLP 144 Survival Education</td>
<td>1</td>
</tr>
<tr>
<td>*OLP 145 White Water Canoeing</td>
<td>1</td>
</tr>
<tr>
<td>OLP 205 Outdoor Leadership Seminar</td>
<td>3</td>
</tr>
</tbody>
</table>

TOTAL 33

* Minimum requirement is four of the six outing sports (OLP 140-145)

***Continued on next page***
Outdoor Leadership, continued

**Environmental Emphasis—Required Courses**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>HUM 113</td>
<td>Introduction to the Pioneer Valley</td>
<td>3</td>
</tr>
<tr>
<td>OLP 151</td>
<td>Introduction to Environmental Programs and Services</td>
<td>3</td>
</tr>
<tr>
<td>OLP 155</td>
<td>Environmental Field Studies I</td>
<td>3</td>
</tr>
<tr>
<td>OLP 156</td>
<td>Environmental Field Studies II</td>
<td>3</td>
</tr>
<tr>
<td>OLP 157</td>
<td>Environmental Education/Interpretation Methods and Materials</td>
<td>3</td>
</tr>
<tr>
<td>OLP 206</td>
<td>Seminar in Environmental Issues</td>
<td>3</td>
</tr>
</tbody>
</table>

**TOTAL 35**

Program Coordinator: Katherine P. Douglas

**Advanced Outdoor Leadership**

**Required Courses**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>OLP 211</td>
<td>Advanced Outdoor Programs and Services</td>
<td>3</td>
</tr>
<tr>
<td>OLP 212</td>
<td>Counseling and Human Services for Outdoor Leaders II</td>
<td>3</td>
</tr>
<tr>
<td>OLP 217</td>
<td>Field Experience in Outdoor Leadership III</td>
<td>4</td>
</tr>
<tr>
<td>OLP 218</td>
<td>Field Experience in Outdoor Leadership IV</td>
<td>4</td>
</tr>
<tr>
<td>OLP 220</td>
<td>Intermediate and Advanced Wilderness First Aid and Emergency Care</td>
<td>3</td>
</tr>
<tr>
<td>OLP 224</td>
<td>Environmental Interpretation II</td>
<td>3</td>
</tr>
<tr>
<td>OLP 227</td>
<td>Advanced Outdoor Adventure Methods and Materials</td>
<td>3</td>
</tr>
<tr>
<td>*OLP 240</td>
<td>Intermediate and Advanced Rock Climbing</td>
<td>1</td>
</tr>
<tr>
<td>*OLP 241</td>
<td>Intermediate and Advanced Flat Water Canoeing</td>
<td>1</td>
</tr>
<tr>
<td>*OLP 242</td>
<td>Intermediate and Advanced Cross Country Skiing</td>
<td>1</td>
</tr>
<tr>
<td>*OLP 243</td>
<td>Intermediate and Advanced Winter Camping</td>
<td>1</td>
</tr>
<tr>
<td>*OLP 244</td>
<td>Intermediate and Advanced Survival Education</td>
<td>1</td>
</tr>
<tr>
<td>*OLP 245</td>
<td>Intermediate and Advanced White Water Canoeing</td>
<td>1</td>
</tr>
</tbody>
</table>

**TOTAL 29**

*Minimum requirement is 4 of the 6 outing sports (OLP 240-245)*

Program Coordinator: Katherine P. Douglas

All Outdoor Leadership Program courses are graded on a CR/NC basis with letter grade option available.
Pathways to Health Careers

The Certificate: Pathways to Health Careers

The Program: prepares students for rewarding careers in high demand health occupations emphasizing a focus on techniques for successful job search, educational planning as well as lifetime career development.

Your Next Step: begin a career in a health occupation or continue educational training in preparation for a health occupation.

This program may require a different admission process. Please contact the program coordinator or the admission office for additional information.

Required Courses: 

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ADM 106</td>
<td>1</td>
</tr>
<tr>
<td>ADM 122</td>
<td>3</td>
</tr>
<tr>
<td>DAT 114</td>
<td>3</td>
</tr>
<tr>
<td>ENG 101, 103, or 105</td>
<td>3</td>
</tr>
<tr>
<td>HUD 109</td>
<td>2</td>
</tr>
<tr>
<td>HUD 113</td>
<td>1</td>
</tr>
<tr>
<td>MAT 100</td>
<td>3</td>
</tr>
<tr>
<td>PSY 101</td>
<td>3</td>
</tr>
<tr>
<td>SOC 101</td>
<td>3</td>
</tr>
<tr>
<td>Electives (select two from the list below)</td>
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</tr>
</tbody>
</table>

TOTAL 28–29

Electives

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIO 105</td>
<td>4</td>
</tr>
<tr>
<td>CHE 105</td>
<td></td>
</tr>
<tr>
<td>CHE 111</td>
<td>3 or 4</td>
</tr>
<tr>
<td>ENG 112, 114, or 116</td>
<td>3</td>
</tr>
<tr>
<td>SPE 101</td>
<td></td>
</tr>
<tr>
<td>SPE 121</td>
<td>3</td>
</tr>
</tbody>
</table>

Program Coordinators:
Margaret Craig, R.N., M.S.N., office S-423
Jan Kaiser, office N-336
Physical Fitness

The Certificate: Physical Fitness

The Program: establishes competence in fitness testing and personalized fitness programming. Courses concentrate on anatomy, exercise physiology, nutrition, and the planning and administration of fitness programs and services.

Your Next Step: begin a career as a commercial or corporate fitness specialist, continue in the RLS associate degree program, and/or transfer to a baccalaureate degree-awarding institution offering advanced degrees in exercise science.

Required Courses

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>LED 256</td>
<td>1</td>
</tr>
<tr>
<td>LED 157</td>
<td>1</td>
</tr>
<tr>
<td>RLS 109</td>
<td>4</td>
</tr>
<tr>
<td>RLS 119</td>
<td>3</td>
</tr>
<tr>
<td>RLS 163</td>
<td>3</td>
</tr>
<tr>
<td>RLS 180</td>
<td>3</td>
</tr>
<tr>
<td>RLS 200</td>
<td>3</td>
</tr>
<tr>
<td>RLS 207</td>
<td>4</td>
</tr>
<tr>
<td>RLS 212</td>
<td>3</td>
</tr>
<tr>
<td>RLS 213</td>
<td>3</td>
</tr>
<tr>
<td>TOTAL</td>
<td>28</td>
</tr>
</tbody>
</table>

Program Coordinator: Jeanne A. Ashley
office: N-112

Pioneer Valley Studies

The Certificate: Pioneer Valley Studies

The Program: is designed for those interested in increasing their knowledge of the historical and cultural resources of the Pioneer Valley, and in learning to recognize, understand, and preserve cultural artifacts.

Your Next Step: completion of the associate degree program in Pioneer Valley Studies.

Required Courses

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>HIS 107 Valley/American History I</td>
<td>3</td>
</tr>
<tr>
<td>HIS 108 Valley/American History II</td>
<td>3</td>
</tr>
<tr>
<td>HUM 113 Introduction to the Pioneer Valley</td>
<td>3</td>
</tr>
<tr>
<td>ECO 111 Valley Contemporary Economic Issues</td>
<td>3</td>
</tr>
<tr>
<td>Valley Studies Electives</td>
<td>18</td>
</tr>
<tr>
<td>TOTAL</td>
<td>30</td>
</tr>
</tbody>
</table>

***Continued on next page***
Pioneer Valley Studies, continued

Valley Studies Electives (3 credits each are required in literature and art)

- ART 105 Valley/American Art & Architecture I 3
- ART 106 Valley/American Art & Architecture II 3
- ECO 109 Valley Industrial and Economic Development 3
- ENG 203 American Literature I 3
- ENG 204 American Literature II 3
- ENG 253 Valley/American Literature 3
- FLK 219 Valley Folklife 3
- GEO 103 Valley Geology 3
- HIS 217 Valley/American Ethnic Experience 3
- HUM 119 Women in the Valley 3

Program Coordinator: Dr. Joan Ibish
Office: S-321

Practical Nursing

The Certificate: Practical Nursing

The Program: prepares you for a career as a practical nurse, who provides direct and competent bedside care for adults and children in nursing homes and hospitals. You will be required to take a rigorous combination of liberal arts and clinical nursing courses over 40 weeks between September and the end of June.

Your Next Step: Take the LPN licensure examination and enter the LPN work force and/or continue your education in an RN program. A direct articulation agreement exists with GCC's associate degree nursing program.

Prerequisites for this program: high school diploma or GED; entrance exam.

Practical nursing requires a special admission process. An admission packet is available from the Director of Admission with detailed program requirements and admission procedures.

Required Courses

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIO 117 Introduction to the Human Body</td>
<td>4</td>
</tr>
<tr>
<td>NUR 103 Fundamentals of Practical Nursing</td>
<td>11</td>
</tr>
<tr>
<td>NUR 105 Practical Nursing Practicum</td>
<td>2</td>
</tr>
<tr>
<td>NUR 107 Nursing Care of Clients and Families</td>
<td>14</td>
</tr>
<tr>
<td>NUR 109 Advanced Concepts in Practical Nursing</td>
<td>5</td>
</tr>
<tr>
<td>PSY 101 Principles of Psychology</td>
<td>3</td>
</tr>
<tr>
<td>PSY 217 Human Growth and Development</td>
<td>3</td>
</tr>
</tbody>
</table>

TOTAL 42

Program Coordinator: Virginia Wahl, R.N., M.S.N.
Office: Smith Vocational High School, Northampton
Real Estate

The Certificate: Real Estate

The Program: is designed for students desiring to enter the real estate field as a licensed salesperson. Students are prepared to take the state licensing exam after the first semester. Selling and business communication skills, business computer usage, and daily operations of a real estate business are emphasized. Students are expected to possess basic touch keyboarding skills equivalent to ADM 106 upon entrance into this program.

Your Next Step: find employment in the real estate field.

Required Courses

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUS 105</td>
<td>Mathematics for Business</td>
<td>3</td>
</tr>
<tr>
<td>BUS 111</td>
<td>Introduction to Business</td>
<td>3</td>
</tr>
<tr>
<td>BUS 119</td>
<td>Principles of Real Estate</td>
<td>3</td>
</tr>
<tr>
<td>BUS 121</td>
<td>Real Estate Practices</td>
<td>3</td>
</tr>
<tr>
<td>BUS 123</td>
<td>Business Communication</td>
<td>3</td>
</tr>
<tr>
<td>BUS 125</td>
<td>Principles of Advertising</td>
<td>3</td>
</tr>
<tr>
<td>BUS 155</td>
<td>Business Law I</td>
<td>3</td>
</tr>
<tr>
<td>BUS 213</td>
<td>Personal Selling and Sales Techniques</td>
<td>3</td>
</tr>
<tr>
<td>DAT 114</td>
<td>Microcomputer Software Tools</td>
<td>3</td>
</tr>
</tbody>
</table>

TOTAL 27

Program Coordinator: Dr. Robert J. Welsh
office: N-316
Re-entry

The Certificate: Re-entry

The Program: provides a structured and supportive environment for students who are returning to education after a significant lapse of time. Students take most of their courses together; special attention is given to raising skill and confidence levels.

The 1994-95 Re-entry Program is for women who have been away from education for five years.

Your Next Step: full integration into an associate degree or certificate program.

Required Courses

Credits
ADM 106 Keyboarding for Information Processing, if necessary 1
DAT 131 Word Processing on Microcomputers ................. 1
ENG 101 English Composition I ......................... 3
ENG 112 English Composition II ......................... 3
HUD 109 Career Decision Making and Planning ........... 2
HUD 117 Stress Management ................................ 2
IDS 101 College Success .................................... 3
IDS 115 Introduction to Women's Studies, or Other Designated Elective ................. 3
MAT (by placement exam) ..................................... 3
Electives ...................................................... 6

TOTAL 26-27

Program Coordinator: Dr. Anne M. Wiley
office: N-210

Word Processing

The Certificate: Word Processing

The Program: is designed for administrative assistants, secretaries, typists, and clerks seeking advanced word processing skills.

Your Next Step: continue or upgrade your employment in office occupations.

Required Courses

Credits
ADM 113 Typewriting Development II ......................... 3
ADM 119 Business English .................................... 3
ADM 205 Principles of Word Processing ....................... 3
ADM 206 Word Processing/Machine Transcription ............ 3
BUS 123 Business Communications ................................ 3

TOTAL 15

Program Coordinator: Dr. Robert J. Welsh
office: N-316


COOPERATIVE EDUCATION

Cooperative education provides a systematic method of combining classroom instruction with supervised, on-the-job, learning experiences. Through GCC's "Co-op" program, you may earn academic credit by taking advantage of employment opportunities in your major field of study. In order to participate in the program, you must have completed at least one semester of coursework (12 credits) with a cumulative grade point average of 2.0 or better and successfully completed English Composition I.

Co-op provides opportunities for students to gain an orientation to the world of work and to explore career choices. Students are also paid by the employer as entry-level employees in their field. Co-op experiences often lead to future employment as employers can make informed hiring decisions on actual job performance.

Upon acceptance, a faculty coordinator and co-op placement specialist work with you to secure a qualified employment position. A learning contract is then developed between you and the faculty coordinator, outlining the learning goals and objectives and the criteria to be used in grading. In addition to the job placement, you are required to attend a one-hour per week seminar.

Three seminars are offered in Cooperative Education, each awarding between one and five credits. These courses are listed in the course descriptions section. For more information or an application, call (extension 291) or stop by the Office of Cooperative Education in the north end on the second floor of the college (Room N-237A).
DIRECTED STUDY

You may undertake individual study beyond the course offerings of the college by using the Directed Study option. To do so, you must make arrangements with an instructor to work with you on the project and gain the approval of the appropriate associate dean.

Directed study courses use a three-letter department code and either a 295 or 296 number designation. You may earn a maximum of six credits through the directed study option in any one subject. To obtain additional information and application materials, contact the Registrar's Office in Student Services Center, second floor, core; or a group office: Group I, Behavioral Sciences, N-215; Group II, Humanities, S-322; Group III, Math/Natural Sciences/Business, N-421.

LEARNING ASSISTANCE PROGRAMS

The Learning Assistance Programs offer services to help students improve study skills, build confidence and clarify goals. If you find yourself in need of academic help, if you are experiencing stress from personal problems, or if you are having trouble keeping up with school work, we urge you to visit the Learning Assistance Center on the fourth floor of the college. Services include:

PEER TUTORING: Tutoring is provided for any GCC student who needs help with course work and who wishes to improve academic performance. Tutors meet with students and assist them in a process of active learning.

MATH ASSISTANCE PROGRAM: A staff member coordinates academic assistance for students, has regular office hours and is available by appointment.

WRITING ASSISTANCE PROGRAM: A staff member coordinates academic assistance for students, has regular office hours and is available by appointment.

COUNSELING: Counseling by trained professionals is available for GCC students. Counseling helps students learn to take charge of their lives by using their intellectual, emotional and motivational resources to accomplish their goals. Both individual sessions and support groups are available. All meetings are confidential and free of charge. Referrals to community agencies can also be arranged.

CAREER PLANNING: Another focus of the Learning Assistance Program is exploration of the world of work and preparation for entry into it. Making career plans is an important task that does not have to be done alone.

SERVICES FOR STUDENTS WITH DISABILITIES: Students come to GCC with a variety of special learning needs. Counselors are available to explore the ways each student learns best, to develop individual learning profiles, and to assist with the advocacy process with each student.
All credit courses and a few non-credit courses which the college may offer are described on the following pages. Non-credit courses use numbers 000-099. Introductory level and first-year credit courses use numbers 100-199. Intermediate level and advanced credit courses use numbers 200-299.

A course with an asterisk (*) is a course that meets the University of Massachusetts' cultural diversity requirement.

Please note: we do not offer all courses described on the following pages each semester. You should refer to the appropriate semester class schedule for those courses which we will offer that semester.

**ACCOUNTING**

**ACC 103 Analysis of Financial Statements (X)**
3 cr
Interpretation and analysis of financial statements; cost allocation procedures, break-even analysis, the budgeting process, preparation of flexible and rolling budgets.
Prereq: None

**ACC 111 Basic Accounting I (X)**
3 cr
Prereq: None

**ACC 112 Basic Accounting II (X)**
3 cr
Continuation of Basic Accounting I. Emphasis on preparation of financial records, forms, and documents common to business. Payroll tax procedures and preparation of financial reports also included. Microcomputers will be used to accomplish many of the general ledger accounting functions.
Prereq: ACC 111 or ACC 121
ACC 121 Introduction to Accounting I (X) 4 cr
Business transactions and their relationship to financial statements; procedures and techniques of recording business transactions; consideration of end-of-period adjustments; determination of periodic income and financial condition; preparation of work sheet and financial statements; analysis of basic elements of the balance sheet; completion of practical exercise for a sole proprietorship.
Prereq: None

ACC 122 Introduction to Accounting II (X) 4 cr
Continuation of Introduction to Accounting I. Topics include special techniques of accounting for inventories, plant and equipment, payroll, and a review of basic accounting principles and concepts. The second part of this course looks at the problems of accounting for equity in partnerships and corporations, and bond, leases, and other liabilities. The third part of the course deals with the preparation and use of statements of change in financial position and the analysis and interpretation of financial statements.
Prereq: ACC 121

ACC 131 Practical Applications of Management Accounting (X) 3 cr
This is a practical course designed for those students who will be required to utilize financial information to prepare specialized reports for management decision-making. The emphasis of the course will be on applications for small non-manufacturing businesses. Topics will include: cost behavior with break-even analysis and cost-volume-profit analysis; budgeting and the development and application of standard costs; the job order cost cycle; and the controlling and valuing of inventory. This course will require the utilization of the student's computer facility, and Lotus 1-2-3.
Prereq: ACC 112 or 122 and DAT 114 or 129

ACC 203 Managerial Accounting (X) 3 cr
Introduces the process of gathering and analyzing accounting data for use by managers in planning, decision-making, and controlling. Basic cost accounting concepts, cost-volume-profit relationships, capital investment decisions, and budgeting are studied. Use of Lotus 1-2-3 is included.
Prereq: ACC 122

ACC 205 Cost Accounting I (X) 3 cr
Basic techniques of cost accounting including job order process costing, establishing overhead rates, analysis of overhead variances, and development of standard costs. Use of Lotus 1-2-3 is included.
Prereq: ACC 203

ACC 207 Financial Accounting Systems and Procedures (X) 3 cr
Designed as a final course in Financial Accounting for Accounting Associate majors. The course will emphasize internal control concepts and techniques as they apply to small and medium-sized financial accounting systems. Topics to be covered include: an overview of flowcharting and basic internal controls in an Accounting System, creation and indexing of work papers, complexities of Bank Reconciliations, using work sheets as a general ledger, conversion of trial balance from a cash basis to the accrual basis, depreciation - schedules and controls, an overview of payroll accounting systems, and the completion of tax forms. Completion of two practice sets required.
Prereq: ACC 112 or ACC 122

ACC 251 Cooperative Work Experience in Accounting (X) 3 cr
Supervised employment in either a cost accounting department of a local industrial concern or a public accounting office, combined with a seminar coordinating the employment situation with classroom education experience.
Prereq: Completion of ACC 203 with a grade of B- or above and simultaneous enrollment in ACC 205

ANTHROPOLOGY

ANT 101 Introduction to Anthropology* (BC) 3 cr
Theory and methods in relation to prehistory, evolution, and the nature of culture. Concentration on cross-cultural comparisons, technology and economics, social and political organization, art, religion, and ideology.
Prereq: None

ANT 102 Introduction to Archaeology (BC) 3 cr
An introduction to prehistory, the bulk of the human past, emphasizing what archaeologists really do and how they do it. This course surveys current methods and theories, the major findings of Old and New World archaeology, and the present worldwide crisis surrounding the loss of sites and information. Field trips in the northern New England area will be required, and some laboratory work will follow these trips.
Prereq: None

ANT 103 Introduction to Physical Anthropology (BC) 3 cr
The human species' place in nature from an evolutionary and ecological perspective; the interaction between biology, culture, and environment in shaping human evolution and human adaptive patterns; the significance of racial classifications and modern theories of variation.
Prereq: None

ANT 104 Introduction to Cultural Anthropology* (BC) 3 cr
The comparative study of contemporary human populations; analysis of variations in social and political organizations, economic systems, religion, myth and ritual; the dynamics of culture change and the role of the anthropologist.
Prereq: None

APPLIED COMMERCIAL PHOTOGRAPHY

ACP 101 Applied Commercial Photography (X) 12 cr
Teaches skills which prepare students to make and market visual images and operate a photographic studio or, to work for an established photographic concern. It includes approximately 950 clock hours of instruction in photography, 75 clock hours in finance, and 250 in management. Credit will be granted only upon successful completion of the program at the Hallmark Institute and 15 in-residence credits in the GCC Liberal Arts/Applied Commercial Photography Program. Graded on a credit/no credit basis.
APPLIED INDUSTRIAL TECHNOLOGY

ART 101 Introduction to the Visual Arts (HC) 3 cr
A study of the elements and principles of art, the materials and techniques. Development of style and the role of the artist in society are studied as a means of understanding art. Not available for credit to Art, Graphic Design, or Media majors.
Prereq: None

ART 103 Art History I* (HC) 3 cr
The vocabulary of art introduced through the study of contemporary art forms. Art of pre-history through the Gothic period is studied in traditional chronology. Emphasizes on visual awareness of formal elements, aesthetics, and components of style; and the role of the artist.
Prereq: None

ART 104 Art History II (HC) 3 cr
History of Western art from Renaissance to contemporary art, introduced by a review of the elements of style in Gothic architecture.
Recomm: ART 103

ART 105 Valley/American Art and Architecture I (HC) 3 cr
A survey of American art and architecture from 1600 to 1860; the course will be supplemented by correlated examples from the Pioneer Valley. The study will include decorative and functional arts. Field trips and independent study are required.
Prereq: None

ART 106 Valley/American Art and Architecture II (HC) 3 cr
A comprehensive survey of American art and architecture from 1860 to the present; the course will include appropriate examples of work created or presently existing in the Pioneer Valley. Field trips are required.
Prereq: None

ART 107 History of Modern Art (HC) 3 cr
A survey of modern visual art from Post-Impressionism to the present. Although the emphasis is on the art of painting, major expressions in sculpture and architecture are also studied. Field trips are required.
Prereq: None

ART 111 Introduction to Studio (HL) 3 cr
An introduction to the elements of design, visual organization, and color. Not available for credit for Art, Graphic Design, or Media majors.
Prereq: None

ART 117 Introduction to Drawing (HL) 3 cr
An introduction to basic drawing principles, materials, and techniques. Not available for credit for Art, Graphic Design, or Media majors.
Prereq: None

ART 118 Fundamentals of Drawing: Perspective (HL) 3 cr
An introduction to the mechanics and use of perspective in drawing.
Prereq: ART 131 or concurrently with ART 131

ART 119 Fundamentals of Drawing: Anatomy and Structure (HL) 3 cr
An introduction to figure drawing with emphasis on the skeletal and muscular anatomy and the structure of the human form.
Prereq: ART 131 or concurrently with ART 131

ART 121 Two-Dimensional Design (HL) 3 cr
Introduction to the visual vocabulary through an investigation of two-dimensional order. Emphasis on the development of visual awareness, craftsmanship, and use of media and materials.
Prereq: None

ART 122 Design and Color (HL) 3 cr
An exploration of the physical structure of color and its interaction in application.
Recomm: ART 121

ART 131 Drawing I (HL) 3 cr
A series of problems designed to acquaint the student with perceptual and inventive skills in drawing. Introduction to drawing materials and techniques while examining ways of implying space on a two-dimensional surface.
Prereq: None

ART 132 Drawing II (HL) 3 cr
A continuation of Drawing I with emphasis on perceptual and inventive skills.
Prereq: ART 131 or permission of instructor

ART 151 Introduction to Photography (HL) 3 cr
Introduction to basic camera operation, processing, and printing. Students must provide their own cameras, film, and paper. Processing and darkroom equipment furnished.
Prereq: None

ART 155 Introduction to Video (HL) 3 cr
An introduction to video as a visual medium with an emphasis on the development of basic conceptual, critical, and technical skills.
Prereq: None

ART 161 Electronic Studio I (HL) 3 cr
An introduction to creating and manipulating images, graphical elements, and type via computers and electronic imaging software.
Prereq: None

Credit Courses
ART 162 Electronic Studio II (HL) 3 cr
A continuation of Electronic Studio I with a focus on developing personal expression through a project/problem orientation. Includes discussions of current themes and issues relative to the medium.
Prereq: ART 161, Recom: ART 121

ART 175 Desktop Publishing I (X) 3 cr
Introduces the student to the use of the personal computer for design, layout, and production of printed media. Through directed exercises and problems, students develop fundamental skills in the various processes involved in desktop publishing.
Prereq: None

ART 176 Desktop Publishing II (X) 3 cr
Students will further develop their layout and design skills, using page layout software on the computer. A series of assignments will give the student opportunities for exploration of practical and aesthetic concerns.
Prereq: ART 175 or permission of instructor

ART 231 Figure Drawing (HL) 3 cr
Drawing from the model with special attention to the analysis of form, anatomy, and structure.
Prereq: ART 119 and ART 132

ART 232 Drawing Problems (HL) 3 cr
Structure, organization, approach, problem-solving, and expressive concerns in drawing. Emphasis on thematic development.
Prereq: ART 231

ART 233 Printmaking I (HL) 3 cr
An introduction to the materials, processes, and aesthetic considerations peculiar to monoprint and intaglio.
Prereq: ART 121 and ART 132

ART 234 Printmaking II (HL) 3 cr
Continuation of Printmaking I, with concentration on lithography or intaglio. Emphasis on image development.
Prereq: ART 233

ART 241 Painting I (HL) 3 cr
An introduction to oil painting, composition, and construction. Emphasis on the properties of the materials and the approaches to representational and non-representational forms.
Prereq: ART 122 and ART 132

ART 242 Painting II (HL) 3 cr
A continuation of the disciplines of painting in oils and acrylics. Expression through exploration of the continuing problems of painting. Work from the model and a variety of sources.
Prereq: ART 241

ART 251 Photography IA (HL) 3 cr
Emphasis on the quality and range possibilities in photography. Students will explore their interests through project orientation. Issues and methodologies that concern the contemporary photographer will be discussed in relation to the projects chosen. May be repeated once for credit.
Prereq: ART 151

ART 252 Photography IB (HL) 3 cr
Continuation of Photography IA. Emphasis on the quality and range of possibilities in photography. Students continue to explore their interests through project orientation. Issues and methodologies that concern the contemporary photographer will be discussed in relation to the projects chosen.
Prereq: ART 251

ART 255 Video I-A (HL) 3 cr
An exploration of video as a visual medium using various electronic image-making techniques.
Prereq: ART 155

ART 256 Video I-B (HL) 3 cr
A continuation of Video I-A with an emphasis on the development of individual expression.
Prereq: ART 255

ART 257 Advanced Media Studio (HL) 3 cr
A problem-solving, investigative course dealing with the integration of graphic, photographic, and video media.
Prereq: ART 251 or ART 255

ART 271 Graphic Design I (X) 3 cr
Examination of graphic design processes with emphasis on typographical elements and their applications for the printed page. Problems in typographical structures, arrangements, sequence, and communications. Investigations based on visual principles.
Prereq: ART 122, ART 132, and ART 161

ART 272 Graphic Design II (X) 3 cr
Significant problems in graphic design, requiring practical solutions with aesthetic integrity. Psychological, sociological factors in the mass market are considered. Application of grid systems, symbol design, and information systems.
Prereq: ART 271

BIOLOGY

BIO 101 Zoology (NC) 4 cr
The animal kingdom, with emphasis on comparative structure and function of the organ systems and evolutionary relationships. Lab required.
Prereq: None

BIO 102 Botany (NC) 4 cr
Structure, function, and the inheritance of seed-bearing plants. Classification of major plant types and some basic plant ecology. Lab required.
Prereq: None

BIO 103 Ecology (NC) 4 cr
Environmental studies with emphasis on concepts of ecology, conservation of natural resources and their relationship to the quality of life. Lab sessions focus on forest, field, stream, and pond habitats, reinforced by field trips to local sites.
Prereq: None

BIO 104 Natural History (NC) 4 cr
Environmental studies with emphasis on natural history, climate, life zones, and conservation of natural resources. Lab required.
Prereq: None
BIO 105 Anatomy and Physiology I (NC) 4 cr
The study of human anatomy and physiology with emphasis on anatomy. The anatomy of the nine organ systems is studied using the structure of body parts and their relationship to one another. Lab required.
Prereq: High School chemistry within past ten years or permission of instructor

BIO 106 Anatomy and Physiology II (NC) 4 cr
The study of human anatomy and physiology with emphasis on physiology. The key concepts lead to a basic understanding of the physiological functions of the human body. The interrelationships of functional systems of the body are used to show maintenance of homeostasis. Lab required.
Prereq: High School chemistry within past ten years and BIO 105

BIO 111 Basic Horticulture (NC) 3 cr
Theory and practice of plant propagation and cultivation, including care of house plants and preparation of gardens.
Prereq: None

BIO 117 Introduction to the Human Body (NC) 4 cr
This overview of the gross structure and function of the human body will include laboratory experiences. Basic chemistry, nutrition, and physiological concepts will be included.
Prereq: Practical Nurse Certificate majors only

BIO 119 The Principles of Biology (NC) 4 cr
The study of living things as to: structures, functions, and processes including the mechanics of heredity and genetic engineering with biotechnology. Laboratory exercises will focus on genetic engineering.
Prereq: None

BIO 130 Human Nutrition (NL) 3 cr
The study of nutrition and its application to good health and a sense of well being. Applications of nutrition to physical fitness, preventive medicine, and health care.
Prereq: None

BIO 205 Microbiology (NC) 4 cr
Introduction to the biology of micro-organisms with emphasis on the properties of micro-organisms and their relation to disease. Lab required.
Prereq: BIO 101 or BIO 105

BIO 281 Interpretation of Diagnostic Laboratory Tests (NL) 3 cr
The study of current information on commonly ordered laboratory tests. Includes normal values, background, test explanation, and clinical information. This course is intended for practitioners and students in the health care areas.
Prereq: BIO 106

BUSINESS

BUS 103 Introduction to Marketing (A) 3 cr
The distribution of goods and services from producer to consumer. Structure of marketing institutions, price determination and policies; consumer and industrial marketing, market research; legislation affecting marketing.
Prereq: None

BUS 105 Mathematics for Business (X) 3 cr
Designed to meet the needs of business students. Aims to provide the mathematical background for success in the study of finance, accounting, and other business subjects.
Prereq: MAT 100 or placement by examination

BUS 107 Introduction to Federal Income Taxes (X) 3 cr
Designed to acquaint the student with the Federal Income Tax System. Emphasis is on the basic concepts of income recognition, deductible business and non-business expenses, and special tax calculations. Identification of the tax issue and proper research techniques for solving tax problems will also be stressed.
Prereq: ACC 112 or ACC 122

BUS 111 Introduction to Business (A) 3 cr
Introduces students to management, marketing, and financial considerations of business. Establishes economic and historical perspectives, as well as daily operation of a business.
Prereq: None

BUS 115 Labor-Management Relations (A) 3 cr
History and growth of the American labor movement, union policies and practices, collective bargaining and union security, and state and federal labor legislation.
Prereq: None

BUS 119 Principles of Real Estate (X) 3 cr
Surveys the principles of real estate. Designed for those who want to know more about the field for personal knowledge or for possible employment. Of help to those who intend to take a state real estate examination. Includes the legal, financial, brokerage, marketing, and other important aspects of the real estate business.
Prereq: None

BUS 121 Real Estate Practices (X) 3 cr
This course is designed to expand and build on Principles of Real Estate (BUS 119). Topics include obtaining listing property, appraisals, ethics and arbitration, advertising, legal aspects of real estate practices, and the daily operation of a real estate firm.
Prereq: BUS 119 or permission of instructor

BUS 123 Business Communication (X) 3 cr
Designed to familiarize students with the principles of effective communication. Emphasis is on planning, organizing, and writing a variety of business letters, Oral communication and basic telephone techniques also covered.
Prereq: ENG 101, 103, or 105

BUS 125 Principles of Advertising (X) 3 cr
An introduction to the field of advertising. Intended for those interested in the role of advertising in our business and economic structure. Emphasis on how a mass communication program should be developed.
Prereq: None

BUS 155 Business Law I (A) 3 cr
An introduction to the law as it pertains to transactions in business and commercial fields. Laws of contracts, social forces, and legal rights, bailments, and personal property transactions.
Prereq: None

For information on Advising Codes see inside back cover.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Description</th>
<th>Prerequisite(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUS 156</td>
<td>Business Law II (A)</td>
<td>3 cr</td>
<td>Operation of the law in business and commerce with emphasis on: laws of partnerships; corporation, insurance, agency, commercial paper, and bankruptcy.</td>
<td>BUS 155 or permission of instructor</td>
</tr>
<tr>
<td>BUS 163</td>
<td>Diversity Management (A)</td>
<td>3 cr</td>
<td>This course will focus on multi-cultural organizational development, and demonstrate how many of us find ourselves ill prepared to work or go to school in today's socially and culturally diverse society. An interdisciplinary approach (historical, sociological, and anthropological) will be used to understand cross-cultural differences.</td>
<td>None</td>
</tr>
<tr>
<td>BUS 203</td>
<td>Personnel Management (A)</td>
<td>3 cr</td>
<td>Personnel management, with practical emphasis on the major tasks of recruiting, training, maintaining, and using an effective work force.</td>
<td>BUS 111</td>
</tr>
<tr>
<td>BUS 205</td>
<td>Principles of Management (A)</td>
<td>3 cr</td>
<td>Fundamentals of the management of organizations. Introduces students to the process of management, including decision making and the role of the individual. Emphasis on the functions of management.</td>
<td>BUS 111; Recom: PSY 101</td>
</tr>
<tr>
<td>BUS 207</td>
<td>Operations Management (A)</td>
<td>3 cr</td>
<td>An introduction to the planning and control tools necessary to manage the transformation of resources into quality goods or services. The focus of the course will be on serving the customer. Examples from service, distribution, and manufacturing firms will be used. Topic will include demand forecasting and forecasting models, inventory models and the economics of inventory management including JIT, mathematical modeling and simulation, and the tools of quality—histograms, cause-and-effect diagrams, check sheets, pareto analysis, control charts, and scatter diagrams.</td>
<td>MAT 115</td>
</tr>
<tr>
<td>BUS 213</td>
<td>Personal Selling and Sales Techniques (X)</td>
<td>3 cr</td>
<td>Equips the student with a firm foundation for a sales career. Attention to general principles of selling and to building skills essential in the workplace. Emphasis on the selling cycles.</td>
<td>BUS 103 or permission of instructor</td>
</tr>
<tr>
<td>BUS 214</td>
<td>Retail Management (X)</td>
<td>3 cr</td>
<td>A practical approach to managing a retailing organization. Emphasis on current practices and trends, computer technology, and analyzing successful retailing operations.</td>
<td>BUS 103, BUS 111, or permission of instructor</td>
</tr>
<tr>
<td>BUS 215</td>
<td>Retail Buying and Merchandising (X)</td>
<td>3 cr</td>
<td>Practical methods for selecting, purchasing, and displaying goods for retail merchandising. Also, developing plans for seasonal selling and pricing strategies.</td>
<td>BUS 103, BUS 105, BUS 111 or permission of instructor</td>
</tr>
<tr>
<td>BUS 223</td>
<td>Marketing Problems (X)</td>
<td>3 cr</td>
<td>Designed as a capstone to the program. Emphasizes statistics applied to marketing; practical application of primary and secondary data and projects related to the student's individual work experiences.</td>
<td>BUS 211 or 213</td>
</tr>
<tr>
<td>BUS 251</td>
<td>Cooperative Work Experience in Marketing I (X)</td>
<td>3 cr</td>
<td>Supervised employment in the various channels of distribution combined with a seminar coordinating the employment situation with educational experience.</td>
<td>Completion of one academic year in Marketing</td>
</tr>
<tr>
<td>BUS 252</td>
<td>Cooperative Work Experience in Marketing II (X)</td>
<td>3 cr</td>
<td>Supervised employment in the various channels of distribution combined with a seminar coordinating the employment situation with educational experience.</td>
<td>BUS 251</td>
</tr>
</tbody>
</table>

**CHEMISTRY**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Description</th>
<th>Prerequisite(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHE 001</td>
<td>Chemical Calculations Workshop</td>
<td>0 cr</td>
<td>Applications of elementary mathematics to chemical calculations.</td>
<td>CHE 101 concurrently</td>
</tr>
<tr>
<td>CHE 105</td>
<td>Basic Principles of Chemistry (NC)</td>
<td>3 cr</td>
<td>A survey course for students interested in the basics of chemistry from a descriptive point of view. Includes matter, properties of families of compounds and their characteristic compounds, mixtures, acids and bases, chemical reactions, introductory biochemistry, environmental effect of chemistry. Could be the basis for coursework in selected technical areas, but not intended as a substitute for CHE 111, 112.</td>
<td>None</td>
</tr>
<tr>
<td>CHE 111</td>
<td>General Chemistry I (NC)</td>
<td>4 cr</td>
<td>Theoretical and descriptive topics of chemistry, including nature of matter, atomic and molecular structure, periodic properties of the elements, chemical bonding, nomenclature, stoichiometry, gaseous, liquid, and solid states. Lab required.</td>
<td>MAT 103 or MAT 107 concurrently or placement by examination</td>
</tr>
<tr>
<td>CHE 112</td>
<td>General Chemistry II (NC)</td>
<td>4 cr</td>
<td>Interrelated descriptive and theoretical topics of chemistry, including chemical kinetics, chemical equilibrium, acids and bases, solubility equilibria, free energy, entropy, equilibrium and free energy, electrochemistry, nuclear chemistry, environmental impact of chemistry. Some basic chemistry of metals and non-metals, as well as some organic chemistry concepts are covered in this course. Lab required.</td>
<td>CHE 111; MAT 104 or MAT 108 concurrently or placement by examination</td>
</tr>
<tr>
<td>CHE 201</td>
<td>Organic Chemistry I (NC)</td>
<td>4 cr</td>
<td>Introduction to the chemistry of carbon compounds. In-depth study of the structure, physical properties, and reactivity of alkanes, cycloalkanes, alkenes, alkynes, and conjugated unsaturated systems. Special topics integrated into the survey include conformational analysis, nucleophilic substitution, elimination reactions, electrophilic addition, and stereochemistry of chiral molecules. Lab required.</td>
<td>CHE 112</td>
</tr>
</tbody>
</table>
CHE 202 Organic Chemistry II (NC) 4 cr
In-depth study of aromatic compounds, physical methods of structure determination, organic halides, organometallic compounds, alcohols, phenols, ethers, aldehydes, ketones, carboxylic acids, carboxylic acid derivatives, amines, and amides. Examination of various classes of natural products. Introduction to biochemistry. Polymers and polymerization. Lab required.
Prereq: CHE 201

CHE 221 Chemical Processes (X) 3 cr
Survey of unit operations, refining, fermentation, isolation of natural products, forest products, pulp and papermaking, polymerization, heavy chemicals, organic syntheses, specialty chemicals, and formulations. Manufacturing control, material balance, and plant safety.
Prereq: CHE 111, 112, and 201

CHE 250 Introductory Organic Chemistry (NC) 4 cr
Introduction to the chemistry of carbon compounds with emphasis on the relationships between molecular structure and chemical properties. Systematic study of the various classes of organic compounds and the functionality of each including polymer chemistry. Survey of elementary biochemistry. Lab required.
Prereq: CHE 105, or CHE 111 and 112, or permission of instructor

CIV 101 Surveying I (X) 3 cr
Elements of plane surveying, taping, theory and use of instruments, leveling, traversing, and computation. Lab required.
Prereq: MAT 103 may be taken concurrently, or equivalent

CIV 102 Surveying II (X) 3 cr
Stadia, topographic surveying, mapping, instrument adjustment, photogrammetry, simple curves, office computations using topographic maps.
Prereq: CIV 101, MAT 104 may be taken concurrently

CRIMINAL JUSTICE

CRJ 101 Introduction to Criminal Justice (A) 3 cr
Agencies and processes involved in the criminal justice system including the legislature, the police, the prosecutor, the public defender, the courts, and corrections. An analysis of the roles and problems of the criminal justice system in a democratic society with an emphasis upon inter-agency relations and checks and balances.
Prereq: None

CRJ 103 Criminal Law (A) 3 cr
The legal definition of crime and defenses; purposes and functions of the substantive criminal law; historical foundations; the limits of the criminal law.
Prereq: None

CRJ 105 Police Process (X) 3 cr
Social and historical perspectives on the police; police role and career; police discretion; police values and cultures; police organization and control.
Prereq: CRJ 101 or permission of instructor

CRJ 107 Adjudication Process (X) 3 cr
Role and structure of prosecution, public defense and the courts; basic elements of the substantive criminal law; procedural law and its relation to constitutional guarantees.
Prereq: CRJ 101 and 103, or permission of instructor

CRJ 109 Corrections Process (X) 3 cr
Post conviction correction process; the development of correctional philosophy, theory and practice; a description of institutional operation, programming and management; community based correctional probation and parole. Field trips required.
Prereq: CRJ 101 or permission of instructor

CRJ 113 Juvenile Justice Process (A) 3 cr
Definition of delinquent behavior, contributing social problems; adolescence as a subculture; the adjudication process of juveniles; philosophy and practice; treatment procedures.
Prereq: CRJ 101 or permission of instruction

CRJ 121 Criminology (A) 3 cr
Deviant behavior as it relates to the definition of crime; crime statistics; theories of crime causation; crime typologies.
Prereq: None

Credit Courses

For information on Advising Codes see inside back cover.
CRJ 131 Social Issues in Criminal Justice (A) 3 cr
Designed to increase personal, professional, and academic awareness on contemporary issues in the criminal justice system, this course will provide students with opportunities to investigate social issues such as racism, sexism, and domestic violence. At the end of the course, students will have personal and practical awareness of these issues and their effects in the criminal justice system.
Prereq: None

CRJ 203 Criminal Investigation (X) 3 cr
Fundamentals of investigation; crime scene search and recording, collection and preservation of physical evidence; scientific aids; modus operandi; sources of information; interview and interrogation; follow-up and case preparation.
Prereq: CRJ 101, 105, or permission of instructor

CRJ 211 Current Issues in Criminal Justice (X) 3 cr
A review of current and administrative and operational concerns of the components of the criminal justice system which are influencing both the system itself and the quality of justice being rendered to the public.
Prereq: None

CRJ 215 Field Experience (X) 3 cr
An optional supervised field experience with an approved agency within the criminal justice system. The integration of classroom theory with practical experience. Internships are made at the discretion of the Criminal Justice faculty consistent with the policies of cooperating agencies.
Prereq: CRJ 101, 103, or permission of instructor

CRJ 217 White Collar/Organized Crime (X) 3 cr
An analysis of white collar crime and organized crime in contemporary America with emphasis placed on the structure and impact of each.
Prereq: None

CRJ 219 Issues in Constitutional Law (X) 3 cr
An examination of those provisions of the Constitution that directly relate to both federal and state law enforcement, and limitations placed on the enforcement activity through constitutional interpretation.
Prereq: CRJ 101, 103, or permission of instructor

CRJ 221 Interpersonal Communications in Criminal Justice (X) 3 cr
The examination of the dynamics of interpersonal communication within criminal justice or law enforcement agencies. Included will be such areas as crisis intervention, stress awareness and management, professional relationships, ethics, and conflict resolution.
Prereq: CRJ 101, 103, or permission of instructor or program coordinator

DANCE

DAN 101 Introduction to Dance (HC) 3 cr
Provides students with an introduction to the fundamentals of dance, and exposure to a wide range of different styles of dance, both western and non-Euro-American. Course will include a daily technique class with instructor or guest teacher, lectures and class discussions, video viewing, and outside-of-class reading assignments. Styles of dance which will be introduced and experienced in the course include: jazz, ballet, African, tap, Middle Eastern dance, Isadora Duncan dance, social and folk dance, modern, Classical Indian dance, Renaissance, and Baroque dance.
Prereq: None

DAN 103 Jazz Dance I (HL) 3 cr
An introductory course in jazz dance. In addition to the basic elements of all dance, students will learn and practice the movement vocabulary essential to the jazz style, which derives primarily from African and African-American dance: body isolations, undulations, propulsive and syncopated rhythms, and personal expression and projection.
Prereq: None

DAN 104 Jazz Dance II (HL) 3 cr
An intermediate course in jazz dance. Students will continue to learn and practice the movement vocabulary essential to the jazz style. Increased emphasis on clarity of rhythm and line, expansion of range of movement, and personal expression and performance projection. Outside of class reading, video viewing, and performance attendance may be assigned.
Prereq: DAN 103 or permission of instructor

DAN 105 African Dance A (HL) 3 cr
Designed to introduce African dance forms to participants through the performance of traditional African movements and rhythms. Adding new elements each class, the complexity of the dances will build through the semester. Lectures on African history, geography, and culture provide a background for understanding the importance of dance in African life.
Prereq: None

DAN 106 African Dance B (HL) 3 cr
A continuation of DAN 105. This course is designed to further those African dance forms previously learned through the performance of traditional African movements and rhythms. Adding new elements each class, the complexity of the dances will build through the semester. Lectures on African history, geography, and culture provide a background for understanding the importance of dance in African life.
Prereq: DAN 105

DAN 107 Ballet I (HL) 3 cr
An introduction to the technique of classical ballet. Students will learn the ballet terminology which denotes the traditional positions of the feet, arms, and body, and the basic ballet steps. Each class will include barre work, center floor exercises to improve balance and coordination, and travelling across-the-floor combinations incorporating jumps and leaps.
Prereq: None

DAN 108 Ballet I-B (HL) 3 cr
A continuation of the study of classical ballet. Students will continue to learn the practice the terminology and movement vocabulary of ballet with its traditional exercises and combinations. Each class will include barre work for placement, strength, and flexibility, center floor adagio exercises for balance and coordination, and travelling combinations incorporating jumps and leaps.
Prereq: DAN 107 or permission of instructor
DAN 111 Modern Dance I-A (HL) 3 cr
Students learn and practice the movement vocabulary of modern dance. Classes consist of a warm-up, coordination exercises, short dance combinations, and traveling movement patterns, designed to increase strength, flexibility, coordination, musicality, and flow. Repertory pieces and improvisation included. There will also be outside-of-class reading, video viewing, and concert attendance assignments.
Prereq: DAN 111 or permission of instructor

DAN 112 Modern Dance I-B 3 cr
Students continue to learn and practice the movement vocabulary of modern dance. Classes consist of a warm-up, coordination exercises, short dance combinations, and traveling movement patterns, designed to increase strength, flexibility, coordination, musicality, and flow. Repertory pieces and improvisation included. There will also be outside-of-class reading, video viewing, and concert attendance assignments.
Prereq: DAN 111 or permission of instructor

DAN 114 Tap Dance I (HL) 3 cr
Introduction to the basic tap dance steps and their style of performance, in conjunction with general concepts of dance technique. Students will learn traditional tap step patterns, such as time steps and waltz clog, and short combinations. Outside of class reading, video viewing, and concert attendance will be assigned.
Prereq: None

DAN 115 Tap Dance II (HL) 3 cr
A refinement of performance of tap dance steps with increasing complexity and length of patterns. Students will focus on clarity of rhythm and body coordination, while working on styles and expression. Outside of class reading, video viewing, and concert attendance will be assigned.
Prereq: DAN 114 or permission of instructor

DAN 119 Dance Production Workshop (HL) 1 cr
Practical experience in dance performance, house management, publicity and public relations, costume construction, and production crews. No more than one credit may be earned in any given semester. Work on the dance concert for the semester is required.
Prereq: None

DAN 120 Dance in Culture (HC) 3 cr
This course is designed to introduce students to dance as a universal element of human culture. Students will learn how dance functions within different societies as celebration, religion and ritual, socialization and courtship, as well as performance. Through outside reading, video and film viewing, in-class discussion, and dancing, students will gain an understanding of diverse dance traditions, including non-European-American forms.
Prereq: None

DAN 121 Dance History (HC) 3 cr
Survey course of the major events in the history of Western theatrical dance. Topics covered include: Renaissance court dance, Baroque dance, Romantic, Classical, and Neo-Classical Ballet; Diaghilev's Les Ballets Russes; the emergence of modern dance in the 20th century; Black dance. Selected figures of dance history will be discussed, e.g., Louis XIV, Marie Taglioni, Isadora Duncan, Martha Graham, Katherine Dunham, George Balanchine. Class format will include lecture, outside reading and in-class video and film viewing.
Prereq: None

DAN 130 Choreography/Performance (HL) 3 cr
Students will study and practice the principles of choreography to create their own dances, both solo and group forms, to a range of musical choices. Over the course of the semester students will continue to refine and rehearse selected dances to be performed in a student dance concert which will be produced near the end of the semester. Under the instructor’s guidance students will be responsible for the production of the concert, including organizational and technical aspects.
Prereq: None; students should be concurrently enrolled in a dance studio course

DATA PROCESSING

DAT 109 Computer Literacy for Nurses (X) 1 cr
Designed to provide a general introductory level knowledge of computers and how they work. Incorporates hands-on experience with microcomputers using appropriate applications software and/or nursing simulation exercises. Culminates in field trip to hospital computer center.
Prereq: Nursing Program students only

DAT 111 Introduction to Computers (L) 3 cr
A non-technical survey course in computers—what they are, what they can do, what they cannot do, how to use them, and what impact they have on society. Ideal for someone looking for a single course in computer literacy. Not designed to prepare for a career in computing, although it provides a background for a select group of data processing offerings.
Prereq: MAT 105 or equivalent

DAT 113 Introduction to Business Information Systems (A) 3 cr
The application of computers to business and like organizations. Topics include: Data Processing systems, computer concepts, teleprocessing, business data base systems, distributed processing. The emphasis of the course is on the use of microcomputers in business. Students will complete hands-on exercises using current word processing, spreadsheet, and database software. This course examines the role of management and the user in the development and operation of business computer systems. This is an appropriate beginning course for those contemplating careers in computing and business as well as those wishing to use the computer as a business tool.
Prereq: MAT 105 or equivalent

DAT 114 Microcomputer Software Tools (A) 3 cr
Provides students with an introduction to several major "productivity" programs used on microcomputers. Topics include the IBM operating system, PC-DOS and MS-DOS; word processing; electronic spreadsheet management and graph production using currently popular software packages; and some database management. The course combines a class-
room-based introduction to the concepts behind each program, and hands-on experience using the programs to solve real business, personal, and professional problems. No previous experience with computers is required; however, basic math skills are a necessity. Students taking this course should anticipate the need to spend three hours per week working with these programs in the GCC computer lab.

Preq: ADM 106, 111, or 113, or permission of instructor

DAT 115 Programming Principles and Concepts (A) 3 cr
A course in computer problem-solving principles and techniques for students contemplating a career in computer programming, or Computer Information Systems. Structured problem-solving methods are introduced, including techniques for decomposing complex problems, and expressing the problem solutions in terms which can be expressed in any computer programming language.

Preq: MAT 106 or equivalent; ENG 101, 103, or 105 or concurrent enrollment

DAT 116 Microcomputer Operating Systems (X) 3 cr
A conceptual and hands-on introduction to microcomputer operating systems commonly used by business and industry. The student will explore the purpose of computer operating systems such as Microsoft DOS and Windows. Students will gain experience in the installation, customization, use, tuning, and troubleshooting of these systems. Topics include the use of utilities and tools of these operating systems such as memory managers, disk compression utilities, anti-virus software, file recovery software, hard disk backup, the creation and use of batch command language files, the management and tuning of windows multitasking environment, and object linking and embedding.

Preq: ADM 106. DAT 113

DAT 117 Computer Networking and Telecommunication (X) 3 cr
Introduction to the related fields of computer networking and telecommunications. Hardware, software, wiring protocols and options will be presented in conjunction with design considerations. The student will gain hands-on experience with using Novell Network and will learn to manage dial-up telecommunications as well as wide area network access using the Internet.

Preq: DAT 116

DAT 118 Microcomputer Software Tools II (X) 3 cr
Provides students with intermediate training in the use of word processing and electronic spreadsheet software. In addition to building upon software skills taught in DAT 114, students will learn the integration of data created in various programs and the development of presentation-quality output. Students use each application's macro language to automate and customize documents, worksheets, and data entry operations. Students will be introduced to graphics software used for business and multimedia presentations.

Preq: DAT 114

DAT 121 Data Base Applications (A) 1 cr
A non-technical view of data base management systems, with a survey of possible applications. The course includes hands-on use of microcomputer data base management systems, with discussions of their relative effectiveness.

Preq: None; Recom: DAT 111 or 113

DAT 129 Applications of Lotus 1-2-3 (A) 1 cr

Preq: None

DAT 131 Word Processing on Microcomputers (X) 1 cr
Using text editor programs, this course explores the facilities available on standard editor programs, along with giving the student a facility for using such programs in research paper writing, and other applications according to the needs and wishes of the student. Graded on a CR/NC basis.

Preq: ADM 106 or permission of instructor

DAT 133 Graphics Applications (L) 1 cr
A non-technical view of computer graphics and survey of applications. The course includes hands-on use of microcomputer-based graphics and plotting systems, input and output devices.

Preq: None; Recom: DAT 111 or 113

DAT 141 Programming in BASIC (A) 3 cr
A continuation of the fundamental concepts of computer programming, as taught in both of the two introductory courses, using the BASIC language. Structured methodologies are emphasized, with instruction in flowcharting, pseudocode, file processing, hierarchy charting, and program testing.

Preq: DAT 115

DAT 143 Introduction to ANSI COBOL (A) 3 cr
A detailed study of the computer programming language most widely used in the business environment. Problem analysis, flowcharting, source coding, and documentation techniques are learned through hands-on use of interactive terminals.

Preq: DAT 115

DAT 146 FORTRAN Survey for Programmers (A) 1 cr
A survey of the fundamentals of the FORTRAN programming language with emphasis on problem solving in mathematic, scientific, and engineering environments. Designed for students who already have completed a full course in a high-level computer language. Extensive program assignments will utilize a minicomputer system.

Preq: DAT 141, 143, or 147, or permission of instructor

DAT 147 Pascal Programming (A) 3 cr
Introduction to a structured computer programming language lending itself well to modern programming techniques. Student facility in programming is emphasized by direct interaction with the computer. A number of problems are assigned to be solved.

Preq: MAT 106 or equivalent, or permission of instructor

DAT 148 C Programming for Programmers (A) 3 cr
Introduction to the C programming language with emphasis on problem solving with numeric and character applications. Designed for students who already have completed at least one college-level computer language course. Extensive programming assignments will be required.

Preq: DAT 141, 143, 145, or 147 or permission of instructor; and MAT 105 or higher
DAT 149 Database Programming and Procedures I (X) 3 cr
The student is introduced to database management and applications in a microcomputer database environment using Microsoft Access relational database. The student will create, access, edit, update, and control a relational database using database tools and will use the database query tools by example. SQL, and using programming language. Database principles and concepts will be demonstrated and students will apply them. Students gain hands-on experience using a current, Windows-based microcomputer database system. Topics include planning and designing a database, table normalization, creation and management of tables, forms, queries and reports, procedure automation using macros, changes to database and table design, and multi-user design considerations.
Prereq: ADM 106, DAT 115

DAT 150 Database Programming and Procedures II (X) 3 cr
A continuation of DAT 149. The student begins with advanced macro design, then is introduced to Access Basic (a 4GL version of Microsoft Visual Basic for Windows) in conjunction with built-in database tools. This is used by the student to create custom applications using the Microsoft Access relational database. The student will complete a database term project.
Prereq: DAT 149

DAT 201 Systems Analysis and Design (X) 3 cr
An investigation and analysis of the methods and techniques used by the systems analyst in analyzing present systems, whether manual or automated systems. The systems development life cycle is followed, from feasibility study through implementation. A major portion of the course is a case study involving the design of a microcomputer-based system for inventory and accounts receivable for a small business.
Prereq: DAT 113 or 115

DAT 251 Cooperative Work Experience in Data Processing (X) 1 to 3 cr
Supervised employment in a local organization which employs a computer in performing some tasks, combined with a seminar coordinating the employment situation with educational experience.
Prereq: Accumulation of at least 9 credits in DAT courses

ECO 107 Consumer Economics (L) 3 cr
The individual living in this complex world; determination of personal goals and values; planning and budgets. An examination of the choices available to the consumer and the need to recognize a consumer trap. Topics include: wise buying, credit, advertising, housing, insurance, investing, and the high costs of living and dying.
Prereq: None

ECO 109 Valley Economic and Industrial Development (BC) 3 cr
A survey of the economic and industrial development of the Pioneer Valley from the 17th century to the present; growth of small and large industries in the Valley; interrelationship between business and cultural activities; economic trends and expected developments.
Prereq: None

ECO 111 Valley Contemporary Economic Issues (BC) 3 cr
Current economic concerns which affect life in the Valley; political structures, demography, resource and land use and their impact on the present economy and future economic growth and to the relationship between economic health and cultural life in the Valley.
Prereq: None

ECO 113 Environmental Economics (BC) 3 cr
Introduction to contemporary problems of environmental quality. Economic analysis of institutions and practices leading to pollution of air, water, and land resources. Study of alternative public policies for improving environmental quality.
Prereq: None

EDUCATION

EDU 101 Introduction to Early Childhood Education (A) 3 cr
Purposes of early childhood education and the role of the teacher. Considers the developmental needs of young children. Attention to physical environment, recording and reporting progress and administration.
Prereq: None

EDU 102 Prepracticum in Early Childhood Education (EDU Lab) (X) 4 cr
Work experience in area preschools, day cares, and public schools.
Prereq: EDU 101 (or concurrent enrollment); ECE major

EDU 103 Creative Experiences in Art, Music, Drama, and Dance (X) 3 cr
A survey course dealing with the methods, materials, content, and theory of the arts. Concentration on rationale, leadership, attitude, and exposure. Credit will be granted for RLS 103 or EDU 103, but not for both. Prereq: ECE or RLS major, or permission of instructor

EDU 111 Introduction to Special Education (L) 3 cr
Overview of development, physical, and behavioral disabilities; basic principles of intervention techniques; overview of legislation (Chapter 766) and implications for the young child.
Prereq: None
EDU 113 Screening and Assessment Techniques for Young Children (X) 3 cr
Principles of screening and assessment for teachers of young children; description of a variety of assessment and evaluation techniques (medical, intellectual/cognitive, perceptual, motor, and educational). Discussion of intervention process, including individual program planning and evaluation.
Prereq: None

EDU 117 Program Options for Children with Special Needs (X) 3 cr
Discussion of the definition and rationale for early intervention, as well as the implications of current legislation. Early program options for children with a wide range of handicapping conditions will be explored. Program options evaluation tools will be utilized in critiquing programs.
Prereq: None

EDU 121 Reading and Language for the Young Child (X) 3 cr
This course emphasizes the importance of effective communication and implements the belief that skills, abilities, and attitudes needed for such communication are identifiable and teachable. The integration of all the language arts into a curriculum for young children is stressed.
Prereq: EDU 101 and/or PSY 101, or permission of instructor

EDU 123 Educating the Infant and Toddler (X) 3 cr
The emphasis in this course is directed toward the education of the child from infancy to two years nine months in group and home settings. Participants will learn about early development, physical space, selection, and presentation of materials and activities, schedules, and strategies of child care for the very young child.
Prereq: None

EDU 133 Day Care Administration (X) 3 cr
This course will explore all the intricacies of managing a center for young children; the children, the curriculum, the environment, personnel management and development, budget and funding, legal concerns, state and local regulations and working with the parents and the community to provide a sound program for young children.
Prereq: EDU 201; Recom: OFC Head Teacher Qualified

EDU 201 Early Childhood Curriculum (X) 3 cr
Organization of curriculum including the research, theory, methods, and materials necessary in a classroom of young children. Emphasis on reading readiness and language skills.
Prereq: EDU 101 or permission of instructor

EDU 205 Philosophy of Education (A) 3 cr
The course examines the role of school in society, the organization and history of American education, the historical foundations of education and its theorists. The relationship between theoretical perspectives and current issues will be emphasized.
Prereq: EDU 101 or permission of instructor

EDU 215 Student Teaching I (X) 6 cr
Work experience in an early childhood setting with responsibility for setting up a safe and healthy environment, providing for social and emotional development in children, and becoming a professional.
Prereq: EDU 102

EDU 216 Student Teaching II (X) 6 cr
Work experience in an early childhood setting with extensive responsibility for the total management of a classroom, experience working with families and providing an environment which promotes physical and intellectual competence in children.
Prereq: EDU 215

EDU 217 Cooperative Placement in Human Services (X) 3 cr
This is a one-semester practicum designed for students who are interested in gaining experience in the human service field. Emphasis is placed on a developmental approach to beginning and ending helping relationships. Issues of confidentiality, planned intervention, professional conduct, and case responsibility will be integral to the seminar. An interview with instructor is required prior to enrollment.
Prereq: PSY 101 and permission of instructor or Division Chair

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ELECTRONICS

ELT 101 Basic Electricity I-DC (X) 4 cr
Basic theory and principles upon which subsequent courses in electricity and electronics technology are dependent. Topics include: electrical nature of matter; current; voltage; sources of e.m.f.; resistance; work; power and energy; series; parallel; and series-parallel resistive circuits; capacitance; magnetism; inductance; Lab required.
Prereq: MAT 103 or equivalent concurrently

ELT 102 Basic Electricity II-AC (X) 4 cr
A continuation of Basic Electricity I, but dealing with alternative current phenomenon. Topics include but are not limited to: A.C. generation; reactance; impedance; impedance networks; power in A.C. circuits; resonance; coupled circuits; harmonics; A.C. machines and devices; A.C. measurement techniques. Lab required.
Prereq: ELT 101 and MAT 104 or equivalent concurrently

ELT 110 Electronics Fabrication (X) 3 cr
An activity-oriented course (lab-lecture) dealing with the materials, techniques, tools, and skills encountered in the assembly, maintenance, and repair of electronic circuits and devices. Topics include but are not limited to: sheet metal tools and operations, printed circuit boards and wire boards, printed circuit board layout and artwork, printed circuit board fabrication, circuit board assembly, soldering, component removal, wire board fabrication, chassis assembly and wiring, power supply testing and troubleshooting, special component handling, storage, and assembly techniques.
Prereq: None

ELT 201 Digital Circuit Theory (X) 3 cr
Binary numbers; logic gates, AND, OR, NAND, NOR, ADD; Boolean algebra; logic circuits, DLT, TTL, ECL, flip-flop circuits; counters; registers; displays; memory circuits; applications. Lab required.
Prereq: ELT 102 or PHY 112
Engineering

EGR 102 Civil and Architectural Drawing (X) 3 cr
Introduction to architectural drafting; including foundation plans, floor plans, elevation, sections, details, schedules, architectural terminology and symbols.
Prereq: EGR 101 or equivalent; Recom: MAT 103

EGR 103 Engineering Orientation (X) 1 cr
An introduction to the field of engineering. The work of the technician and his relationship to the engineer. Typical engineering projects.
Prereq: None

EGR 107 Engineering Graphics I (X) 3 cr
Introduction to engineering graphics concepts and applications. Lettering, scaling, orthographic projection, pictorials, sections, auxiliary views, dimensioning, tolerances, fasteners. Sketching and some instrument work employed. Introduction to computer-aided drafting included.
Prereq: None; Recom: Understanding of coordinate geometry

EGR 108 Engineering Graphics II (X) 3 cr
Development of skills with manual instruments, drafting machines, and computers in the production of working drawings. Descriptive geometry, developments and intersection, graphical math. Engineering graphics for specific disciplines. Project work and CAD
Prereq: EGR 107 or equivalent

EGR 110 Engineering Graphics Project (X) 3 cr
Preparation of complete working drawings for selected engineering disciplines. Emphasis on developing a high level of manual and CAD skills.
Prereq: Corequisite EGR 108 and enrollment in Computer-Aided Drafting Certificate, or permission of instructor

EGR 205 Statics (X) 3 cr
Prereq: PHY 101 or 111; MAT 151 or 201 concurrently

EGR 206 Mechanics of Materials (X) 3 cr
Axial and shear stress and strain, torsion, bending, shear and moment diagrams. Deflection, columns, connections, indeterminate beams.
Prereq: EGR 205

EGR 207 Dynamics (X) 3 cr
Prereq: EGR 205; MAT 151 or 202 concurrently

EGR 208 Thermodynamics (X) 3 cr
Heat theory and equipment; gas laws; first and second laws of thermodynamics; heat exchangers; Rankine and Carnot cycles.
Prereq: MAT 202 and PHY 112

EGR 211 Circuit Analysis I (X) 4 cr
Circuit elements, Ohm's Law, Kirchhoff's Laws, writing and solving circuit equations. Important circuit concepts, operational amplifiers, and energy storage elements. First-order and second-order circuits; state-variable analysis, including numerical solution of the state equations. Lab required.
Prereq: MAT 202 and PHY 112

EGR 212 Circuit Analysis II (X) 4 cr
Time domain analysis, complex numbers, frequency domain analysis, and the sinusoidal function. Introduction to power and power measurements. Important AC concepts. Transformers and two-port networks. Fourier series. Lab required.
Prereq: EGR 211

EGR 214 Digital Electronics (X) 3 cr
Device physics and models for p-n junction and Zener diodes, bipolar junction transistors and field effect transistors. Transistor-transistor logic families, emitter-coupled logic (ECL), integrated injection logic and metal-oxide-silicon digital technologies. Semiconductor memories. Power transistors for output drivers.
Prereq: EGR 211

EGR 215 Contracts, Specifications, and Estimating (X) 3 cr
Basic principles of contract law. Specifications relating to materials and workmanship. Estimating quantities and costs for labor, materials, and equipment. Basic concepts of overhead and profit and their relationship to project costs.30
Prereq: None

EGR 216 Materials Laboratory Course (X) 1 cr
A laboratory course involving tension, compression, flexure, and deflection tests and demonstrations.
Coreq: EGR 206

English

ENG 100 College Writing Strategies (D) 3 cr
Intensive study of the structure of the English sentence and of paragraph building. Exercises in grammar and in sentence combining. Closely supervised practice in writing the paragraph, leading to experience in using library resources for paragraph detail. NOTE: This course does not satisfy the English Composition requirements of the College, and may not be used to fulfill associate degree credit requirements. A final grade of "D" will not be awarded in this course.
Prereq: None

COL 100 College Reading Strategies (D) 3 cr
Development of reading study skills for comprehension, vocabulary building, and critical reading. Techniques for effectively and efficiently obtaining information from reading materials, especially textbooks. This course may not be used to fulfill associate degree credit requirements; a final grade of "D" will not be awarded.
Prereq: None
COL 101 College Writing and Reading Strategies (D) 3 cr
Improvement of writing and reading skills, using each to reinforce the development of the other. This course is designed as a “bridge” between the ENG/COL 100 courses and college-level courses, although enrollment is not limited to people who have taken developmental courses. Focus on analysis and comprehension of reading using textbooks from other courses and extensive practice writing essays, summaries, personal responses, and answers to essay questions. Grammar review. Individualized instruction. In-class tutors. This course may not be used to fulfill associate degree credit requirements; a final grade of “D” will not be awarded. 
Prereq: None

English Composition I (ENG 101, 103, 105)
Study of various aspects of reading and writing expository prose, including clear and effective organization of ideas, convincing expression of ideas in writing, and analysis of prose samples. Three options are available; students may receive credit for only one.

ENG 101 English Composition I: Structures for Composition (E) 3 cr
Introductory study of expository writing from the point of view of structures for the organization of material. Chronological and logical structures with emphasis on patterns of development appropriate to papers and examinations for various college courses. Prereq: ENG 100 and COL 100, or satisfactory placement test score, or permission of the English department

ENG 103 English Composition I: Purposes and Techniques of Prose (E) 3 cr
An analytic approach to the study of expository writing for students who feel confident of their compositional skills. Readings provide models for writing assignments, but the subjects are chosen by the student. Prereq: Satisfactory placement test score

ENG 105 English Composition I: The Impact of Language (E) 3 cr
The development of a personal, expressive writing style as a creative rendering of the results of critical and analytic thinking. Readings from modern novels and other materials serve as models and sources of ideas. Attention will be given to the history of the English language, and to the languages of race, gender, advertising, and politics. Prereq: Satisfactory placement test score

English Composition II (ENG 112, 114, 116)
Study of the imaginative and symbolic use of language. Emphasis on development of critical standards and written responses to fiction, poetry, and drama. Three options are available; students may receive credit for only one.

ENG 112 English Composition II: Exploring Literature (E) 3 cr
Examination and analysis of the three major literary genres: prose fiction, poetry, and drama. Writing assignments emphasize the formal, thoughtful, “critical” paper, but do not preclude more personal and creative responses. Prereq: ENG 101, 103, or 105

ENG 114 English Composition II: Literature and Creative Writing (E) 3 cr
Examination of the creative modes of writing: short fiction, poetry, drama, and song. Writing assignments include creative experiments and literary analysis. Prereq: ENG 101, 103, or 105 and permission of instructor

ENG 116 English Composition II: Analysis of Literature and Film (E) 3 cr
Study of film, short stories, poetry, and drama from Western and non-Western cultures. Some analysis of other media such as television and song. Writing assignments will stress critical evaluation. Prereq: ENG 101, 103, or 105

ENG 121 Script Writing (L) 3 cr
The study and practice of writing scripts to communicate information, knowledge, and appreciation. Scripts will be written for slide-tape and television media formats. This course is designed for individuals who may be responsible for disseminating information in business, industry, or education. Prereq: ENG 112, 114, 116, or permission of instructor

ENG 123 Report Writing (L) 3 cr
Intense study and practice in the writing of letters, memos, and reports (proposals or feasibility studies) related to specific technical and service occupations. Instruction in persuasive writing, presentation techniques, resume writing, use of graphics, research, and documentation. Term project required. Prereq: ENG 101, 103, or 105

ENG 201 Western Literature I (HC) 3 cr
Reading and critical analysis of selected literary masterpieces from Homer to Shakespeare. Prereq: ENG 112, 114, or 116

ENG 202 Western Literature II (HC) 3 cr
Reading and critical analysis of selected literary masterpieces from Shakespeare to Frost. Prereq: ENG 112, 114, or 116

ENG 203 American Literature I (HC) 3 cr
Critical study of significant achievements in American literature from the Puritan period through the period of the Reconstruction. Emphasis on the growth of an American literature, its modes and purposes. Prereq: ENG 112, 114, or 116

ENG 204 American Literature II (HC) 3 cr
Critical study of significant achievements in American literature from the late 19th century to the present. Emphasis on literary modes and thought as they reflect the modern society. Prereq: ENG 112, 114, or 116

ENG 205 English Literature I (HC) 3 cr
Readings in English literature from the Anglo-Saxon period to the late 17th century. Major emphasis on Chaucer and Shakespeare. Prereq: ENG 112, 114, or 116

ENG 206 English Literature II (HC) 3 cr
Readings in English literature from the late 17th century to the present. Prereq: ENG 112, 114, or 116
ENG 207 Advanced Creative Writing I (HC) 3 cr
Techniques and approaches in narrative, lyric, and dramatic forms of writing.
Prereq: ENG 112, 114, or 116. Note: This course does not fulfill the Liberal Arts literature requirement.

ENG 208 Advanced Creative Writing II (HC) 3 cr
Techniques in narrative, lyric and dramatic forms of writing. This course is for students who have completed ENG 207 and wish to continue exploring the problems of creative writing.
Prereq: ENG 112, 114, or 116 and ENG 207. Note: This course does not fulfill the Liberal Arts literature requirement.

ENG 211 Modern Novel (HC) 3 cr
Themes and methods of novelists of the modern western world. Exploration of such typically modern themes as alienation and the failure of communication. Attention given to modern experiments in point of view, structure, and style.
Prereq: ENG 112, 114, or 116. Note: This course does not fulfill the Liberal Arts literature requirement.

ENG 219 Ethnic Literature* (HC) 3 cr
A study of American literature through writers representative of various ethnic groups in the United States.
Prereq: ENG 112, 114, or 116

ENG 221 Shakespeare (HC) 3 cr
A selected group of plays by Shakespeare, approached by theme, with consideration of contemporary presentations or adaptations. Field trips to film and/or theater performances.
Prereq: ENG 112, 114, or 116. Note: This course does not fulfill the Liberal Arts literature requirement.

ENG 225 Satirical Fiction (HC) 3 cr
A survey of absurdist and political satire in fiction. Attention will be given to representative 18th and 19th century writers. Ultimate focus will be on Kurt Vonnegut and Flannery O'Connor, developing an analysis of their differing responses to the contemporary world.
Prereq: ENG 112, 114, or 116

ENG 235 Survey of Latin American Literature (HC) 3 cr
A study of Latin American writings from the pre-Columbian era to the present. Emphasis will be placed on the social, political, and cultural forces that have shaped the voices of contemporary Latin American literature. Authors will include Bartolome de las Casas, Andres Bello, Ruben Darío, Clorinda Matto de Tumé, Jorge Borges, Isabel Allende, and Gabriel Garcia Marquez.
Prereq: ENG 112, 114, or 116

ENG 241 Survey of Children's Literature (HC) 3 cr
Wide reading of classic and current children’s literature, including the history and development of the various genre. Criteria for judging children’s books. Classroom techniques in Early Childhood Education.
Prereq: ENG 112, 114, or 116. Note: This course does not fulfill the Liberal Arts literature requirement.

ENG 247 Women in Literature I* (HC) 3 cr
A study of works by 19th century women writers. Literature in various genres will be discussed within the historical and social context of the times, in relation to 19th century literary movements, and from the perspective of a unique female literary tradition.
Prereq: ENG 112, 114, 116, or permission of instructor

ENG 248 Women in Literature II* (HC) 3 cr
A study of poetry, short stories, novels, and drama that presents the richness of diversity in the work of 20th century women writers. Emphasis on the voice of the writer and her use of literary technique as she explores important themes in women’s lives.
Prereq: ENG 112, 114, 116, or permission of instructor

ENG 253 Valley/American Literature (HC) 3 cr
Critical study of American literature from the Puritan period to the present with focus on the significant achievements of Valley writers. Exploration of the effects on their works of the geographical, social, and cultural environment of the Pioneer Valley. Writers studied include Jonathan Edwards, Emily Dickinson, Mark Twain, Robert Frost, and Archibald MacLeish among others.
Prereq: ENG 112, 114, 116, or permission of instructor

ENGLISH AS A FOREIGN LANGUAGE

EFL 101 Writing—Beginners Level (X) 3 cr
Introduction to the English language and American culture through the systematic study of writing. Individualized programs as needed. Laboratory required. Graded CR/NCR. Prereq: Placement by examination; Literacy in native language

EFL 102 Writing—Advanced Beginners Level (X) 3 cr
Focus on writing skills needed for successful participation in American communities. Continued study of sentence structure and basic composition skills. Individualized programs as needed. Laboratory required. Graded CR/NCR. Prereq: Placement by examination

EFL 103 Written English—Intermediate Level (X) 3 cr
Refinement of writing skills essential to academic success. Weekly writing assignments; frequent drills in sentence structure and other compositional skills. Laboratory required. Graded CR/NCR. Prereq: Placement by examination; concurrent enrollment in EFL 107

EFL 104 Written English—Advanced Level (X) 3 cr
Emphasis on advanced writing skills as preparation for beginning-level college courses and the TOEFL examination. Weekly writing assignments. Laboratory required. Students are encouraged to enroll in EFL 108 concurrently. Letter grades. Prereq: Placement by examination

EFL 105 English Grammar—Beginners Level (X) 3 cr
Introduction to the English language and American culture through reading and writing focusing on the systematic study of grammar. Individualized programs as needed. Laboratory required. Graded CR/NCR. Prereq: Placement by examination
EFL 106 English Grammar—Advanced Beginners Level (X) 3 cr
The continued systematic study of grammar through reading, writing, and culture on the advanced beginner level. Individualized programs as needed. Laboratory required. Graded CR/NC. Prereq: Placement by examination.

EFL 107 American English Grammar in Context (X) 3 cr
Introduction to the essential points of grammar which are needed for successful study in U.S. college courses and for the successful completion of the TOEFL (Test of English as a Foreign Language). Key areas of study include the system of verb tenses in English, the use of English parts of speech. Emphasis placed on recognition and understanding of grammar patterns in reading and conversation and accurate use of patterns of writing. Laboratory required. Graded CR/NC. Prereq: Placement by examination.

EFL 108 American English Grammar in Use (X) 3 cr

EFL 111 Spoken English—Beginners Level (X) 3 cr
Introduction to standard American speech patterns. Exercises designed to teach conversational skills and correct pronunciation. EFL 101 vocabulary and other language elements put into practice. Laboratory required. Graded CR/NC. Prereq: Placement by examination; literacy in native language.

EFL 112 Spoken English—Advanced Beginners (X) 3 cr
Continuation of EFL 111 with emphasis on the development of listening and speaking skills needed in normal social interactions: school, job, etc. Laboratory required. Graded CR/NC. Prereq: Placement by examination.

EFL 113 Spoken English—Intermediate Level (X) 3 cr
Development of skills in group discussion, role playing, oral presentation, and listening comprehension. Vocabulary, pronunciation, and other language elements put into practice. Laboratory required. Graded CR/NC. Prereq: Placement by examination.

EFL 114 Spoken English—Advanced Level (X) 3 cr

EFL 115 American Culture and the Media (X) 3 cr
For non-native speakers of English; explores mainstream American cultural values through film, television, and newspapers. Themes of individual freedom, family relationships, privacy, directness of communication style, materialism, and orientation to future action will be illustrated and discussed. Activities will emphasize listening, critical thinking, and discussion. Students will participate in a variety of formats common in college classes. Prereq: EFL 114, placement by examination. Recomm: Concurrent enrollment in EFL 125, ENG 100, and COL 100

EFL 121 Reading, Vocabulary—Beginners Level (X) 3 cr
A course specifically designed for beginning-level EFL students who are able to read little or no English. The lessons progress from pictorially based words, phrases, and sentences to longer content passages and stories containing basic English structures. Students are introduced to prereading skills, the bilingual English dictionary, a basic list of high-frequency vocabulary, and a variety of reading tests. Laboratory required. Graded CR/NC basis. Prereq: Placement by examination; literacy in native language.

EFL 122 Reading, Vocabulary—Advanced Beginners (X) 3 cr
This course assumes that students know the basic structures and vocabulary of English and are now ready to become active readers of newspapers, magazines, books, and encyclopedia articles about a variety of subjects. Strategies for improving reading comprehension, high-frequency vocabulary acquisition, and test-taking will be emphasized. Laboratory required. Graded CR/NC basis. Prereq: Placement by examination.

EFL 123 Reading, Vocabulary—Intermediate Level (X) 3 cr
Emphasis on helping students improve their level of proficiency in reading, vocabulary, note-taking, and test-taking strategies for success in college course work. Materials drawn from university-level textbooks and tests, including the TOEFL. Laboratory required. Graded CR/NC basis. Prereq: Placement by examination.

EFL 124 Reading, Vocabulary—Advanced Level (X) 3 cr
Intense study and practice in reading university-level textbooks, American literature, and many kinds of college tests. Attention given to vocabulary development and test-taking strategies in preparation for the TOEFL test. Laboratory required. Letter grades. Prereq: Placement by examination.

EFL 125 Vocabulary for College Courses (X) 3 cr
A course for non-native speakers of English who plan to enroll in college programs. Introduces concepts, essential vocabulary, and study skills which students need in first-year college requirements. Modules of readings and vocabulary will include psychology, sociology, anthropology, business, and literature. Prereq: EFL 124 or placement by examination. Recomm: Concurrent enrollment in EFL 115, ENG 100, and COL 100.

ENVIRONMENTAL SCIENCE

ENV 107 Principles of Land Use (NL) 3 cr
Historical and legal aspects of land ownership, property rights and land use; urban geography, ecological and social considerations influencing community and regional planning. Prereq: None.
**FIRE SCIENCE TECHNOLOGY**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Prerequisite(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>FST 101</td>
<td>Introduction to Fire Protection (X)</td>
<td>3 cr</td>
<td>None *</td>
</tr>
<tr>
<td>FST 103</td>
<td>Fundamentals of Fire Prevention (X)</td>
<td>3 cr</td>
<td>None *</td>
</tr>
<tr>
<td>FST 105</td>
<td>Organization and Management of Fire Departments (X)</td>
<td>3 cr</td>
<td>None *</td>
</tr>
<tr>
<td>FST 109</td>
<td>Hazardous Materials (X)</td>
<td>3 cr</td>
<td>None *</td>
</tr>
<tr>
<td>FST 111</td>
<td>Building Construction (X)</td>
<td>3 cr</td>
<td>None *</td>
</tr>
<tr>
<td>FST 113</td>
<td>Fire Hydraulics with Applied Math (X)</td>
<td>4 cr</td>
<td>None *</td>
</tr>
<tr>
<td>FST 201</td>
<td>Fire Protection Systems and Equipment I (X)</td>
<td>3 cr</td>
<td>None *</td>
</tr>
<tr>
<td>FST 202</td>
<td>Fire Protection Systems and Equipment II (X)</td>
<td>3 cr</td>
<td>None *</td>
</tr>
<tr>
<td>FST 203</td>
<td>Fire Fighting Tactics (X)</td>
<td>3 cr</td>
<td>None *</td>
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</tbody>
</table>

*Fire and arson laws and the origin of fires. Locating witnesses, conducting investigations, libel and slander, arson motives, interviewing witnesses, interrogating suspects, criminal confessions, searching the fire scene, evidence, and photography; methods of establishing the corpus delicti in an arson fire.*

*National, state, and local laws and ordinances which influence the field of fire protection. Emphasis on local situations.*

*A 110-hour course in the emergency primary care of injuries, acute illnesses, birth, and people under stress. Rescue extraction, transportation, communication, legal implications, anatomy and physiology, M.D. participation, ambulance training and CPR, lectures, slides, demonstrations, and practice. Students completing the course will be able to take the National Registry Examination at the College.*

**FOLKLORE**

<table>
<thead>
<tr>
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<th>Course Title</th>
<th>Credits</th>
<th>Prerequisite(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>FLK 217</td>
<td>American Folklore (HC)</td>
<td>3 cr</td>
<td>None *</td>
</tr>
<tr>
<td>FLK 218</td>
<td>Storytelling (HC)</td>
<td>3 cr</td>
<td>None *</td>
</tr>
<tr>
<td>FLK 219</td>
<td>Valley Folklore (HC)</td>
<td>3 cr</td>
<td>None *</td>
</tr>
</tbody>
</table>

*An introduction to the materials and methods of the study of American folklore, with emphasis on its appreciation, on its relevance to the development of literature, and its relationship to lifestyles. Folklore and Folk literature of the southern Appalachian will serve as models for study.*

*Folktales from American, European, and other ethnic folklore traditions are examined from a contemporary perspective. Attention will be given to structure, content, language, literary and social issues, and techniques. Students learn to tell the folktale within the context of their own cultural experiences.*

*An introduction to the materials and methods of American Folklife studies with emphasis on specific areas of Valley folklife as evidenced in music, story, art, architecture, dance, customs and festivals, as well as in other manifestations or oral, customary, and material folk traditions. Students will work on a class project examining a unique aspect of Valley folklife. Credit will be granted for FLK 217 or FLK 219 but not for both.*

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**Credit Courses**

For information on Advising Codes see inside back cover.
**FRENCH**

**FRE 101 Elementary French I (HC)** 4 cr  
Fundamentals of French. Acquisition of language functions, vocabulary structures, and culture through contextualized presentations, interactive activities, and extensive laboratory practice.  
Prereq: None

**FRE 102 Elementary French II (HC)** 4 cr  
Prereq: FRE 101, one year of high school French or equivalent, or permission of instructor

**FRE 201 Intermediate French I (HC)** 3 cr  
Intermediate study of French using a video-based immersion program supplemented by a variety of target language readings. Continued emphasis on speaking the language and mastering French structures. The class is conducted in French.  
Prereq: FRE 102 or equivalent, or permission of instructor

**FRE 202 Intermediate French II (HC)** 3 cr  
Conclusion of the intermediate study of French through immersion supplemented by a variety of target language readings. The class is conducted in French.  
Prereq: FRE 201 or equivalent, or permission of instructor

**FRE 251 French Composition and Conversation (HC)** 3 cr  
Development of advanced writing and speaking skills. Representative works of Francophone literature, available periodicals, and films are the subjects of 58 class discussion and of oral and written assignments.  
Prereq: FRE 202 or equivalent, or permission of instructor

**GEOLOGY**

**GEO 003 Valley Geology Laboratory (NC)** 1 cr  
A laboratory and field trip complement to GEO 103, Valley Geology. May be taken with GEO 103 to create a four-credit laboratory science course.  
Prereq: GEO 103 concurrently

**GEO 101 Physical Geology (NC)** 4 cr  
Nature and origin of the landscape; features of the earth's surface; common rocks and minerals; agents of erosion; role of earthquakes, volcanoes, and the mountain building process. Particular attention to regional geology. Lab and field trips required. Credit will be granted for GEO 101 or GEO 103, but not for both.  
Prereq: None

**GEO 102 Historical Geology (NC)** 4 cr  
An introduction to the origin and development of the earth, with emphasis on the Eastern United States. Topics include geologic time, myths and science of creation, meaning and interpretation of rocks and fossils. Lab and field trips required. Credit will be granted for GEO 102 or GEO 103, but not for both.  
Prereq: None

**GEO 103 Valley Geology (NC)** 3 cr  
An introduction to the unique geology and geohistory of our region. Topics include: rocks, minerals, rivers, glaciers, dinosaurs, continental drift, resources, and geologic hazards. Must register for GEO 003, if lab component desired. Credit will be granted for either GEO 103 or GEO 101-GEO102.  
Prereq: None

**GEO 104 Introduction to Oceanography (NC)** 4 cr  
The nature of the ocean realm—its physical, chemical, biological, and geologic characteristics and importance. Topics to be discussed: origin and characteristics of ocean basins, physical and chemical nature of sea water, origin and movement of water masses, importance of the oceans to life on earth. Lab and field trips required. Credit will be granted for GEO 104 or GEO 105 but not for both.  
Prereq: None

**GEO 105 Survey of Oceanography (NC)** 3 cr  
Introduction to ocean science. Deals with how the oceans affect the earth. Topics include: ocean life and ecosystem, origin of sea water and ocean basins, coastal zones, mineral and fishery resources. Field trips. No lab. Credit will be granted for GEO 104 or GEO 105 but not for both.  
Prereq: None

**GEO 107 Geology of our National Parks (NC)** 4 cr  
Geographical settings of our national parks and geological processes which carved out or built up their outstanding landforms. Current environmental hazards and pressures. Lab and field trips required.  
Prereq: None

**HISTORY**

**HIS 101 Western Civilization to 1500 A.D. (HC)** 3 cr  
The major ideas, institutions, and developments of Western Civilization from ancient times to the Renaissance. Themes include the nature of humankind; relationship of the individual to society and the universe; the role of religion; the individual in history; the transition to modern modes of life and thought.  
Prereq: None

**HIS 102 Western Civilization Since 1500 A.D. (HC)** 3 cr  
Analysis of ideas, attitudes, and developments of Western Civilization from the dawn of the modern age to the present. Topics include the scientific and industrial revolutions; the rise and triumph of nation states; the French and Russian revolutions; European imperialism in Asia and Africa; socialism, communism, and fascism; dictatorships and World War II; the challenge of the non-Western world.  
Prereq: None

**HIS 105 History of the American People to 1865 (HC)** 3 cr  
Economic, social, and cultural development of the American people prior to the Civil War. Utopianism; the Revolutionary Era; the development of national consciousness; consensus and conflicts; constitutionalism; the roots of American foreign policy; race relations; slavery and war. Credit will be granted for HIS 105 or 107 but not for both.  
Prereq: None
HIS 106 History of the American People Since 1865 (HC) 3 cr
Reconstruction; industrialism and triumphant capitalism; the capitalist model of society; business and the protestant ethic; labor, populism, and dissent; imperial expansion and the progressive politics; crisis in the American Dream-The Great Depression and the New Deal; minorities and change; the roots of contemporary American foreign policy to Vietnam. Credit will be granted for HIS 106 or 108 but not for both.
Prereq: None

HIS 107 Valley/American History I (HC) 3 cr
Analysis and examination of major developments—political, social, economic—in American history from colonial times to the Civil War period with the focus on the local and national levels. Emphasis on local resources. Credit will be granted for HIS 105 or 107 but not for both.
Prereq: None

HIS 108 Valley/American History II (HC) 3 cr
Analysis and examination of major developments—political, social, economic—in American history from the latter part of the 19th century to the present with the focus on the local and national levels. Emphasis on local resources. Credit will be granted for HIS 106 or 108 but not for both.
Prereq: None

HIS 113 China and Japan: A Cultural History* (HC) 3 cr
The origins and development of traditional society and culture in China and Japan. Dynastic history in China, and imperial and feudal history in Japan. Emphasis will be given to literary and linguistic development, the formation of political systems and the evolution of cultural life. The complex developments of the 19th and 20th centuries which brought China and Japan into the world community. The critical role played by western contacts in this process. The emergence of China and Japan as global powers.
Prereq: None

HIS 123 Modern Pacific Asia (HC) 3 cr
A comprehensive look at the 19th-20th century transformation of the societies of the Pacific basin including those of Southeast Asia, Korea, and the Philippines, as well as China and Japan. Their political, economic, and cultural transformation from tradition-bound to modern states, with special attention focused on the role of Western imperialism and its impact. We will look closely at the United States and the effects of Pacific Asian involvement on its development as a global power.
Prereq: None

HIS 127 History of African-American Peoples* (HC) 3 cr
A survey of the African-American experience in the United States, including African heritage, enslavement and slavery, resistance, the Civil War and Reconstruction and their combined legacies of racism and oppression, and the continuing struggles of African-Americans for full and equal rights.
Prereq: None

HIS 129 Introduction to Modern Africa* (HC) 3 cr
A survey of geography, climate, and the diverse ethnic and cultural groups of the continent. After a brief outline of pre-European civilizations, concentration is on Africa’s history from the period of European colonization to the present. Current political, social, and economic conditions are highlighted.
Prereq: None

HIS 217 Valley/American Ethnic Experience* (HL) 3 cr
An exploration of the contributions to the cultural, social, and historic development of Valley/American life by the people of diverse ethnic and minority backgrounds. A variety of approaches will be pursued in our investigations, including texts, readings, and field research. The course calls for people with an interest in a component of history too long neglected, the human element.
Prereq: HIS 105, 106, 107, 108, or permission of instructor

HONORS

HONORS SEMINARS I, II, III (L) 3 cr
The Honors Seminars provide students whose academic performance is superior with an opportunity to explore in depth a selected topic of academic interest in a small class largely dependent on student interaction. Admission requires approval of the Honors Committee. A major paper is required. First-time seminar participants will register for HSM 101; participants who are accepted into subsequent seminars will register for HSM 103 and then HSM 105. Seminar topics change each semester, but reflect the scholarship of the three major academic groupings of the college: Behavioral Sciences, Human Services and Learning Assistance Programs, Humanities, English, Art and Media Programs; and Business, Mathematics, Science, Technologies, and Nursing Programs.
Prereq: 101: Approval of Honors Committee

103: HSM 101 and approval of Honors Committee
105: HSM 103 and approval of Honors Committee

HUMAN DEVELOPMENT

HUD 101 Study Skills (D) 1 cr
Teaches academic success skills, including techniques for effective reading and remembering, class involvement, preparation for tests, taking lecture notes, and managing time. This course may not be used to fulfill associate degree requirements.
Prereq: None

HUD 103 The 24-Hour Outdoor Personal Growth Experience (X) 1 cr
The in-class sessions and central 24-hour wilderness experience focus on the expansion of the individual's awareness and sensitivity to his or her relationship with the environment through interpretation and participation in its cyclic rhythms.
Prereq: None

HUD 109 Career Decision-Making and Planning (X) 2 cr
An individualized introduction to the career/life planning process. Covers seven major steps in decision-making: commitment to planning, self-assessment, generating options, information seeking, choosing, planning, and taking action. Specific career plans will be developed as a result of this course.
Prereq: None

For information on Advising Codes see inside back cover.
HUD 112 Assertiveness Training (X) 1 cr
Skills training in behavior which allows individuals the opportu-
nity to express their own opinions, feelings, needs, and preferences, 
without unnecessary anxiety and in a way that is 
not threatening to others.
Prereq: None

HUD 113 Job Search Training (X) 1 cr
An introduction to the techniques used in effective job search.
Specific attention is paid to helping each student to match his/ 
her skills, needs, and values to specific types of jobs. The 
course content emphasizes informational interviewing, 
resume development, formal job interviewing, and job contract 
negotiations.
Prereq: None

HUD 117 Managing Stress (X) 2 cr
Designed to transmit basic information about how stress 
works to help students isolate their own stress responses, and 
to help them find appropriate stress reduction techniques 
within a lab setting.
Prereq: None

HUD 120 Issues in Wellness, Fitness, 
and Health (X) 1, 2 or 3 cr
A series of seminars, lectures, and workshops designed to 
provide current information related to health and lifestyle 
concerns. Topics/content will be selected from such areas as 
physical fitness, nutrition, wellness, substance abuse, the 
environment, attitudes, preventive medicine, sexuality, and 
stress. All students must attend the first session to discuss 
the course and complete a learning contract consistent with 1, 2, 
or 3 credits.
Prereq: None

HUD 121 Applied Leadership Training (X) 1 cr
Fundamental leadership skills, problem-solving, decision-
making techniques, and group process; college governance 
structure, principles of the planning process and budget 
preparation. Maximum two graded credits.
Prereq: Offered only to GCC Student Senators elected by 
the GCC student body.

HUD 125 Issues in Contemporary Society: 
Substance Abuse (X) 1 cr
Issues such as substance abuse, racism, sexual harassment, 
wellness, diversity, family abuse will be offered to students 
wishing to explore them via discussions, presentations, lec-
tures, and workshops. The focus issues will be delineated as 
part of the course title.
Prereq: None (Note: Each semester this course will be 
offered with a different focus which will be reflected as part 
of the title.)

HUD 127 Survey of Health Careers (X) 2 cr
An introduction to the responsibilities, settings, and qualifica-
tions of various health careers. This course will examine the 
role of different health professionals as members of a health-
care team. Students will be assisted in the process of educa-
tion and career solution through self-evaluation and decision-
making exercises. Opportunities will be provided to observe 
various health-care professionals in clinical settings.
Prereq: PHC majors only and/or permission of instructor

HUD 160 Mentoring (X) 1 cr
Designed to train students to be mentors. They will learn how 
to help new students by providing guidance, counsel, and 
practical advice in negotiating the college experience.
Prereq: At least second semester student

HUMAN ECOLOGY

HEC 101 Human Ecology: 
Problems and Solutions* (BC) 3 cr
An introduction to basic concepts and principles in ecology 
including ecosystems, population, food production, energy, 
pollution, technology, and resource depletion. This course 
focuses on man's impact on the natural environment empha-
sizing current problems and alternative solutions to them.
Prereq: None

HEC 111 Applied Human Ecology: 
Project TEME (BL) 3 cr
An introduction to totally enclosed modular environments, 
with an emphasis on their relevance for the future, particularly 
with regard to space travel and colonization, and deep ocean 
sea floor exploration. Student "volunteers" participate in a 
series of hands-on activities applying basic ecological prin-
ciples, elements of effective group process, and appropriate 
technologies in developing strategies for solving global prob-
lems. Volunteers are trained to assume specialized roles 
relevant to the implementation of TEME global research 
missions. Successful completion of this course does not 
guarantee admission to HEC 251.
Prereq: None

HEC 113 Earth Experiences (BL) 4 cr
An introduction to selected experiential education compo-
ents of environmental studies and human ecology. A series 
of group-building problem-solving initiatives and "in-the-field" 
experiences designed to build group identity, promote self 
confidence and personal growth, and heighten understanding 
of applied environmental studies. Students will choose appro-
priate resident and day field laboratory experiences. Self-
directed learning models within environmental studies and an 
exploration of resources and networks within environmental-
oriented careers will be introduced.
Prereq: None

HEC 115 Introduction to Ecological Living (BL) 3 cr
Introduction to the major themes of ecologically sustainable 
living and "hands-on" experiences in practical application, 
techniques, and methods. Possible topics include alternative 
energy and conservation, building community, transportation, 
food production and preparation, and strategies of recycling 
and resource utilization. Examination of the ethics, values, 
and belief systems that affect personal choice and public 
policy impact on the earth. Three seminars at Greenfield 
Community College and three weekend intensives at 
Earthland's Center for Sustainable Living.
Prereq: None
HEC 201 Strategies for a Sustainable Future (BC) 3 cr
Expands on human ecology themes in analyzing historical, cultural, and socio-economic causes of the accelerating deterioration of global ecosystems. Examines global, national, and regional strategies for creating an ecologically sustainable future. Gives special attention to the strategic significance of direct individual actions in both lifestyle choices and democratic social change processes for achieving eco-system sustainability.
Prereq: ANT 104 or BIO 103 or HEC 101 or permission of instructor

HEC 251 Small Group Ecology: Project TEME Planning and Development (BL) 3 cr
Training in the use of and application of ecological concepts and principles in the planning and development of the annual Project TEME event schedule. Along with the project directors, students enrolled in HEC 251/252 as Project TEME supervisors form the administrative nucleus of the program. The program provides an opportunity for students to participate in an organizational setting—the TEME Earth Guild—whose purpose is to conduct scientific research missions critical to the future of our planet. Based on a computer-integrated experiential approach, this course is designed to increase ecological awareness and individual group leadership skills by focusing on learning about the dynamics of group behavior and adaptation in a controlled environment. Successful completion of this course does not guarantee admission to HEC 252.
Prereq: HEC 111 and permission of instructor

HEC 252 Small Group Ecology: Project TEME Implementation (BL) 6 cr
Training in the use of and application of ecological concepts and principles in the planning and implementation of the annual Project TEME event schedule. Along with the project directors, students enrolled in HEC 251/252 as Project TEME supervisors form the administrative nucleus of the program. The program provides an opportunity for students to participate in an organizational setting—the TEME Earth Guild—whose purpose is to conduct scientific research missions critical to the future of our planet. Based on a computer-integrated experiential approach, this course is designed to increase ecological awareness and individual group leadership skills by focusing on learning about the dynamics of group behavior and adaptation in a controlled environment.
Prereq: HEC 251 and permission of instructor

HSV 115 Introduction to Interviewing and Counseling (BL) 3 cr
An introductory course covering the basic principles of counseling, including theoretical approaches, characteristics of a helping relationship, and the counselor's role. Upon successful completion of the course, students will understand the roles, skills, and methods involved in effective counseling.
Prereq: ENG 101, 103, or 105; and PSY 101 (or concurrent enrollment)

HSV 119 Contemporary Parenting (BL) 3 cr
This course explores reasons for having children, the birthing process, and the changes that take place within the family unit with the arrival of a child. Parenting styles and their effects are explored along with the impact of the changing societal values on the American family.
Prereq: None

HSV 141 Chemical Dependency: Understanding Drug Use (BL) 3 cr
An examination of the nature of substance abuse and chemical dependency in society today. Topics studied will include: commonly abused substances and their effects, physical symptoms and behavioral signs of substance abuse, stages of dependency, factors which influence chemical dependency, and personal and social influences.
Prereq: None

HSV 151 Topics in Human Services (BL) 2 cr
This introductory course provides students opportunities to understand contemporary issues in human services and how they affect the agency, the delivery system, and the helping relationship. In-depth study and discussions will include racism, classism, ageism, homophobia, sexism, and the stigma of mental illness, mental retardation, and the physically challenged.
Prereq: None

HSV 215 Counseling Skills (BL) 3 cr
Students will move from theoretical understanding of the helping relationship to practical application as they practice interviewing, counseling, and referral processes. Specialized counseling skills such as crisis intervention will be introduced. There will be extensive demonstration and role play while utilizing audio and video tapes, and students will witness clinical supervision as they practice peer supervision.
Prereq: HSV 115

HSV 271 Practicum in Human Services (BL) 4 cr
This course will provide students with field work in competency training and skill building through directed, closely-supervised involvement in a human service agency. Professionally supervised individual and/or group focused involvement in which students practice their acquired skills is required. In addition to the field work, students will meet each week for two hours to share practicum experiences.
Prereq: HSV 101, 215, HSV majors only

HUMANITIES

HUM 113 Introduction to the Pioneer Valley (HL) 3 cr
Overview of the geography, geology, history, and culture of the Pioneer Valley, with instruction in methods of research, including oral history and work in libraries, newspaper files, and museums. Field trips in the local area.
Prereq: None

80 Credit Courses

For information on Advising Codes see inside back cover.
HUM 119 Women in the Pioneer Valley (HL) 3 cr
In this course, students, through historical and literary readings and original research, explore the experience of women of the Pioneer Valley. Letters, diaries, journals, oral histories, fictional works, and other similar sources will be examined. Prereq: None

HUM 150 The Lively Arts (HC) 3 cr
The Lively Arts (taught at the University of Massachusetts) provides experiences in the performing and visual arts through attendance at Fine Arts Center Performing Arts Series concerts of music and dance and guided visits to University gallery exhibitions of sculpture, prophylography and drawings. Guest faculty present weekly lectures about the structure and history of music, dance and visual arts. Discussion sections help students understand and apply information from weekly assignments, lectures, exhibitions, and concerts. Free tickets are provided. Prereq: None

HUM 153 Media and Popular Culture (HC) 3 cr
Discussion and critique of photographs, film, and video from the Depression to the present. Analyses of the influences of mass media images on popular culture. Focus will be on developing visual literacy and critical thinking. Prereq: ENG 101, 103, or 105

HUM 201 Humanities in the Western World I (HC) 3 cr
Illustrates the relationships among the literature, music, visual arts, history, and ideas of the Western World, with emphasis on the texts of certain literary classics. Concentrates on the Classical World, the Middle Ages, and the early Renaissance. Prereq: English Composition II (or concurrently), or permission of instructor

HUM 202 Humanities in the Western World II (HC) 3 cr
Continuation of HUM 201. This course concentrates on the late Renaissance, Baroque, Romantic, and Modern periods. Prereq: English Composition II (or concurrently), or permission of instructor

INTERDISCIPLINARY STUDIES

IDS 101 College Success (L) 3 cr
The course is designed to assist incoming students make a successful transition from high school, home, or the workplace to college. The course adopts a seminar approach requiring students to use a textbook, listen to lectures, participate in discussions, and complete a variety of written and oral assignments. Adjustment and transition issues—academic, career, and interpersonal—are addressed with a structured, content-based curriculum, flexible enough to promote the exploration and resolution of individual concerns. Prereq: None

IDS 115 Introduction to Women's Studies* (L) 3 cr
Introduction to women's studies as a basis for understanding human development, social systems, and the historical and biological perspectives that affect women's lives in the twentieth century. Prereq: None

INDUSTRIAL ENGINEERING

IND 101 Machine Processes (X) 3 cr
Introduction to metal-working machines. Shapers, grinders, lathes, milling machines, welding, and casting. Numerical control systems. Inspection. Prereq: None

IND 111 Productivity Management (X) 3 cr
Industrial organization, job evaluation. Production control functions. Scheduling and dispatching. Prereq: None; Recom: BUS 101 and IND 101

IND 112 Quality Control (X) 3 cr
Scheduling, Inventory Control. Statistical concepts. Sampling. Prereq: IND 111 or permission of instructor

IND 113 Motion and Time Study (X) 3 cr
Concepts of motion economy and work simplification in the manufacturing and commercial environment. Process analysis. Motion economy and human engineering. Time studies and standards. Cost analysis, work sampling, motivation. Prereq: IND 111 or permission of instructor

IND 131 Applied Supervision (X) 3 cr
Designed to examine and improve relations and supervisory skills in the world of work. Including planning, leading, motivating, problem analyzing, lowering cost, developing employees, counseling, working with unions, handling employment activities and affirmative action situations, and achieving team effort. For present and potential supervisors. Prereq: None

IND 175 Industrial Fire Protection and Safety (X) 3 cr
Introduction to fire risk management, fire suppression and detection systems and devices; industrial storage and housekeeping practices; fire hazard control; OSHA Regulations (Subpart L). Prereq: None

IND 204 Facilities Engineering (X) 3 cr
Plant layout. Heating; ventilating; air conditioning, safety; OSHA Regulations; materials handling; maintenance. Prereq: IND 111 or permission of instructor

JOURNALISM

JOU 103 Newspaper Journalism (HL) 3 cr
An introductory course for students interested in careers in journalism or who wish to improve their writing skills. Emphasis is on news writing, but all aspects of newspaper production will be covered, including layout and design. Prereq: ENG 101, 103, or 105 or concurrent enrollment; Recom: for student working on the student newspaper
### LEISURE EDUCATION

All 1-credit LED courses are graded on a credit/no credit basis. All 2- and 3-credit LED courses are graded with letter grades.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Title</th>
<th>Units</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>LED 101</td>
<td>Swimming (X)</td>
<td>1 cr</td>
<td>The art of swimming; emphasis on skill development and complementary water safety techniques. Course is available to all students regardless of their present swimming ability. Approved for American National Red Cross certificate. Prereq: None</td>
</tr>
<tr>
<td>LED 104</td>
<td>Emergency Water Safety (X)</td>
<td>1 cr</td>
<td>Designed to develop competence in water safety practices and skills for responding to water emergencies. Leads to American National Red Cross certifications and is a prerequisite for Water Safety Instructor. Prereq: Successful completion of ANRC Competency Test for Lifeguard Training</td>
</tr>
<tr>
<td>LED 105</td>
<td>Water Safety Instructor (X)</td>
<td>2 cr</td>
<td>Designed to train and certify American National Red Cross Water Safety Instructors. Provides students with knowledge, judgment, and teaching skills for training others in swimming, rescue, and water safety. Prereq: Successful completion of LED 104</td>
</tr>
<tr>
<td>LED 106</td>
<td>Lifeguard Training (X)</td>
<td>1 cr</td>
<td>Designed to develop the skills and knowledge required to assume the responsibilities of a lifeguard at a swimming pool or a protected (nonsurf) open-water beach. Leads to American National Red Cross certification. Prereq: Successful completion of ANRC Competency Test for Lifeguard Training</td>
</tr>
<tr>
<td>LED 107</td>
<td>Fundamentals of Canoeing (X)</td>
<td>1 cr</td>
<td>Skills and strategies of modern flat water canoeing; emphasis on safety and skills development in solo and tandem paddling. Approved for American National Red Cross Basic Canoeing certification. Field trips required. Prereq: None</td>
</tr>
<tr>
<td>LED 108</td>
<td>Lifeguard Training Instructor (X)</td>
<td>2 cr</td>
<td>Designed to prepare students to teach the American National Red Cross Lifeguard Training course. Leads to ANRC certifications as lifeguard training instructor and in health services education. Prereq: Current ANRC certification in lifeguard training</td>
</tr>
<tr>
<td>LED 111</td>
<td>Fundamentals of Canoeing Instructor (X)</td>
<td>2 cr</td>
<td>Designed to train and certify American Red Cross Canoeing Instructors; provides people with the knowledge, judgment, and teaching skills for training others in basic flat water canoeing. Field trips required. Prereq: Current ANRC certification in fundamentals of canoeing</td>
</tr>
<tr>
<td>LED 113</td>
<td>Basic Sailing (X)</td>
<td>1 cr</td>
<td>Designed to teach the fundamentals of recreational sailing with an emphasis on safety and enjoyment of the sport. Approved for American National Red Cross certification in Basic Sailing. Field trips required. Prereq: None</td>
</tr>
<tr>
<td>LED 115</td>
<td>Sailing Instructor (X)</td>
<td>2 cr</td>
<td>Designed to train and certify American National Red Cross Sailing Instructors; provides the knowledge, judgment, and teaching skills for training others in basic sailing. Field trips required. Prereq: Current American National Red Cross Basic Sailing Certificate</td>
</tr>
<tr>
<td>LED 116</td>
<td>Aquatic Exercise (X)</td>
<td>1 cr</td>
<td>Various forms of recreational swimming and conditioning programs designed as a means of attaining and maintaining physical fitness. Students will develop the skills and knowledge necessary to develop, organize, administer, and instruct programs for all age groups. Prereq: None</td>
</tr>
<tr>
<td>LED 117</td>
<td>Aquatic Games and Contests (X)</td>
<td>1 cr</td>
<td>Aquatic games and contests, categorized and presented consistent with the respective swimming ability groups; emphasis on expansion and development of fundamental skills through fun. Prereq: American National Red Cross Swimmer Certification</td>
</tr>
<tr>
<td>LED 119</td>
<td>Boating (X)</td>
<td>1 cr</td>
<td>Skills of rowing and outboard motor use; emphasis on safety, skills development, and enjoyment in the use of rowboats and small motor boats. Course is taught in conjunction with the LED sailing courses (LED 113, 115). Field trips required. Prereq: None</td>
</tr>
<tr>
<td>LED 125</td>
<td>Nature Interpretation (X)</td>
<td>1 cr</td>
<td>An introduction to the interpretation of the natural and cultural environment, including specific leadership techniques and related methods and materials of nature interpretation. A problem-centered course with direct experience in the field. Field trips required. Prereq: None</td>
</tr>
<tr>
<td>LED 127</td>
<td>Outdoor Challenge/Adventure Education (X)</td>
<td>1 cr</td>
<td>An introduction to the basic challenge/adventure outdoor activities. Focus on physical, mental, and social challenge as a vehicle to individual confidence, group cooperation, and environmental understanding. Activities and experiences include the philosophy of challenge/adventure, as well as experiential learning through ropes courses, initiative problems, rock climbing, river crossing, solo experience, and group problem-solving. Field trips required. Prereq: None</td>
</tr>
<tr>
<td>LED 131</td>
<td>Basic Rock Climbing (X)</td>
<td>1 cr</td>
<td>An introduction to the philosophy, skills, and techniques of basic rock climbing. Laboratory sessions will stress the activities of bouldering, toprope climbing, and rappelling. Participants will gain adequate experience to use the sport of rock climbing as a leisure time activity. Field trips required. Prereq: None</td>
</tr>
<tr>
<td>LED 133</td>
<td>Bicycle Touring (X)</td>
<td>1 cr</td>
<td>Introduction to bicycling and bicycle touring. Focus upon the philosophy, skills, and techniques of lightweight bicycling and touring. Direct experience laboratory sessions will focus upon the selection of equipment, bicycling skills and techniques,</td>
</tr>
</tbody>
</table>
physical conditioning, lightweight bicycle touring (cycling) and personal first aid safety. Participants must provide their own equipment. Field trips required.

PreReq: None

LED 135 Alpine Skiing (X) 1 cr
The challenge/adventure activity of alpine skiing for the beginner through intermediate skier. Includes equipment selection, pre-skiing preparation, skills development and refinement, and the psychological obstacles which must be overcome to master the sport. Field trips required.

PreReq: None

LED 137 Cross-Country Skiing (X) 1 cr
Beginning, intermediate, and advanced instruction in the philosophy, skills, and techniques of cross country skiing and ski touring. Laboratory sessions stress consumer ski equipment, physical conditioning, care and repair of equipment, waxing, style and technique, winter personal safety, and first aid. Field trips required.

PreReq: None

LED 139 Hiking and Backpacking (X) 1 cr
An introduction to the basic skills and techniques of hiking and backpacking. Focus will be on the proper use and selection of backpacking equipment, camp cooking, first aid and safety, tool craft, orienteering (map and compass), and wilderness survival. Stresses skills for personal leisure activities and outdoor leadership, as well as concerns for environmental awareness and understanding. Laboratory sessions will take place in the backcountry of Franklin County, and there will be a four-day backpacking trip to the White Mountain National Forest in New Hampshire. Field trips required.

PreReq: None

LED 143 Orienteering (X) 1 cr
Provides the student with the skills of map reading and compass use. Hands-on training emphasized. Introduction to orienteering as a sport. Field trips required.

PreReq: None

LED 151 Archery (X) 1 cr
The basic skills and techniques involved in recreational archery. Emphasis on skill development and safety. Introduction to field archery, competition, and bow hunting. Field trips required.

PreReq: None

LED 153 New Games (X) 1 cr
An introduction to the fundamentals of a unique play program emphasizing "playing hard," "playing fair," "nobody hurt," "fun." The course takes a leadership development approach teaching the skills and concepts necessary to allow new games to happen. Field trips required.

PreReq: None

LED 155 Badminton (X) 1 cr
The basic skills and techniques of recreational badminton. Rules, terminology, and strategy used in singles and doubles play are covered.

PreReq: None

LED 156 Principles of Weight Training (X) 1 cr
Covers the basic training principles involved in the development of muscle strength and endurance. Includes guidelines concerning isometric, isotonic, and isokinetic progressive resistance exercises. The value of muscle strength and endurance as a lifetime physical fitness goal emphasized.

PreReq: None

LED 157 Aerobics (X) 1 cr
Physical fitness exercises and techniques aimed at the development of the cardiovascular system. Exercises combined to promote flexibility, strength, and cardiorespiratory endurance through systematic approaches. Individual cardiovascular evaluation required, individual programs planned.

PreReq: None

LED 158 Advanced Aerobics (X) 1 cr
Advanced physical fitness exercises and techniques aimed at the development of the cardiovascular system. Introduction of more advanced exercises that promote flexibility, strength, and cardiorespiratory endurance through systematic approaches.

PreReq: LED 157 or permission of instructor and a cardiovascular evaluation

LED 159 Racquetball (X) 1 cr
The basic skills and techniques essential to recreational racquetball. Covers the rules, terminology, and strategy used during singles and doubles play. The value of racquetball and other racquet sports as a lifetime recreational activity.

PreReq: None

LED 161 Golf (X) 1 cr
The basic skills of recreational golf. Students will advance at their own pace. Golf etiquette and strategy will be explained. Field trips required.

PreReq: None

LED 164 Introduction to Racquet Sports (X) 2 cr
A survey of basic skills and techniques in a variety of racquet sports and games. Emphasis on rules, terminology, and strategy used during singles and doubles play. The value of racquetball, tennis, and other racquet sports as lifetime recreational skills emphasized.

PreReq: None

LED 165 Tennis (X) 1 cr
Basic tennis instruction, emphasis upon the proper development of different strokes. Rules and strategies of singles and doubles will be covered. Field trips required.

PreReq: None

LED 166 Advanced Tennis (X) 1 cr
Advanced tennis instruction, emphasis upon individual practice and refinement of skills. Control and strategic use of slice and top spin. Field trips required.

PreReq: LED 165 or permission of instructor

LED 167 Introductory Tae Kwon Do (Karate) (X) 1 cr
A basic introduction to the Korean martial art of Tae Kwon Do Moo Duk Kwan as it has evolved from its origins from Tae Kyun in approximately 57 BC. The emphasis is on familiarization with some Korean language, stretching exercises, calisthenics, punching, blocking, and kicking techniques, practical self-defense, hyung patterns of movement and exposure to some of the philosophical underpinnings of Tae Kwon Do.

PreReq: None
LED 168 Introductory Tae Kwon Do II (Karate) (X) 1 cr
Intermediate level skills and techniques of the Korean martial art of Tae Kwon Do-Noo Duk Kwan as it has evolved from its origins in Tae Kyun in approximately 57 BC. The emphasis is on familiarization with some Korean language, stretching exercises, calisthenics, punching, block, and kicking techniques, practical self-defense, hyung patterns of movement and exposure to some of the philosophical underpinnings of Tae Kwon Do.
Prereq: LED 167 or permission of instructor

LED 171 Yoga (X) 1 cr
An introduction to Hatha Yoga practice. Class will include breath control, stretching, toning, and stress reduction. A wide range of classical yoga asanas (postures) will be covered—including forward bends, backward bends, standing poses, inverted poses, balancing, and twists. Each session will be an invigorating full-body workout. Students will gain sufficient practical knowledge to sustain independent yoga practice.
Prereq: None

LED 172 Self-Defense for Women (X) 2 cr
Introduces physical and psychological skills necessary for self-defense. Involves learning the use of various parts of the body as weapons. Examines techniques of awareness necessary for prevention. Through meditation, discussion, and writing exercises, students learn to realize and overcome women's psychological blocks to their own defense.
Prereq: For women only

LED 173 Bowling (X) 1 cr
The skills and techniques needed to bowl with proficiency and enjoyment. The history of bowling, its present status, and its value as a lifetime sport.
Prereq: None

LED 177 Volleyball (X) 1 cr
The basic skills and techniques of modern power volleyball. Strategies of team play are emphasized.
Prereq: None

LED 178 Advanced Volleyball (X) 1 cr
Advanced training in the skills of power volleyball. Emphasis is placed upon the understanding of the 6-1 offense and defense, and the evaluation of advanced skills.
Prereq: LED 177 or permission of instructor

LED 181 Basic Officiating (X) 1 cr
Provides the basic rules and procedures needed for officiating within informal settings. Includes basketball, volleyball, softball, baseball, soccer, tennis, and racquetball. Suitable for use on playgrounds, in YMCA's, etc.
Prereq: None

LED 183 Ballroom Dancing I (X) 1 cr
Designed to give physical enjoyment to participants through the performance of the specific rhythms and movements of smooth and Latin dancing and social satisfaction through group participation. The fundamentals of fox trot, waltz, swing, rumba, and tango will be taught with an emphasis on dance positions, leading and following, and dance etiquette.
Prereq: None

LED 191 Recreational Dance (X) 1 cr
Designed to provide the opportunity to increase basic dance skills. Introduction to basic rhythms, folk, square, and social dances. Field trips required.
Prereq: None

LED 193 Contemporary Food Experiences (X) 1 cr
The basic principles and preparation techniques of natural foods. An activity oriented approach which will focus upon eating patterns, nutrition, and consumerism. Class activities will range from food planning and preparation to utilization of the community as a learning resource.
Prereq: None

LED 195 Nature Crafts (X) 1 cr
Familiarity with and development of skills within a variety of nature craft activities. Incorporates the use of natural, inexpensive materials into arts and crafts. Teaching approaches, leadership, and organizational skills appropriate to nature craft programs. Field trips required.
Prereq: None

LED 199 Creative Dramatics (X) 1 cr
Prepares recreation leaders to direct informal creative dramatics for all age groups. Includes improvisation, pantomime, storytelling, characters, dramatic games, and acting combined with other art forms. Field trips required.
Prereq: None

MATHEMATICS

MAT 100 Basic Mathematics Skills (D) 3 cr
Students use a variety of materials and problem-solving techniques to deepen their understanding of basic arithmetic operations, fractions, decimals, percents, and measurement. Mathematical discovery is emphasized. Students will analyze problems and arrive at solutions using the techniques of mathematical reasoning. Issues of math anxiety, test-taking difficulties, and study skills for math are all addressed. Useful as a refresher, foundation for other math and math-related courses, or for developing mathematical skills necessary in job situations. Math Center lab work required.
Prereq: None

MAT 103 Applied Mathematics I (NC) 3 cr
Applied mathematics with emphasis on developing general mathematical understanding and problem-solving skills. Brief review of fundamental algebraic concepts, calculator use, functions and graphs, trigonometric functions and applications, systems of linear equations, factoring and fractions, quadratic equations, and exponents and radicals. Solution of word problems an important component of course. The computer program MathCAD will be used to enhance the study of mathematics.
Prereq: Successful completion of at least two years of college preparatory secondary school mathematics, or MAT 106 or equivalent

MAT 104 Applied Mathematics II (NC) 3 cr
Applied mathematics with emphasis on developing general mathematical understanding and problem-solving skills. Oblique triangle trigonometry, graphs of trigonometric functions, complex numbers and polar forms, inequalities, conic sections

84 Credit Courses

For information on Advising Codes see inside back cover.
analytic geometry, and equations of higher degree. Solution of word problems is an important component of course. The computer program MathCAD will be used to enhance the study of mathematics.
Prereq: MAT 103 or equivalent

**MAT 105 Algebra and Coordinate Geometry I (D) 3 cr**
An introductory algebra course which assumes a working knowledge of basic arithmetic skills. Concepts involving positive and negative numbers, variables, linear equations, polynomials, and integer exponents will be developed. Students work with applications and graphical representations to help them understand and connect algebraic concepts to real world situations.
Prereq: MAT 100 or placement by examination

**MAT 106 Algebra and Coordinate Geometry II (D) 3 cr**
Continues the development of basic algebra concepts and concentrates on techniques and applications. Topics include graphs (with emphasis on graphs of linear equations), systems of linear equations, algebraic expressions (particularly rational exponents and radicals, polynomials, and rational expressions) and quadratic equations.
Prereq: MAT 105 or placement by examination

**MAT 107 College Algebra (NC) 3 cr**
This course is the gateway to the study of higher mathematics. It is prerequisite for precalculus (MAT 108) and applied calculus (MAT 151). It is also useful preparation for the study of other courses with quantitative content. Its focus is on the principles, properties, and applications of functions and their graphs and the use of functions to model real problems. There will be a particular emphasis on polynomial and rational functions and their inverses. Graphing calculators and/or the computer program "MathCAD" will be used to enhance the study of mathematics.
Prereq: MAT 106 or placement by examination

**MAT 108 Elementary Functions (NC) 3 cr**
This course is preparation for calculus 201 and the physical sciences. Principles, properties, and applications of functions and their graphs and the use of functions to model real problems will be investigated. This course will briefly revisit functions discussed in MAT 107 and then focus heavily on exponential, logarithmic, and circular trigonometric functions. Graphing calculators and/or the computer program "MathCAD" will be used to enhance the study of mathematics.
Prereq: MAT 107 or placement by examination

**MAT 114 Probability and Statistics (NC) 3 cr**
Introduces students to the organization, presentation, and interpretation of data. Measures of central tendency and dispersion, distribution of measurements, binomial and normal probability distributions will be presented. Students introduced to statistical inference, hypothesis testing, and linear regression and correlation. Computers and/or graphing calculators may be used to enhance the study of mathematics.
Prereq: MAT 106 or placement by examination

**MAT 115 Statistical Process Control (NC) 3 cr**
An introduction to the use of statistical methods in production and service organizations. Topics will include discrete and continuous experiments, summary measures, data collection and presentation, the law of averages, discrete and continuous probability models, histograms, control charts, and process capability.
Prereq: BUS 205; DAT 129 concurrent or equivalent; MAT 106 or concurrent

**MAT 117 Mathematical Problem Solving (NC) 3 cr**
Designed to provide students in the liberal arts with a foundation in mathematical reasoning and quantitative skills frequently required in decision-making processes. Ideas rather than techniques will be stressed. This course will examine general problem-solving strategies and will provide students with an introduction to topics that might include, but are not limited to: number theory, mathematical modeling, graph theory, logic, probability, and descriptive statistics. The choice of topics will be determined each semester by the math department. Computer programs may be used to enhance the study of mathematics.
Prereq: Placement by examination or MAT 105 or equivalent

**MAT 119 Quick Technical Math (NL) 3 cr**
A one semester course in scientific math for the student who needs immediate command of certain mathematical concepts and skills which are typically encountered in physical science courses such as chemistry, physics, electronics, and generally, other math-based courses. Such topics would normally be dealt with more fully in courses such as MAT 103, 104, 105, 106, 107, 108. Not intended to replace the normal math sequences, but merely to expedite and facilitate mathematical progress in the sciences until such time that the normal math deficiencies or prerequisites can be satisfied.
Prereq: Math through high school Algebra I or permission of instructor

**MAT 151 Applied Calculus I (NC) 4 cr**
Provides a practical approach to the basic tools and methods of calculus. Topics include functions and their graphs, limits, the derivative, and the integral. Models and applications from many fields will be considered in some cases using the computer program MathCAD and/or graphing calculators.
Prereq: MAT 104 or MAT 107 or placement by examination

**MAT 152 Applied Calculus II (NC) 3 cr**
Introduces students to logarithmic and exponential functions and their applications as well as to the calculus of these functions. Techniques of integration will be presented. Modeling projects will allow students to study additional topics such as the calculus of functions of several variables, differential equations, and probability theory in several cases using MathCAD and/or graphing calculators.
Prereq: MAT 151

**MAT 201 Calculus with Analytic Geometry I (NC) 4 cr**
A theoretical and applied calculus course for students interested in mathematics, engineering, and the physical sciences. Assumes an understanding of polynomial, rational, exponential, and trigonometric functions. Develops the concept of limits and continuity and uses them to define the derivative of a function. The derivative is used to analyze function behavior and solve problems involving rates of change and optimization. Integration is introduced as both antiderivative and area. Problems are approached numerically, graphically, and symbolically. Laboratory assignments utilize MathCAD and/or a graphing calculator for both in-class and out-of-class investigations.
Prereq: MAT 104 or MAT 108 or placement by examination
MAT 202 Calculus with Analytic Geometry II (NC) 4 cr
Inverse functions and their derivatives: exponential and logarithmic functions with applications. Techniques of integration. Polar coordinates. Improper integrals. Infinite series and tests of convergence. Taylor series. The computer program MathCAD will be used to enhance the study of mathematics.
Prereq: MAT 201

MAT 203 Multivariate Calculus (NC) 4 cr
Vectors and solid analytic geometry. Functions of several variables. Partial derivatives with applications. Multiple integrals with applications. Line integrals. Green's Theorem. The computer program MathCAD may be used to enhance the study of mathematics.
Prereq: MAT 202

MAT 204 Elementary Differential Equations (NC) 4 cr
Topics in ordinary differential equations to be considered include separation of variables, homogeneous equations, exact equations, differential operators, series solutions, and solution by Laplace transform. The methods will be applied to problems from engineering, physics, and chemistry. The computer program MathCAD may be used to enhance the study of mathematics.
Prereq: MAT 202

MAT 205 Elementary Linear Algebra (NC) 3 cr
Vector space and subspaces, bases and dimension. Algebra of matrices. Linear transformations. Determinants. Applications to linear systems. The computer program MathCAD may be used to enhance the study of mathematics.
Prereq: MAT 202 or permission of instructor

MUS 108 Music Theory II (HC) 3 cr
Dominant seventh and extended chords in root position and inversions. Modulation to closely related keys. Harmonic analysis of great composers' works. Keyboard harmony and ear training.
Prereq: MUS 107 or permission of instructor

MUS 110 Ear Training and Dictation (HL) 1 cr
A series of exercises and drills designed to develop aural recognition and understanding of basic music structures. Scale structures, intervals, triads and inversions, seventh chords and inversions, identification of parts in choral style and various rhythmic patterns in simple and compound meters are presented in graded exercises and drills. This course may be repeated to a maximum of 3 credits.
Prereq: MUS 103 or permission of instructor; Recom: Concurrent enrollment in MUS 107 or 108

MUS 111 Chorus (HL) 1 cr per semester
Performance of choral works from the various style periods, folk music, and popular repertoire. Choral techniques. Required of the potential music major whose performance field is voice, keyboard, or guitar. Available as an elective to qualified non-music majors. Also open for participation, without credit, to qualified members of the College staff and the community.
Prereq: None

MUS 112 Concert Previews (HL) 2 cr
Analysis of the major forms of symphonic music from the 17th to the 20th century, including music the Pioneer Valley Symphony Orchestra will perform in this year's concert season. Active listening skills will be stressed as well as the stylistic and historical context of the music.
Prereq: None

MUS 101 An Introduction to Music (HC) 3 cr
A survey of musical styles from the Baroque era into the 20th century. Musical forms, elements of music, the orchestra, and great composers are discussed in conjunction with critical listening of recorded examples and live performances.
Prereq: None

MUS 102 The American Experience in Music (HC) 3 cr
A survey of the currents in American music from native American and early Colonial sources to Jazz and the Big Bands. Recordings, films, and live performances illustrate aspects of the musical language.
Prereq: None

MUS 103 Fundamentals of Music (HC) 3 cr
Elementary theory for the student with little or no musical background. Music structure and the handling of musical materials. Includes notation, scales, melody construction, elementary theoretical concepts.
Prereq: None

MUS 107 Music Theory I (HC) 3 cr
Basic chordal structures, voice leading, inversions, figured bass, harmonic progressions, and non-harmonic tones. Harmonic analysis of great composers' works. Keyboard harmony and ear training.
Prereq: MUS 103 or permission of instructor

MUS 117 Class Piano: Beginning Level (HL) 1 cr
Especially designed for students with no background in piano, this course is taught on electronic pianos where each student has a keyboard. Students learn to read music and play familiar melodies with chords. Each class section is limited to 6 students.
Prereq: None

MUS 118 Class Piano: Intermediate Level (HL) 1 cr
Designed for students who have some basic piano skills, this course is taught on electronic pianos where each student has a keyboard. Students learn to read and play expanded melodies, harmonies, and transposition. Literature includes solos and duets. Each class section is limited to 6 students.
Prereq: MUS 117 or permission of instructor

MUS 119 Class Piano: Advanced Level (HL) 1 cr
For intermediate/advanced students. Development of techniques, sight reading, melody harmonization, solo and ensemble literature. Special emphasis will be given to technique and interpretation.
Prereq: MUS 118 or permission of instructor

86 Credit Courses

For information on Advising Codes see inside back cover.
MUS 131 Music Lessons: String Instruments (HL) 1 cr
Individual instruction in violin, viola, cello, bass, guitar, and other string instruments, consisting of 15 half-hour lessons during the semester. A fee in addition to tuition and fees is charged.
Prereq: None

MUS 132 Music Lessons: Wind Instruments (HL) 1 cr
Individual instruction in flute, clarinet, saxophone, and other wind instruments, consisting of 15 half-hour lessons during the semester. A fee in addition to tuition and fees is charged.
Prereq: None

MUS 133 Music Lessons: Brass Instruments (HL) 1 cr
Individual instruction in trombone, baritone, trumpet, tuba, and other brass instruments, consisting of 15 half-hour lessons during the semester. A fee in addition to tuition and fees is charged.
Prereq: None

MUS 134 Music Lessons: Percussion Instruments (HL) 1 cr
Individual instruction in piano and other percussion instruments, consisting of 15 half-hour lessons during the semester. A fee in addition to tuition and fees is charged.
Prereq: None

MUS 135 Music Lessons: Voice (HL) 1 cr
Individual instruction in voice, consisting of 15 half-hour lessons during the semester. A fee in addition to tuition and fees is charged.
Prereq: None

MUS 136 Music Lessons: Ensemble (HL) 1 cr
Study and performance of chamber music literature for orchestral instruments and music arranged for band instruments. Literature includes duos, trios, quartets from the various historical periods and jazz, Dixieland, popular, and rock musical styles. A fee in addition to tuition and fees is charged.
Prereq: Permission of instructor

MUS 141 Music Lessons: String Instruments (HL) 2 cr
Individual instruction in violin, viola, cello, bass, guitar, and other string instruments, consisting of 15 one-hour lessons during the semester. A fee in addition to tuition and fees is charged.
Prereq: None

MUS 142 Music Lessons: Wind Instruments (HL) 2 cr
Individual instruction in flute, clarinet, saxophone, and other wind instruments, consisting of 15 one-hour lessons during the semester. A fee in addition to tuition and fees is charged.
Prereq: None

MUS 143 Music Lessons: Brass Instruments (HL) 2 cr
Individual instruction in trombone, baritone, trumpet, tuba, and other brass instruments, consisting of 15 one-hour lessons during the semester. A fee in addition to tuition and fees is charged.
Prereq: None

MUS 144 Music Lessons: Percussion Instruments (HL) 2 cr
Individual instruction in piano and other percussion instruments, consisting of 15 one-hour lessons during the semester. A fee in addition to tuition and fees is charged.
Prereq: None

MUS 145 Music Lessons: Voice (HL) 2 cr
Individual instruction in voice, consisting of 15 one-hour lessons during the semester. A fee in addition to tuition and fees is charged.
Prereq: None

MUS 146 Music Lessons: Ensemble (HL) 2 cr
Study and performance of chamber music literature for orchestral instruments and music arranged for band instruments. Literature includes duos, trios, quartets from the various historical periods and jazz, Dixieland, popular, and rock musical styles. A fee in addition to tuition and fees is charged.
Prereq: Permission of instructor

NURSING

NOTE: A grade of C+ or better is required in all science courses in the nursing program. A grade of C or better is required in all non-science co-requisite courses.

NUR 100 Fundamentals of Practical Nursing (X) 11 cr
Provides the basic principles of nursing care in classroom, laboratory, and clinical settings. Emphasis is placed on maintaining a safe and comfortable environment to meet personal care needs of patients in hospitals and nursing home settings. Microbiological, nutritional, and pharmacology principles are integrated in the teaching of basic nursing process skills. Vocational trends, including legal and ethical issues will be introduced.
Prereq: PNC majors only

NUR 101 Fundamentals of Nursing (X) 8 cr
Designed to provide a foundation for nursing practice. The student is introduced to the concepts of health, illness, and adaptation. The nursing process is presented as a foundation for nursing practice. Emphasis is placed on assessment of the individual's ability to adapt to stressors and on the basic skills needed to assist the individual in this process.
Prereq: CHE 105 or 111 or one year of high school chemistry (within 5 years); MAT 106 or equivalent; ENG 101, 103, or 105 or concurrent enrollment; PSY 101 or concurrent enrollment; BIO 105 or concurrent enrollment

NUR 102 Family-Centered Nursing (X) 7 cr
Designed to introduce the student to the uniqueness of the family within our changing society. Emphasis is placed upon assisting the family in the process of adapting to child bearing and child rearing. The nursing process is utilized as it relates to the nursing care of children and pregnant women. The course is divided into two units: the maternity unit and the pediatric unit. The maternity unit focuses on the normal maternity cycle, including the needs of the neonate, the newly delivered mother, and the family. Emphasis in the pediatric unit is on the ability to recognize normal growth and development and to identify deviations within the acute and chronic setting.
Prereq: SOC 101 or concurrent enrollment in SOC 101, NUR 101 and PSY 217, or concurrent enrollment in PSY 217; BIO 106 or concurrent enrollment.
NUR 103 Fundamentals of Practical Nursing (X) 11 cr
Provides the basic principles of nursing care in classroom, laboratory, and clinical settings. Emphasis is placed on meeting basic needs of clients and families. Introduces principles of anatomy and physiology, microbiology, nutrition, pharmacology, and the nursing process. Vocational trends, including legal and ethical issues, will be introduced.
Prereq: PNC majors only

NUR 105 Practical Nursing Practicum (X) 2 cr
Provides directed application through in-depth clinical practice of all the principles learned in NUR 100, BIO 115, and PSY 101. Technical, organizational, and communication skills will be emphasized.
Prereq: PNC majors only with NUR 103, BIO 117, and PSY 101

NUR 107 Nursing Care of Clients and Families (X) 14 cr
Prepares students to assist clients and families in coping and adapting to common illnesses. Integration of principles from sciences, nutrition, pharmacology, nursing, and human growth and development is emphasized. Vocational trends, including entry into practice issues, will be presented.
Prereq: NUR 105; PSY 217 or concurrent enrollment

NUR 109 Advanced Concepts in Practical Nursing (X) 5 cr
Prepares students to assist clients and families in coping and adapting to multi-system illness by recognition of alterations in health status. Emphasis is on integration and application of all previous content in this final course of the curriculum. Current vocational trends and leadership skills included.
Prereq: NUR 107

NUR 111 Introduction to Professional Nursing and the Nursing Process (X) 1 cr
This course is designed to introduce the adaptation theory of nursing and the nursing process as a foundation for professional nursing practice. Licensed practical nurses are provided with the opportunity to assess patients' physiological and psycho-social status and to utilize appropriate nursing diagnosis. The course provides opportunity to discuss the role of the professional nurse. Graded on CR/NC basis. Successful completion of NUR 111 and NUR 102 results in the award of 7 credits by examination for NUR 101.
Prereq: For LPNs who have successfully challenged NUR 101 and/or NUR 102

NUR 201 Adaptation to Illness: Medical-Surgical Nursing I (X) 8 cr
Designed to provide correlation between nursing theory and clinical practice. Emphasis is placed upon assessment of the level of adaptation and the nursing process. Individual needs of patients located at some point on the health-illness continuum form a basis for the integration of pharmacology, nutrition, diet therapy, and interpersonal relationships into a developing framework of knowledge.
Prereq: NUR 101 and 102; BIO 106; BIO 205 or concurrent enrollment

NUR 202 Adaptation to Illness: Medical-Surgical Nursing II (X) 9 cr
A continuation of NUR 201. Additional depth and breadth is provided, focusing on pathophysiology. Emphasis is placed upon the mechanisms of adaptation and the use of the nursing process. In addition, concepts of rehabilitation, the teaching-learning process, family and community psychodynamics, and nursing leadership are presented to provide the student with a more comprehensive view of the nursing process and the ability to promote patient adaptation.
Prereq: NUR 201, NUR 203; BIO 205; ENG 112, 114, or 116 or concurrent enrollment; HUM elective or concurrent enrollment

NUR 203 Mental Health Nursing (X) 4 cr
Focuses on mental health nursing principles in the formulation of a therapeutic approach to patient care. People are viewed holistically as complex organisms in constant interaction with physiological and psycho-social stressors. The nurse is viewed as a facilitator of adaptation, using the nursing process to establish a plan of care based on an understanding of the individual, family, and society.
Prereq: NUR 101 and 102; BIO 106; BIO 205 or concurrent enrollment

NUR 204 Trends and Issues in Nursing (X) 2 cr
Focuses on the political, social, economic, and legal issues that influence the nursing profession. The history of nursing, professional organizations, educational and employment opportunities in nursing are considered. Nursing is viewed as a dynamic profession in which the nurse is a facilitator of adaptation to the changes which result from constant interaction with socio-economic and political forces in our health care delivery system.
Prereq: NUR 201 and 203; concurrent enrollment in NUR 202

OFFICE ADMINISTRATION

ADM 101 Shorthand I (X) 3 cr
Gregg Shorthand, Series 90, daily drill for mastery of outlines, brief forms, phrasing, other abbreviating principles; pretranscription training including attention to spelling, grammar, and punctuation.
Prereq: None

ADM 102 Shorthand II (X) 3 cr
Review of Gregg Shorthand, Series 90, with emphasis on vocabulary building and speed building through dictation. Minimal standards set at 60 wpm for three minutes.
Prereq: ADM 101 or equivalent

ADM 106 Keyboarding for Information Processing (X) 1 cr
Designed to develop basic touch keyboarding skill; input alphabetic, numeric, and symbol information quickly and accurately; emphasizes the basic vocabulary and concepts used in keyboarding operations for inputting and retrieving information. Laboratory suggested. This course is graded on a Credit/No Credit basis.
Prereq: None

ADM 111 Typewriting Development I (X) 3 cr
The keyboard, accuracy, and speed; parts of the machine and preventive maintenance; centering horizontal and vertical typing; business letters. Laboratory required.
Prereq: None

88 Credit Courses

For information on Advising Codes see inside back cover.
OUTDOOR LEADERSHIP

All OLP courses are graded on a CR/NC basis.

OLP 111 Introduction to Outdoor Adventure
Programs and Services (X) 3 cr
Provides the information and training needed for planning and implementing outdoor leadership and challenge adventure programs. Includes the philosophy, content, and methods of outdoor programs. Emphasis on the adaptation to different sets of circumstances and the needs of special populations. Students are required to meet specific performance criteria as a demonstration of competence. Field trips required.
Prereq: OLP participants only

OLP 112 Counseling and Human Services for
Outdoor Leaders (X) 3 cr
An introduction to the basic concepts and techniques of interpersonal counseling, environmental psychology, and special needs populations. The course emphasizes the mastery of techniques through problem-solving and field applications. Incorporation of the skills and knowledge into outdoor activities is stressed.
Prereq: OLP participants only

OLP 116 Field Work Experience in Outdoor
Leadership I (X) 4 cr
Field experience in the basic stages of planning, organizing, and evaluating outdoor leadership and challenge/adventure programs. Settings will vary to permit exposure to different circumstances and the needs of different populations. Field trips required.
Prereq: OLP participants only

OLP 120 Backcountry Medicine
and Emergency Care (X) 3 cr
Course based on American Red Cross Advanced First Aid and National First Responder Certifications. Special emphasis on the skills and abilities required of outdoor leaders for the prevention and care of backcountry emergencies. Competency assessment and in-the-field practical simulations.
Prereq: OLP participants only

OLP 124 Environmental Interpretation (X) 3 cr
An introduction to the interpretation of the natural and cultural environments. Focus upon specific taxonomical understanding of environments. The development of specific leadership techniques and related methods and materials of interpretation. Field oriented in design and structure. Emphasizes the incorporation of interpretation aspects into outdoor programs.
Prereq: OLP participants only

OLP 127 Outdoor Adventure, Methods,
and Materials (X) 3 cr
An introduction to challenge/adventure and outdoor activities. Presents these activities as vehicles for promoting individual confidence, group cooperation, and environmental understanding. Students must meet certain performance criteria to demonstrate acquired competencies.
Prereq: OLP participants only
OLP 140 Rock Climbing (X) 1 cr
An introduction to the philosophy, skills, and techniques of basic rock climbing. Lab sessions will stress the activities of bouldering, toprope climbing, and rappelling. Participants will gain adequate experience to use the sport of rock climbing as a leisure time activity and as an assistant outdoor leader. Field trips required.
Prereq: OLP majors and/or permission of instructor

OLP 141 Flat Water Canoeing (X) 1 cr
Skills and strategies of modern flat water canoeing; emphasis on safety and skill development in both tandem and solo paddling. Approved for American Red Cross Basic Canoeing certification.
Prereq: OLP majors and/or permission of instructor

OLP 142 Cross-Country Skiing (X) 1 cr
Beginning, intermediate, and advanced instruction in the philosophy, skill, and technique of cross country skiing and ski touring. Skill lab sessions stress consumer ski equipment; physical conditioning, care and repair of equipment; waxing; style and technique; and winter personal safety and first aid. Field trips required.
Prereq: OLP majors and/or permission of instructor

OLP 143 Winter Camping (X) 1 cr
Introduction to skills, philosophy, and techniques of winter camping and cold weather travel. Emphasis on safety, winter hiking and camping techniques, shelter construction, and leadership considerations. Field trips required.
Prereq: OLP majors and/or permission of instructor

OLP 144 Survival Education (X) 1 cr
Introduction to skills and abilities of survival in the wilderness and the built environment. Focus upon shelter, food, direction finding, signalling, and the psychology of survival. Simulated survival situation in the backcountry. Field trips required.
Prereq: OLP majors and/or permission of instructor

OLP 145 White Water Canoeing (X) 1 cr
Introduction to the skills, philosophy, and techniques of white water canoeing. Emphasis on safety, equipment selection and use, skill development, and fun in basic, intermediate, and solo canoeing in Class II and III rivers. Field trips required.
Prereq: OLP majors and/or permission of instructor

OLP 151 Introduction to Environmental Programs and Services (X) 3 cr
Provides the information and training needed for planning and implementing Environmental Education and Environmental Interpretation programs and services. Includes philosophy, content, and methods of environmental-oriented programs. Emphasis placed upon different environmental program settings and the needs and expectations of a range of program participants.
Prereq: OLP majors and/or permission of instructor

OLP 155 Environmental Field Studies I (X) 3 cr
In-the-field studies of the basic ecology of natural and cultural features of the New England landscape. Focus upon trees and shrubs, mammals, geology, weather, limnology, forest succession, New England landuse history, and other concepts. Field studies will take place in selected settings including rural, farmland, backcountry, mountains, Atlantic sea coast, and urban/suburban landscapes.
Prereq: OLP majors and/or permission of instructor

OLP 156 Environmental Field Studies II (X) 3 cr
A continuation of Environmental Field Studies I with an intermediate-level focus upon natural and cultural history of specific in-the-field sites. Plot study techniques for winter and spring field study and environmental pollution assessment. Special field studies of winter ecology, North American mammals, forestry practices, and the Great Smoky Mountains National Forest. Introduction to modern field study curricula and the use of media equipment and techniques. Each student conducts a specific field plot study.
Prereq: OLP majors and/or permission of instructor

OLP 157 Environmental Education/Interpretation Methods and Materials (X) 3 cr
A survey of the methods, techniques, and approaches used in Environmental Education and Interpretation. Focus upon competencies central to the communication of environment-oriented philosophy and content to program participants. Topics include nationally recognized environmental education curricula, in-the-field interpretation techniques and activities, audio-visual presentations, living history programs, and visitor center operation.
Prereq: OLP majors and/or permission of instructor

OLP 175 Outdoor Adventure Education (X) 3 cr
Focusing upon the philosophy, skills, and techniques of outdoor adventure activities and experiences, and using physical, mental, and social challenges as vehicles for individual confidence, group cooperation, and environmental awareness, the course will include a range of activities including orienteering, ropes course, rock climbing, backpacking, 24-hour experience, environmental interpretation, nature-oriented activities, and outdoor education. The majority of the course will take place in the field with "hands-on experiences." Participants can select from one of three concentrations: camp counselor/outdoor leader; teacher/human service personnel; parents/interested citizens.
Prereq: None

OLP 176 Winter Outdoor Adventure Education (X) 3 cr
Focusing upon the philosophy, skills, and techniques of winter outdoor adventure activities and experiences, and using physical, mental, and social challenges as vehicles for individual confidence, group cooperation, and environmental awareness, includes a range of activities including cross country skiing, snowshoeing, winter camping, first aid and safety, winter ecology, nature-oriented activities, tracking, group building, and winter environmental interpretation. The majority of the course will take place in the field with "hands-on experiences." Sequel to the summer Adventure Education course. The strenuousness of the course will be determined by the experience, interest, and needs of the participants.
Prereq: Permission of instructor (must fill out health and information forms)

OLP 201 Individual Project in Outdoor Leadership I (X) 1 cr
A self-directed learning project focused upon student-identified content, methods, and materials. Content specific to student's career goals and training priorities. Combination of Outdoor Leadership theory and practice.
Prereq: OLP majors and/or permission of instructor

90 Credit Courses

For information on Advising Codes see inside back cover.
OLP 202 Individual Project
in Outdoor Leadership II (X) 2 cr
A continuation of OLP 201, with a more in-depth study of the
student-selected theory and/or practice topic of Outdoor
Leadership.
Prereq: OLP major and/or permission of instructor

OLP 206 Seminar in Environmental Issues (X) 3 cr
A survey of the major environmental issues facing the world
community: pollution, wildlife, farmland, conservation,
hazardous waste, energy, and other contemporary topics. Semin-
ar will include field trips, guest speakers, and conference
attendance.
Prereq: OLP major and/or permission of instructor

OLP 211 Advanced Outdoor Adventure Programs
and Services (X) 3 cr
Provides advanced information and training for planning and
implementing outdoor leadership and challenge/adventure
programs. Includes the philosophy, content, and methods of
outdoor programs. Emphasis on the adaptation to different sets of circumstances and the needs of special populations.
Students are required to meet specific performance criteria as a
demonstration of competence. Continuation of OLP 111.
Prereq: OLP majors only

OLP 212 Counseling and Human Services for
Outdoor Leaders (X) 3 cr
In-depth study of the concepts and techniques of interper-
sonal counseling, environmental psychology, and special
needs populations. The course emphasizes the mastery of techniques through problem-solving and field applications.
Incorporation of the skills and knowledge into outdoor activities is stressed. Apply the concepts to the field.
Prereq: OLP majors only

OLP 216 Field Work Experience in Outdoor
Leadership II (X) 4 cr
Field experience in the advanced stages of planning, organizing,
and evaluating outdoor leadership and challenge/adventure
programs. Emphasis will be given to fashioning and modifying the design of programs to suit particular agency and
population requirements. Field trips required.
Prereq: OLP majors only

OLP 217 Field Work Experience in Outdoor
Leadership III (X) 4 cr
Field experience in the intermediate stages of planning, organizing,
and evaluating outdoor leadership and challenge/adventure programs. Settings will vary to permit exposure to
different circumstances and the needs of different popula-
tions. Work in selected public/private agencies.
Prereq: OLP majors only

OLP 218 Field Work Experience in Outdoor
Leadership IV (X) 4 cr
Field experience in the advanced stages of planning, organiz-
ing, and evaluating outdoor leadership and challenge/adventure programs. Emphasis will be given to fashioning and
modifying the design of programs to suit particular agency and
population requirements. Optional Agency internship. Work in
selected public/private agencies.
Prereq: OLP majors only

OLP 220 Intermediate and Advanced Wilderness
First Aid and Emergency Care (X) 3 cr
Prevention and care of wilderness emergencies. Advanced
skills and abilities. Special focus upon Wilderness Emergency
Medical Technician (WEMT) and Red Cross Advanced First
Aid Instructor. In-the-field leadership and instructorship highly
recommended.
Prereq: OLP major or permission of instructor

OLP 224 Environmental Interpretation II (X) 3 cr
Interpretation of the natural and cultural environments. Focus
upon specific taxonomical understanding of environments.
The development of specific leadership techniques and related
methods and materials of interpretation. Field-oriented in
design and structure. Course emphasizes the incorporation of interpretation aspects into outdoor programs and
leadership function.
Prereq: OLP majors only

OLP 227 Advanced Outdoor Adventure Methods
and Materials (X) 3 cr
Intermediate and advanced study to challenge/adventure and
outdoor activities. Presents these activities as vehicles for
promoting individual confidence, group cooperation and envi-
ronmental understanding. Students must meet certain perfor-
ance criteria to demonstrate acquired competencies.
Prereq: OLP majors only

OLP 240 Intermediate and Advanced
Rock Climbing (X) 1 cr
The philosophy, skills, and techniques of intermediate rock
climbing. Lab sessions will stress the activities of bouldering,
toprope climbing, and rappelling. Participants will gain ade-
quate experience to use the sport of rock climbing as a
leisure time activity and as an assistant outdoor leader. Optional Rock Climbing Instructor Certification.
Prereq: OLP major and/or permission of instructor

OLP 241 Intermediate and Advanced
Flat Water Canoeing (X) 1 cr
Intermediate and advanced skills and techniques of modern flat water canoeing. Emphasis on safety and skill develop-
ment for both tandem and solo paddling. Introduction to canoe
tripping and transition skills for white water canoeing. Appro-
ved for American National Red Cross Basic Canoeing Certification. Optional Flatwater Canoe Instructor Certification.
Prereq: OLP major and/or permission of instructor

OLP 242 Cross-Country Skiing (X) 1 cr
Intermediate and advanced instruction in the philosophy,
skills, and techniques of cross country skiing and ski touring.
Skill lab sessions stress consumer ski equipment, physical
conditioning, care and repair of equipment, waxing, style and
technique, and winter personal safety and first aid. Optional
Nordic Ski Patrol Member.
Prereq: OLP major and/or permission of instructor
PHYSICAL EDUCATION, SPORTS MANAGEMENT, ATHLETIC TRAINING

PSA 101 Introduction to Physical Education (A) 3 cr
An introduction to physical education as a profession and career. Includes an orientation to the curriculum, foundations in the discipline of physical education, and an exploration of career opportunities. Focus of the course will be on professional preparation and development, teaching styles, instructional strategies, and evaluation in physical education.
Prereq: None

PSA 103 Introduction to Athletic Training (A) 4 cr
The course covers the fundamental principles of athletic training, which include terminology, principles of conditioning, responsibilities of the athletic trainer, organization and function of the training room, and recognition, causes, and treatment of athletic injuries. The course will expose the student to the professional preparation of the athletic trainer and his/her role as a professional in the field.
Prereq: None

PSA 105 Introduction to Sports Management (A) 3 cr
The course provides an overview of the business of sport to include career opportunities. The course will cover the administration and management of the sports industry to include sports marketing, facility management, information systems, managerial accounting in sports, media relations and sports law. Covers all levels of sports management including educational, industrial, commercial, and professional.
Prereq: None

PHILOSOPHY

PHI 101 Logic and Scientific Method (HC) 3 cr
Traditional logic; the deductive process of reasoning and method of knowing and handling the material of science; the inductive process.
Prereq: None

PHI 103 Introduction to Philosophy (HC) 3 cr
Introduction to the major, classical philosophical problems through a thematic approach. Emphasis on active, informal discussion of contemporary issues.
Prereq: None

PHI 105 Bio-Medical Ethics* (HC) 3 cr
Examination of the theoretical and historical foundations of bioethics. Emphasis on the application of ethical theory to the analysis of contemporary issues in health care. Special attention to the cultural context of bioethical problems, specifically issues of race, class, and gender.
Prereq: None

PHI 107 World Religions* (HC) 3 cr
A survey of the beliefs and practices of the world’s living religions; a definition of what religion is and an examination of the religious experience.
Prereq: None

PHI 108 Knowledge and Values (HC) 3 cr
An introduction to philosophical problems regarding the nature of knowledge and values. We will address problems of skepticism and relativism, and alternative accounts of knowing and evaluating within several domains, including scientific and moral inquiry; and we will examine some public policy controversies where these issues are important. We will also consider criticisms of traditional conceptions of knowledge and moral reasoning raised by recent feminist thinkers.
Prereq: None

PHYSICS

PHY 101 General Physics I (NC) 4 cr
A non-calculus study of mechanics, heat, and sound for students without a calculus background, but who anticipate continued study in the field of science, mathematics, engineering, or related fields. Lab required.
Prereq: Trigonometry, concurrent math, or permission of instructor

PHY 102 General Physics II (NC) 4 cr
A continuation of PHY 101, non-calculus treatment of the fields of light, electricity, and magnetism, and atomic and nuclear physics with some topics from modern physics. Lab required.
Prereq: PHY 101, concurrent math, or permission of instructor

PHY 105 Introductory Electronics (NC) 4 cr
A study of the basics of analog electronic devices in DC and AC circuits. Topics include: electrical nature of matter; current, voltage; resistance; power; capacitance; magnetism; inductance; use of equipment to measure electrical behavior.
Prereq: MAT 106 or equivalent or permission of instructor

For information on Advising Codes see inside back cover.
PHY 111 General Physics I with Calculus (NC)  4 cr
A calculus-based physics course intended primarily for those students who are preparing for careers in science, mathematics, or engineering. Includes kinematics, mechanics of particles and rigid bodies, and conservation laws. Heavy emphasis is placed on the use of concepts to solve problems. Lab required.
Prereq: MAT 201 concurrently, or permission of instructor

PHY 112 General Physics II with Calculus (NC)  4 cr
A calculus-based study of the laws of electricity and magnetism. Topics include properties of electricity and magnetism, fields, elementary electric current analysis, wave motion, electromagnetic waves. Lab required.
Prereq: PHY 111 or equivalent; Coreq: MAT 202, or permission of instructor.

POLITICAL SCIENCE

POL 101 American Politics (BC)  3 cr
American national government and politics. The principles, processes, and institutions which make up the American political system: constitutional framework; federalism; interest groups, parties, elections; Congress; the Presidency; the judicial system. Policy-making and contemporary problems.
Prereq: None

POL 103 Comparative Politics (BC)  3 cr
Comparative politics institutions and processes in Great Britain, France, Germany, and the U.S.S.R. Selective comparisons with non-European political systems.
Prereq: None

POL 105 International Politics (BC)  3 cr
Traditional principles of international relations and emerging new problems from a political perspective—population, environment, energy, natural resources, economic interdependence, rapid technological change. Provides a global context for dealing with new and developing international considerations.
Prereq: None

POL 203 American Civil Liberties (BC)  3 cr
Freedom of expression in history and in contemporary America; the role of the Supreme Court in the maintenance of civil liberties; the influence of official and popular pressures. Includes consideration of religion, assembly, the press and speech, as well as the rights of the accused and constitutional standards of equality.
Prereq: None

POL 205 American Foreign Policy* (BC)  3 cr
An introduction to America’s role in world affairs, especially since World War II. Attention is given to the underlying principles of American foreign relations; to the American foreign policy process; to the instruments of modern foreign policy; and to the contemporary foreign policy environment: Soviet-American relations, Western Europe, the Middle East, Africa, Latin America, and the Far East.
Prereq: None; Recom: POL 101

PSYCHOLOGY

PSY 101 Principles of Psychology (BC)  3 cr
Introduction to the study of human behavior. Considers such topics as perception, motivation, learning, personality development, and the dynamics of maladaptive behavior.
Prereq: None

PSY 209 Abnormal Psychology (BC)  3 cr
Dynamics and symptomatology consistent with major organic and no-organic based problem behaviors including psychoses, neuroses, personality disorder, retardation, and brain damage.
Prereq: PSY 101

PSY 213 Psychology of Interpersonal Behavior (BC)  3 cr
Interpersonal determinants of human behavior. Theoretical models by Adler, Horney, Fromm, and Berne. Major emphasis on Transactional analysis as developed by Berne.
Prereq: PSY 101

PSY 215 Theories of Personality (BC)  3 cr
An examination of the three major schools of psychology and their related personality theories. Psychoanalytic behavioristic and humanistic theory will be viewed through the works of Freud, Jung, Skinner, Rogers, and Maslow.
Prereq: PSY 101

PSY 217 Human Growth and Development (BC)  3 cr
A survey of human physical, psychological, and social development from birth through death. Framework for the study of the individual’s cumulative, integrative growth experience. Theories of development and their applications.
Prereq: PSY 101 or permission of instructor

PSY 221 Environmental Psychology (BC)  3 cr
Examines the relationship between built and natural environments and human behavior. Explores research methods, small group ecology, large group ecology, architectural design, social ecological design, future environments. Group projects and field trips required.
Prereq: PSY 101 or permission of instructor

PSY 223 Adult Development (BC)  3 cr
An exploration of the major issues in the adult life cycle (from late adolescence through old age) that shape the character of developmental change. Topics for investigation are: the sequence of transitions and psycho-social crises, the processes of identity change, adaptation to life events that precipitate change, and the metamorphosis of aging.
Prereq: PSY 101

PSY 225 Psychology of Women* (BC)  3 cr
An exploration into the behavior and personality of women as seen through their own eyes. Topics for investigation are: dispelling the myths and mysteries about the development of women, significant gender differences, the quest for a separate identity, transitional changes and adaptation, and the possibilities for a more generative view of the human life cycle.
Prereq: PSY 101 or SOC 101 or ANT 104 or permission of instructor
PSY 277 Psychology of Death and Dying *(BL) 3 cr
Designed to be both experiential and didactic, this course will
enhance students’ understanding of death and dying processes
both personally and professionally. Topics covered include
cultural attitudes toward death and dying, origins of death
anxiety, processes involved in dying, grieving and mourning,
children and death, the helping relationship and the
careriver, suicide, euthanasia, burial and cremation, organ
and body donations, and community resources.
Prereq: PSY 101

RECREATION AND LEISURE SERVICES

RLS 101 Introduction to Recreation and Leisure Services (A) 3 cr
Considers the growing field of recreation and leisure services,
including its history, philosophy and principles as well as its role
in contemporary and future society. Designed to help the
student to develop a personal leisure philosophy, the ability to articulate
important concepts, and create an awareness of the
career opportunities in the profession of recreation and leisure
services.
Prereq: None

RLS 103 Recreational Arts Programming (X) 3 cr
A survey course dealing with the methods, materials, content,
and theory of the arts: crafts, music, creative dramatics, and
dance. Concentration on rationale, leadership, attitudes,
values, and exposure. Credit will be granted for RLS 103 or EDU
103, but not for both. Field trips required.
Prereq: RLS, EDU, or ERS major or permission of instructor

RLS 104 Introduction to Elder Recreational Services I (X) 3 cr
This course is designed to provide students with the
philosophy and principles of the delivery of recreational services for
dependent elders. Includes an overview of the activity profession
and standards of practice. Course has been approved by the
National Certification Council for Activity Professionals. Successful completion of this course meets one of the basic
education requirements for certification as an activity consultant,
director, or assistant.
Prereq: None

RLS 105 Introduction to Elder Recreational Services II (X) 3 cr
Continuation of RLS 104. Emphasis on activity care planning
for quality of life and methods of service delivery in the activity
profession. Course is approved by the National Certification
Council for Activity Professionals. Successful completion of this
course meets one of the basic education requirements for
certification as an activity consultant, director, or assistant.
Prereq: RLS 104 or permission of instructor

RLS 109 Leisure Programming (X) 4 cr
A comprehensive process-oriented course covering
principles and methods of program development in the Recreation
and Leisure Services field. Development of leadership/teaching skills and techniques facilitating leisure behavior
theories of program development and provision of services. Field trips required.
Prereq: None

RLS 111 Introduction to Outdoor Recreation (X) 4 cr
The meaning and significance of outdoor recreation in contemporary society. Emphasizes planning, organizing, con
ducting, and evaluating programs and activities of outdoor recreation, outdoor education, and environmental education.
Special concern for practical activities and experiences in the
outdoors. Provides lab experiences, field trips, and leadership practice in the areas of nature-oriented activities,
sports, and environmental education. Field trips and outings in the Connecticut River Valley and Central New England. Field trips, including overnight camping trip, required.
Prereq: None

RLS 113 Leadership and Group Dynamics (X) 3 cr
Designed to develop the ability and skills to work with small
groups primarily in recreation and leisure settings and agencies. Enhancing capabilities of group leadership and group
membership are emphasized. The group process, leadership
techniques and styles, and theories of leadership are among
the key topics covered.
Prereq: None

RLS 119 Responding to Emergencies and Community CPR (X) 3 cr
A course based upon the American Red Cross "Responding to Emergencies" and "Community CPR" programs which focuses upon the information necessary for the development of the student’s knowledge of what to do in an emergency before medical help arrives. Successful completion of the course can lead to ARC certification in Responding to Emergencies and Community CPR.
Prereq: None

RLS 131 Introduction to Therapeutic Recreation (X) 3 cr
Designed to provide the student with a basic understanding of
the philosophy and principles of therapeutic recreation. Includes the theoretical rationale for the development of Thera
petic Recreation Services for such groups as physically handicapped, mentally ill, mentally retarded, the dependent
aging, and socially deviant. Offers practical guidelines for the
operation of such programs. Field trips required.
Prereq: None

RLS 163 Wellness for Life (X) 3 cr
Designed to enhance awareness and knowledge of wellness
issues. This course is geared toward the development and
implementation of lifestyle behaviors to encourage more
positive lifestyles and overall well-being. Possible topics may
include: lifestyle choices, stress management, nutrition, weight
control, physical activity, cardiovascular health, lifestyle
diseases, smoking, substance misuse, and sexually transmitted
diseases.
Prereq: None

For information on Advising Codes see inside back cover.
RLS 180 Functional Anatomy (NL) 3 cr
Students will gain a fundamental understanding of human anatomy via touch: self massage and palpitations of anatomical landmarks, i.e., bones, muscles, projections, and depressions. Students will learn by a hands-on, experiential focus of the human body in order to understand and utilize this information in a physical fitness field setting.
Prereq: None

RLS 200 Exercise Physiology (X) 3 cr
This course is designed to enhance the student's understanding of those aspects of anatomy and physiology that are most important to physical fitness and health. Study will focus on the structure and function of the cardiovascular, pulmonary, muscular, skeletal, and nervous systems and the role they play in physical performance.
Prereq: BIO 105 or RLS 180

RLS 205 Recreation Seminar (X) 3 cr
A seminar in contemporary trends and issues in recreation and leisure services—designed to encourage personal and professional growth. Includes particular emphasis on such subjects as self-assessment, the job search, the work environment and related understandings, leisure counseling, changing concepts in recreation, resource analysis, and new dimensions in recreation programming. Field trips required.
Prereq: RLS 101 and 109

RLS 207 Recreational Sports/Fitness Administration (X) 4 cr
Designed to develop programming and administrative competence in physical recreation/fitness/sports. Emphasis on organizing and conducting a comprehensive community sports program. Content includes: informal sport, club sport, competitive sport, guidance, supervision, planning, budgeting, marketing, public relations, risk management and liability, and evaluation. Field trips required.
Prereq: RLS major or permission of instructor

RLS 212 Inservice/Practicum in Physical Fitness I (X) 3 cr
Seminar, laboratory, and practical experiences to provide the opportunity to assess, plan, develop, implement, and evaluate various fitness programs in physical fitness settings. Basic preparation for the American College of Sports Medicine certifications.
Prereq: PFC major or permission of instructor

RLS 213 Inservice/Practicum in Physical Fitness II (X) 3 cr
A continuation of RLS 212. Advanced application of competencies necessary for leadership and planning. Advanced preparation for the American College of Sports Medicine certifications.
Prereq: RLS 212 or permission of instructor

RLS 214 Field Practicum in Elder Recreational Services (X) 3 cr
A 90-hour practicum for students currently working in the field as activity directors or activity assistants. Focus on comprehensive programming and documentation for dependent elders in long-term care of adult day care settings. Students meet individually with instructor who supervises a focused 90-hour practicum completed over a 15-week period. Course has been approved by the National Certification Council for Activ-

SCIENCE

SCI 103 Astronomy (NC) 4 cr
Topics to be covered include: the celestial sphere and the Copernican Revolution, stellar evolution, stellar observation and measurement, the H-R diagram, Novae, Pulsars, Black Holes and the Big Bang, relativity and the shape of the universe. Mathematics content will be minimal. Lab and evening observations required.
Prereq: None

SCI 104 Energy: Issues and Principles (NC) 3 cr
An energy course, covering both the technical and economic aspects, designed on a need-to-know basis primarily for the nonscience-oriented student who feels the need to be informed about this field of critical importance to the survival of modern civilization.
Prereq: None

SCI 106 Science Through the Ages (L) 3 cr
Landmark discoveries and the evolution of scientific thought are traced through the pages of history in an attempt to gain an understanding of how the major achievements in science have helped shape human destiny, and what promise and threat they may hold for the future. Areas of study include: Ancient Science, Middle Ages, the Renaissance, the Age of Newton, contributions from the 17th, 18th, 19th, and 20th centuries. The course presents an opportunity to learn about some major scientific concepts and discoveries in a historical context apart from their technical ngor.
Prereq: None
SCI 111 Survey of Science and Technology (NC) 3 cr
This course will provide students with an introduction to selected principles, concepts, and technological applications in physics, chemistry, and biology. Students will construct these concepts through laboratory activities and gain an understanding of their relevance and relationship to the world around them.
Prereq: None

SOCIOLOGY

SOC 101 Principles of Sociology* (BC) 3 cr
The study of society through basic concepts and scientific methodology. Examines culture, social systems, institutions, status, role, norms, interaction, deviance, small groups, and social stratifications.
Prereq: None

SOC 201 Social Problems and Deviant Behavior* (BC) 3 cr
Major types of deviant behavior in American society; description, theories of causation, and ramifications for the future.
Prereq: SOC 101

SOC 203 Sociology of the Family* (BC) 3 cr
Historical background and cross-cultural factors. Attention to the cycle of courtship, marriage, child rearing, and marital dissolution. Contemporary trends and the future of the family in society.
Prereq: SOC 101

SPANISH

SPA 101 Elementary Spanish I (HC) 4 cr
Fundamentals of Spanish. Acquisition of language functions, vocabulary, structures, and culture through contextualized presentations, interactive activities and extensive laboratory practice.
Prereq: None

SPA 102 Elementary Spanish II (HC) 4 cr
Fundamentals of Spanish. Continued acquisition of language functions, vocabulary, structures, and culture through contextualized presentations, interactive activities, and extensive laboratory practice.
Prereq: SPA 101 or equivalent, or one year of high school Spanish, or permission of instructor

SPA 111 Spanish Skills Practice (X) 2 cr
An intensive immersion workshop conducted in Spanish. For students who have completed at least SPA 101 or who are returning to the study of Spanish. Using the material studied in SPA 101, students will work to practice and internalize the basic building blocks of Spanish in listening, speaking, reading, and writing. Class time will be spent on pair and small group work, drill video, readings, and authentic materials.
Prereq: SPA 101 or equivalent or permission of instructor

SPA 201 Intermediate Spanish I (HC) 3 cr
Intermediate study of Spanish through immersion, emphasizing mastery of idioms and linguistic structures. Selected readings in Hispanic literature supplement the text. The class is conducted in Spanish.
Prereq: SPA 102 or equivalent, or permission of instructor

SPA 202 Intermediate Spanish II (HC) 3 cr
Conclusion of the intermediate study of Spanish through immersion. Advanced readings in Hispanic literature and a video program supplement the text. The class is conducted in Spanish.
Prereq: SPA 201 or equivalent, or permission of instructor

SPA 251 Spanish Composition and Conversation (HC) 3 cr
Development of advanced writing and speaking skills. Representative works of Hispanic literature, available periodicals, and films are the subjects of class discussion and oral and written assignments.
Prereq: SPA 202 or equivalent, or permission of instructor

SPA 252 Spanish Composition and Conversation II (HC) 3 cr
Continued development of advanced writing and speaking skills. Representative works of Hispanic literature, available cultural readings, and periodicals are the subjects of class discussion and oral and written assignments. The class is conducted in Spanish.
Prereq: SPA 251 or equivalent, or permission of instructor

SPEECH

SPE 101 Oral Communication: Public Speaking (SHL) 3 cr
Principles of oral communication, stressing the role of the speaker in the communication process. Emphasis will be on the proper preparation and delivery of speeches. The student will give two or three speeches and participate in a small group activity. Credit will be given for SPE 101 or SPE 121, but not for both.
Prereq: ENG 101, 103, or 105 or concurrent enrollment

SPE 121 Oral Communication: Small Group Discussion (HL) 3 cr
Principles of oral communication, stressing the role of the leader/participant in small group discussion. Emphasis will be on proper preparation for group learning, problem-solving and meeting management. Role playing exercises will be based on community and industrial models. Credit will be given for SPE 101 or SPE 121, but not for both.
Prereq: ENG 101, 103, or 105 or concurrent enrollment

SPE 203 Argumentation and Debate (HL) 3 cr
An introduction to the essential elements of debate with emphasis on preparation and presentation.
Prereq: SPE 101 or permission of instructor
THEATER

THE 103 Introduction to the Theater (HC) 3 cr
Play reading and analysis, drama criticism, theater history, forms of drama and process of play production studied with the aim of increasing appreciation of the theater and enjoyment of the dramatic experience. Participation in some aspect of the College’s current theatrical production is encouraged but not required.
Prereq: None

THE 105 Oral Interpretation of Literature (HL) 3 cr
Oral interpretation of the poem, essay, short story, and play; emphasis on literary analysis as the foundation of performance. Workshop method: small group preparation of individual selections.
Prereq: None

THE 113 Fundamentals of Acting (HL) 3 cr
An introduction to the art of acting with emphasis on characterization, voice, and movement, as well as varieties of acting techniques, script analysis, improvisation, and theater exercises will be used to prepare monologues, duet scenes and one-act plays. Additional emphasis explores the uses of acting to improve self-presentation and self-development.
Prereq: None

THE 115 Summer Theater Workshop (HL) 3 cr
Intensive training in theatrical production, rehearsal, and performance. Registration in advance required.
Prereq: Permission of instructor

THE 125 The American Musical Theater (HL) 3 cr
An examination of the development of the “musical comedy” from the early ’40s to the present. Representative examples from the works of major composers, lyricists, etc., are fundamental components of the course.
Prereq: None

THE 133 College Theater Workshop (HL) 1 cr/semester; maximum 4
Practical experiences in acting, house management, production, publicity, shop and production crews. No more than one credit may be earned in any given semester. Work on the major production for the semester is required.
Prereq: None

THE 207 Play Production (HL) 3 cr
Production of a full-scale play, including acting, directing, lighting, costuming, stage craft, make-up, publicity, box office, and performance.
Prereq: THE 113, THE 103 or 105, plus at least one credit in THE 133, or permission of instructor

THE 213 Advanced Acting (HL) 3 cr
The actor's use of improvisation, abstraction, and development of motivational devices in character through internalization and externalization techniques. Concentration on scene and character development through class performances.
Prereq: THE 113 or permission of instructor
Most applicants to Greenfield Community College have earned high school diplomas or General Education Development Test (GED) equivalents, but we do not require a diploma to attend most programs. If you do not have a diploma, please discuss your application with the Director of Admission. In some cases, testing may be required as part of the admission process. We do not require entrance examinations such as SATs or ACTs. We usually admit students to the programs of their choice, if space is available.

If you are applying to the Registered Nursing (RN) Program, you must have completed college preparatory high school chemistry or college chemistry and other science courses with a grade of "C+" or better within five years. If you are applying to the Practical Nursing (LPN) Program, you need to take the Psychological Corporation Practical Nursing Entrance Examination.

Several other academic programs limit their enrollment or have special requirements. All are noted in their program descriptions. If you have questions, ask one of our admission representatives.
To Apply

1. Obtain an admission application from our Admission Office, or from your high school guidance office.

2. Return the completed application form, along with your non-refundable application fee, to the Admission Office, Greenfield Community College, One College Drive, Greenfield, MA 01301. Please make checks payable to Greenfield Community College. (Note: You may apply to three Massachusetts community colleges for one application fee. When an application fee has been paid to another Massachusetts community college, please indicate which one, and ask that college to send verification of payment to our Admission Office.)

The application fee is $10 for Massachusetts residents and $35 for out-of-state and international students. If you are unable to afford this, please contact the Director of Admission to discuss the situation.

3. Request that any schools which you have attended previously, including high school, college, or other post-secondary institutions, send official transcripts of your academic record to the Admission Office.

4. Contact the Admission Office to arrange a personal interview if you wish to discuss your major and career plans. We are located on the second floor in the Student Services suite in the building’s main core. Extension 233.

5. If you are applying for re-admission to GCC, you should file a Petition for Reinstatement with the Admission Office. There is no fee for re-admission to the college.

International Students

We welcome international students at Greenfield Community College. We do not provide housing on campus, but our Student Life Office is willing to assist you in finding suitable housing in the community. We are also unable to offer financial assistance under any federally-funded financial aid program. Therefore, international students should have ample financial resources to meet their college expenses.

*Estimated Expenses*

*for International Students Per Academic Year*

<table>
<thead>
<tr>
<th></th>
<th>$</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tuition and fees</td>
<td>$5,610</td>
</tr>
<tr>
<td>Room and board (food)</td>
<td>6,673</td>
</tr>
<tr>
<td>Books and supplies</td>
<td>550</td>
</tr>
<tr>
<td>Medical care and insurance</td>
<td>450</td>
</tr>
<tr>
<td>Personal expenses</td>
<td>1,867</td>
</tr>
<tr>
<td>Transportation (after arrival in U.S.)</td>
<td>1,600</td>
</tr>
<tr>
<td><strong>Total Expenses</strong></td>
<td><strong>$16,750</strong></td>
</tr>
</tbody>
</table>

These costs reflect the tuition-and-fee schedule for the 1994-95 school year, based on 15 credit hours per semester. All costs are subject to change and may vary for each student.
If you are an international student, you should submit your completed application to the Admission Office at least six months prior to the time you plan to attend. We recommend that you contact our Director of Admission as soon as possible to ensure that all necessary requirements have been met in sufficient time. Along with your completed application, please send the following documents to our Admission Office:

- Official academic transcripts for all high schools and colleges attended
- Medical Examination Record
- Certification of Finances
- Results of Test of English as a Foreign Language (TOEFL). (A minimum score of 550 is required for admission.)

**English as a Foreign Language**

If English is not your native language, whether you are a U.S. citizen or an international student, we require you to take a standardized placement exam. If you demonstrate proficiency in English by your score on this exam, you will not be required to take coursework in English as a Foreign Language (EFL). But if your placement score indicates a need for further English language study, we require you to enroll in EFL classes at the appropriate level and limit your enrollment in other classes as well.

**Veterans**

If you are a veteran of the United States armed services, or if you are a dependent of a deceased or disabled veteran, you may be eligible for federal veterans' educational assistance benefits. For additional information, contact our Veterans Affairs Coordinator in the Financial Aid Suite on the second floor. Extension 230.

In addition, the Commonwealth of Massachusetts provides tuition exemptions at public colleges and universities for several eligible veteran classifications including Vietnam-era, Lebanese peace-keeping force, Grenada rescue mission, Panamanian intervention force, the Persian Gulf, Somalian mission known as "Operation Restore Hope," and current members of the active armed services stationed and residing in Massachusetts who meet the other requirements. Each classification carries specific dates of service. Members of the Massachusetts National Guard may also be eligible for tuition assistance. Those seeking to use a tuition waiver for any of these classifications must confer with our Veterans Affairs Coordinator before enrollment.

**New England Regional Student Program**

Through the New England Board of Higher Education (NEBHE), Massachusetts participates in the Regional Student Program (RSP), which enables students from one New England state to attend public colleges or universities in another New England state at tuition rates below those normally charged to out-of-state students. Eligible New England students who reside outside of Massachusetts currently pay 150 percent of the tuition charged Massachusetts residents. This is a substantial saving compared to the standard non-resident tuition. To qualify, you must be a resident of one of the five other New England states and be pursuing a degree program that is not offered at a two-year community college in your home state or is offered at a Massachusetts community college that is closer to your home. For more information, please contact our Admission Office.
Joint Admission Plan with the University of Massachusetts at Amherst

Greenfield Community College participates in a Joint Admission Plan with the University of Massachusetts at Amherst. The program guarantees participating students admission to the University school or college of their choice, provided they graduate from a comparable transfer program at Greenfield with a cumulative grade point average of 2.50 or higher. Participating students are subject to the program requirements in effect at the University when they matriculate at Greenfield and must earn their associate degree at Greenfield within five years of matriculation.

Joint Admission Plan with North Adams State College

This joint admission program guarantees students admission to North Adams State upon successful completion of their academic requirements at GCC. Students who matriculate in a transfer program at GCC may choose at the time of admission to jointly enroll at North Adams State under the stipulation they complete their associate's degree within five years with at least a 2.0 cumulative grade point average. Participating students will be able to fulfill requirements in North Adams State majors while attending classes at GCC.

Historically Black Colleges and Universities

Students may choose to participate in a dual admission program with six Historically Black Colleges and Universities by applying to one of the six after being accepted at GCC. Upon successful completion of their associate degree at GCC, students become members of the junior class of the Historically Black College or University to which they have applied when they plan to continue toward their baccalaureate degree. The six institutions are:

- Cheyney University of Pennsylvania
- Delaware State College
- Florida Agricultural and Mechanical University
- Hampton University
- Howard University
- Tuskegee University
Commonwealth Transfer Compact

The Commonwealth Transfer Compact was created for the purpose of facilitating transfer of students graduating from Massachusetts community colleges to the state's public baccalaureate degree-awarding colleges and universities without the loss of academic credit or standing.

To qualify for the Transfer Compact, you must:

1. be accepted for transfer admission by one of the state-supported universities or baccalaureate degree-awarding public colleges in Massachusetts;
2. earn an associate degree from one of the Massachusetts regional community colleges (minimum of 60 credits) with the following distribution:
   - 6 credits of English composition/writing (E advising codes)
   - 9 credits of behavioral/social sciences (BC advising codes)
   - 8 credits of natural/physical sciences (two 4-credit lab science courses with NC advising codes)
   - 3 credits of mathematics (NC advising codes)
   - 9 credits of humanities/fine arts (HC advising codes)
   - 25 remaining credits of other college-level work (excluding D advising codes)

Getting Credit Where It's Due

You may qualify for advanced placement and credit in specific courses based on your performance on College Board Advanced Placement Examinations given to high school seniors. Previous educational experiences, including courses completed at other accredited or recognized institutions of higher education, may also enable you to gain college credit even before taking courses at GCC.

You may receive college credit for:

- satisfactory performance on selected College Board Advanced Placement Examinations
- satisfactory performance on selected College Level Examination Program (CLEP) examinations
- demonstrated competence on GCC challenge examinations (for which we charge $20)
- unique life and work experiences that lend themselves to evaluation
- coursework completed in the military through recognized educational programs

General Education Development Test (GED)

The GED provides an opportunity for students who have not received a high school diploma to earn a high school equivalency diploma. We conduct GED testing regularly. For more information about the GED program, please contact our GED Testing Center in the Student Services Suite on the second floor. Extension 228.
Tech-Prep

Greenfield Community College is a member of Tech-Prep West, a consortium of eight vocational technical schools and three community colleges in western Massachusetts. The purpose of the consortium is to coordinate curricula between vocational schools and community colleges to eliminate duplication and to streamline education for the changing technologies.

We have developed articulation agreements in computer information systems and early childhood education with Franklin County Technical School in Turners Falls and an agreement in computer information systems with Smith Agricultural Technical School in Northampton. The agreements allow students to earn college credit for competencies they have developed while at the vocational technical high school.

Additional agreements are continuously being developed. If you are entering GCC from a vocational technical school check with your guidance counselor for details regarding articulation agreements.

To learn more about admission, advanced credit or other admission-related issues, see the Director of Admission.
Tuition cost is based on your official permanent residence, and Massachusetts residents pay the lowest tuition. Students from other New England states who qualify for the Regional Student Program of the New England Board of Higher Education (NEBHE) (see page 100) currently pay 150 percent of the Massachusetts resident tuition. All other non-Massachusetts residents pay the highest tuition. Current tuition rates, which are subject to change without advance notice by the Massachusetts legislature and the Higher Education Coordinating Council, are as follows:

<table>
<thead>
<tr>
<th></th>
<th>Per credit</th>
<th>Full-time (12 credits)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Massachusetts residents</td>
<td>$38</td>
<td>$456</td>
</tr>
<tr>
<td>Qualified NEBHE students</td>
<td>$57</td>
<td>$684</td>
</tr>
<tr>
<td>Non-Massachusetts residents</td>
<td>$188</td>
<td>$2256</td>
</tr>
</tbody>
</table>
Fees

Registration
We charge all students a non-refundable registration fee of $20 per semester.

College Services
The non-refundable college services fee is $40 per credit per semester. This fee helps to pay the costs of classroom and laboratory instructional materials, among other expenses involved in providing services to students.

Health Services
All full and part-time students pay an $9 per semester health services fee.

Student Activities
We charge a non-refundable student activities fee of $20 per semester for students enrolled in fewer than 12 credits of coursework and $40 per semester for students enrolled in 12 or more credits of coursework. This fee supports a wide range of student activities, including concerts, movies, dances, clubs, theater and music productions, and athletics. In addition, the fee entitles you to a copy of our Student Handbook and a student identification card.

Late Registration
A non-refundable late registration fee of $10 is charged for registering for classes after the semester begins.

<table>
<thead>
<tr>
<th>Total fees (12 credits)</th>
<th>$549 per semester</th>
</tr>
</thead>
</table>

All fees are subject to change without notice.
Insurance

Health and Accident

We require all full-time students to carry basic health and accident insurance. If you are not covered by another policy, we provide a basic policy which you purchase when you pay your tuition and fees. You may purchase several options to the policy, including coverage for a spouse and dependent children. The cost is about $450 per year, $300 from January to August.

Liability

We require all Nursing Program students to carry professional liability insurance approved by the college.

Estimated Annual Expenses

The cost of attending GCC involves several types of expenses that will vary depending on your individual circumstances. In general, though, your total expenses will include tuition and fees, books and supplies, room and board, transportation, and personal expenses (such as clothing, laundry, and recreation).

<table>
<thead>
<tr>
<th></th>
<th>Living with Parents</th>
<th>Living Off-Campus</th>
</tr>
</thead>
<tbody>
<tr>
<td>Books and Supplies</td>
<td>$ 550</td>
<td>$ 550</td>
</tr>
<tr>
<td>Room</td>
<td>797</td>
<td>4520</td>
</tr>
<tr>
<td>Board</td>
<td>2153</td>
<td>2153</td>
</tr>
<tr>
<td>Transportation</td>
<td>1030</td>
<td>1030</td>
</tr>
<tr>
<td>Personal</td>
<td>1351</td>
<td>1867</td>
</tr>
<tr>
<td><strong>TOTAL EXPENSES</strong></td>
<td><strong>$5881</strong></td>
<td><strong>$10,120</strong></td>
</tr>
</tbody>
</table>

Are You a Full-Time or Part-Time Student?

We consider you a full-time student if you are registered for at least 12 credits of graded coursework per semester. If you are registered for fewer than 12 credits, we consider you a part-time student. Your full-time or part-time status may affect your eligibility for such programs as health insurance and financial aid.

Are You an In-State or Out-Of-State Resident?

We consider you an in-state resident if you are a U.S. citizen or permanent resident, have established a residence in Massachusetts, and maintained continuous residence in Massachusetts for at least six months immediately prior to the date of your application.

Housing/Transportation

GCC does not have dormitory facilities, but our Student Life Office provides assistance in locating housing in the community, including an information booklet and a bulletin board for notices about housing. Extension 267.

Ample, well-lit parking is available free of charge. The Greenfield/Montague Transportation Authority and the Franklin Regional Transit Authority provide regular bus service to campus from the greater Greenfield area.
Paying Your Bill

We require payment for tuition and fees approximately three weeks before classes begin each semester. We recommend that you pay your bill by mail, and make your check, bank check, or money order payable to Greenfield Community College. We also accept payment by MasterCard and Visa. Please do not send cash. You may also pay your bill in person at our Business Office on the fourth floor of the college.

If you have not paid your bill in full by the date that it is due, your schedule may be cancelled. In addition, any outstanding financial or property obligation to the college will prevent you from registering for a subsequent semester, receiving grade reports, sending official transcripts, and receiving any other services offered by the college. If your bill remains excessively overdue, we may forward it to a collection agency, which will cost you an additional fee for collection.

Financial Aid from Private Sources

If you received a financial aid award from an off-campus group or individual, please provide our Financial Aid Office with official certification and complete terms of the award as early as possible.

Refunds

We refund tuition and fees only if you provide written notice that you will not attend, or submit a completed withdrawal or drop/add form to our Registrar's Office, according to the following schedule:

<table>
<thead>
<tr>
<th>Time Period</th>
<th>Percent Refunded</th>
</tr>
</thead>
<tbody>
<tr>
<td>Before classes begins</td>
<td>100% of tuition and fees, except for $20 registration fee</td>
</tr>
<tr>
<td>During the first 10 class days of semester</td>
<td>75% of tuition only</td>
</tr>
<tr>
<td>After the tenth class day of the semester</td>
<td>0%</td>
</tr>
</tbody>
</table>

Pro-Rata Refund Policy

Students in their first semester who are receiving Title IV aid are eligible for a pro-rata refund on tuition and fees if they withdraw from the college prior to the tenth week of classes. Copies of the Pro-Rata Refund Policy are available in the Business Office (fourth floor, extension 248), Records Office (second floor, extension 234), or the Financial Aid Office (second floor, extension 229).

For questions about tuition and fees, call extension 233.
In an effort to enable all qualified students to attend GCC regardless of their financial situation, we offer assistance to students with demonstrated financial need. Our Financial Aid Office can help you with a combination of three general types of financial assistance:

- Grants and scholarships from federal, state and local sources, which you do not repay;
- Loans backed by federal, state or private sources, which you must repay, usually at long-term, low-interest rates; and
- College work-study, which provides you with a job during the summer or the school year, either on- or off-campus.

The Financial Aid Office is located on the second floor core. Extension 229.

All programs are subject to changes in regulations and procedures.
What Kind of Financial Aid is Available?

We participate in all major federal and state financial aid programs, including:

Grant and Scholarship Programs

The Federal Pell Grant Program provides grants to students with exceptional financial need. To apply, use a Free Application for Federal Student Aid. You can find this form at our Financial Aid Office or at your high school guidance office.

The Federal Supplemental Educational Opportunity Grant (SEOG) Program is a federally-funded, campus-based program that provides grants for exceptionally needy students, based on the student’s financial resources, the cost of education, and the funds available to the college. To apply, you must submit a Free Application for Federal Student Aid. You can find this form at our Financial Aid Office or at your high school guidance office.

The Massachusetts State Scholarship Program offers scholarships to needy students who have been Massachusetts residents for one year prior to September enrollment. To apply, you must submit the Free Application for Federal Student Aid by May 1 of the year in which the school year begins. These forms are available at high school guidance offices or our Financial Aid Office.

The Massachusetts Tuition Waiver Program supplements other aid programs available through GCC by providing tuition waivers to students with demonstrated financial need. To apply, you must submit a Free Application for Federal Student Aid. You can find this form at our Financial Aid Office or at high school guidance offices.

Federal Family Educational Loan Programs

The Federal Perkins Student Loan Program enables GCC to make low-interest, deferred-payment loans to students with demonstrated financial need. Borrowers begin repayment after they graduate or complete their studies at the college. To apply, you must submit a Free Application for Federal Student Aid. This form is available at our Financial Aid Office or at high school guidance offices.

The Nursing Student Loan Program uses state and federal funds to provide low-interest, deferred-payment loans to Nursing Program students with demonstrated financial need. To apply, you must submit a Financial Aid Form (FAF) to the College Scholarship Service. You can find this form at our Financial Aid Office or at high school guidance offices.

The Federal Stafford Student Loan Program enables students with financial need to obtain low-interest, deferred-payment loans through banks or other lending agencies. In Massachusetts, we call this program the Higher Education Loan Program (HELP), administered by the American Student Assistance. To apply, you must submit a Free Application for Federal Student Aid. This form is available at our Financial Aid Office or at high school guidance offices.

If you have received a scholarship from an off-campus group or individual, please provide the Financial Aid Office with official certification and complete terms of the award as early as possible.
Federal Work Program

The College Work-Study Program uses state and federal funds to offer part-time on-campus and off-campus jobs to students with demonstrated financial need. The program enables students to earn money while gaining job experience. To apply, contact our Financial Aid Office.

How Do I Apply For Financial Aid?

To be eligible for financial aid, you must:

• be enrolled in the college in a degree or certificate program. Pell Grant amounts vary, depending on whether you are enrolled full-time (12 credits or more), three-quarter time (9-11 credits), half-time (6-8 credits), or less than half-time (5 credits or less); and

• provide information about you and your family’s financial background, as follows:

  1. A Free Application for Federal Student Aid (FAFSA) is available from your high school guidance office or from our Financial Aid Office. When you complete your FAFSA, please make a copy for yourself before mailing the form.

  2. Student Aid Reports (SAR) from the Pell Grant Program are mailed directly to students from the Pell Grant processor. You must submit your SAR forms to our Financial Aid Office. You must also complete a FAFSA which is available at your local high school guidance office or at our Financial Aid Office.
3. Verification of all income, which includes a copy of your federal income tax forms for the calendar year prior to enrollment. You must also submit verification of untaxed income such as Social Security or welfare benefits to our Financial Aid Office. If you are a dependent student, we require verification of your parents’ or guardian’s income as well.

4. Submit all necessary documentation to our Financial Aid Office by March 1 to be sure we receive it by April 15 in the spring before the school year begins. Processing of the FAFSA takes about four weeks. We attempt to notify students about financial aid decisions by early June on a rolling basis.

We will not process your Federal Stafford Student Loan application until you have completed the financial aid application process.

If we award you financial aid, your college charges will be paid by the middle of each semester. If your award includes work-study, you will receive a biweekly paycheck based on the hours you have worked during the previous pay period. You should plan accordingly to ensure that you have sufficient funds to support you until you receive your award.

To remain eligible for financial aid, you must maintain satisfactory academic progress, which means you may not be placed on academic probation or suspension, and you must earn a minimum number of credits during each semester you attend GCC, based on your enrollment status in each semester.
When you are admitted to GCC, we normally expect that you will undertake an organized program of courses that will enable you to earn a certificate or an associate degree. You may also want to take credit or credit-free courses during the day or the evening to enhance your occupational skills or enrich your personal life, without pursuing a degree or certificate. If you are a high school student, you may be eligible to take credit courses that will help fulfill your high school graduation requirements while earning credit toward a college degree. To do so, you will need the written approval of your principal.
Academic Advising

A faculty member will serve as your academic advisor throughout your time at GCC. While an advisor is assigned to you initially, you may change advisors at any time, and the Registrar's Office will assist you with this change. You should maintain close contact with your advisor, as he or she will provide guidance in selecting courses and making career plans. Obtaining good advice early can help you to avoid problems later. You may also find assistance with academic and other issues through the Learning Assistance Center (fourth floor, extension 221. See page 59). It is important to inform your advisor of anything which may affect your studies.

If you are planning to transfer to a baccalaureate degree-awarding college, you should also talk to our Transfer Coordinator at your earliest convenience (see page 122).

Placement Testing

All students who matriculate in a degree or certificate program or who plan to enroll in selected English or mathematics courses are required to take placement tests before enrolling in courses. These tests assess reading-writing and mathematics skills. The purpose of the tests is to enable a student and an advisor to select initial courses that match each student's skill level. The only exceptions to required testing are made for:

- students who can demonstrate that they have successfully completed college work in English composition and mathematics, or
- non-matriculated students who are taking courses for personal enrichment.

Developmental Courses

Courses with advising codes of "D" emphasize the improvement of basic reading, writing, mathematical, and study skills and may not be used to fulfill associate degree requirements. Grades earned for these courses will not be used in calculating your grade point average.

Changes of Major

As a normal part of your development and study, your academic and career goals may change. When considering a change of major, you should first consult with your advisor. You should then obtain the approval of the appropriate associate dean and submit a change of major form to the Registrar's Office. Some programs may not accept new students for the spring semester.

Credit Cap

You cannot take a course load of more than 18 credits except with the approval of your advisor and your advisor's associate dean, and provided that you are in good academic standing.

Adding a Course

You may add a course through the first week of the semester with the approval of your advisor. You may add courses after this time only with the approval of the instructor, the appropriate associate dean, and the Dean of Academic Affairs, in addition to the approval of your advisor. You must use a drop/add form to add courses, and the form must be submitted to and processed by the Registrar's Office before the change becomes official.
Dropping a Course

You may drop a course through the first two-thirds of the semester. If you drop a course during the first third of the semester, no record of it will appear on your record. If you drop a course during the second third of the semester, you will receive a grade of “W”. We will not process an official withdrawal from a course during the last third of the semester, and if you stop attending class, you will receive a grade for the course assigned by the instructor. If you want to drop a course, you should consult with your advisor, and you must complete a drop/add form and submit it to the Registrar’s Office for processing before the change becomes official. If you simply stop attending class or only tell your instructor that you are dropping the course, the change will not occur and you may jeopardize your eligibility for tuition refunds, financial aid, and future enrollment at the college. If extraordinary circumstances force you to consider dropping a course during the last third of the semester, you may discuss with the Dean of Academic Affairs the possibility of making an exception to the policy.

Repeating a Course

You may repeat any course, but you may not earn credit twice for the same course. When you repeat a course, your latest grade replaces the previous grade in the calculation of your grade point average.

You may substitute options available under English Composition I (ENG 101, 103, 105) for each other when you repeat English Composition I. Similarly, you may substitute options available under English Composition II (ENG 112, 114, 116) for each other when you repeat English Composition II.

Attendance

We expect you to attend class regularly. Absences may jeopardize your academic status and lower your grades. Individual instructors and program coordinators have the authority to establish attendance standards appropriate for their courses, and they should inform you in writing of those standards at the beginning of the course.
Religious Absences
We recognize that your religious beliefs may occasionally cause you to miss class or other college activities, and that you should not be penalized academically as a result of those absences. Under Massachusetts state law, you are excused from class on a particular day when it conflicts with your religious beliefs. Your professor must provide you with the opportunity to make up a missed examination or class work, provided that such makeup examinations or work do not create an unreasonable burden on the college.

Grading
We will mail a grade report to you at the end of each semester. In addition, in the middle of each semester we will mail preliminary reports of academic deficiency to you for each course in which you are earning grades of "D," "F," or "O". In our grading system, plus and minus symbols may be used only for grades of "B" and "C," while a minus symbol may be used for the grade of "A." Listed below are the grading symbols that we use.

<table>
<thead>
<tr>
<th>Grade</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>Excellent</td>
</tr>
<tr>
<td>B</td>
<td>Good</td>
</tr>
<tr>
<td>C</td>
<td>Satisfactory</td>
</tr>
<tr>
<td>D</td>
<td>Poor</td>
</tr>
<tr>
<td>F</td>
<td>Failing</td>
</tr>
</tbody>
</table>

IN Incomplete: indicates work of acceptable quality where the student has failed to complete course requirements and the instructor wishes to allow time for the completion of the work. The "IN" must be removed within four weeks of the beginning of the next semester or it is replaced by an "F" or "NC" (for courses graded CR/NC).

W Withdrawn: indicates that a student has withdrawn officially from a course or from the college. Withdrawal from the college requires the submission of a completed withdrawal form and fulfillment of all financial and property obligations to the college.

AW Administratively Withdrawn: indicates that a student has been administratively withdrawn for failure to fulfill financial or property obligations to the college. Once a student has been administratively withdrawn, he or she may not be reinstated during that semester.

AU Audit (not registered for credit or a grade): Audit may be selected at the time of registration. Changes to or from an audit status are treated as adding a course and must be processed prior to the end of the add period at the beginning of the semester.

CR Credit
NC No Credit (credit/no credit option): Students may elect to take one course each semester on a CR/NC basis, in addition to courses normally graded CR/NC, provided that at least nine credits of coursework are taken on a graded (A, B, C, D, F) basis. Students must perform work of "C" quality or better to earn credit (CR). This option must be selected at the time of registration. Courses taken on a CR/NC basis often are not transferable to other institutions.

NG No Grade Submitted is assigned temporarily by the Registrar to indicate that no grade was received from the instructor.

O Insufficient Basis for Evaluation: indicates that the student discontinued attendance in the class without formally withdrawing from the class or the college prior to the final withdrawal date. The "O" grade will be treated as an "F" in the calculation of the grade point average.
Grade Point Average

At the end of each semester or after any grade change, we calculate your semester and cumulative grade point averages. These averages provide a general indication of the quality of your academic performance, based on one semester and on all of the courses that you have taken.

To calculate a grade point average (GPA), we convert all letter grades to numbers, which we call grade points, as follows:

\[
\begin{align*}
B+ &= 3.35 & C+ &= 2.35 & D &= 1.00 \\
A &= 4.00 & B &= 3.00 & F &= 0.00 \\
A- &= 3.65 & B- &= 2.65 & O &= 0.00
\end{align*}
\]

Once the letter grades have been converted to grade points, we multiply the grade points by the number of credits for each course, resulting in what we call quality points. We then total all of the quality points and divide the sum by the total number of credits, resulting in the grade point average. In calculating a grade point average, we use only the grades listed above with corresponding grade points. No other grades affect the grade point average in any way.

Dean’s List

The Dean’s List recognizes matriculated students with superior academic achievement for a given semester. To be included on the Dean’s List, you must have:

1. earned at least 12 credits at GCC;
2. earned at least 6 graded credits in the semester;
3. no incomplete grades;
4. no grade less than a "C" in the semester;
5. achieved a semester GPA of at least 3.50 at the semester's end; and
6. achieved a cumulative GPA of at least 2.00 at the end of the semester.

**Academic Standing**

We place prime importance on your academic success. We base our academic standing decisions on our desire to assure both the college’s academic integrity and your achievement within prescribed standards. The categories of academic standings are as follows:

<table>
<thead>
<tr>
<th>Category</th>
<th>Standard</th>
<th>Actions Taken</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Normal Progress</strong></td>
<td>Both a cumulative GPA and a semester GPA of 2.00 or above</td>
<td>None.</td>
</tr>
<tr>
<td><strong>Academic Review</strong></td>
<td>Either a cumulative GPA or a semester GPA under 2.00 or both, and not previously on review.</td>
<td>Placed on Academic Review. Reduction of academic load and/or co-curricular activities expected. Diagnostic interview in Learning Assistance Center required.</td>
</tr>
<tr>
<td><strong>Academic Probation</strong></td>
<td>Both a cumulative GPA and a semester GPA for the current semester under 2.00 and student on review for one semester.</td>
<td>Placed on Academic Probation. NOT ELIGIBLE FOR FINANCIAL AID. Other actions same as Review.</td>
</tr>
<tr>
<td><strong>Academic Suspension</strong></td>
<td>Both a cumulative GPA and a semester GPA under 2.00 and a cumulative GPA lower than the previous semester.</td>
<td>Precluded from enrollment for one full semester; otherwise placed on Probation.</td>
</tr>
<tr>
<td><strong>Academic Dismissal</strong></td>
<td>Both a cumulative GPA and a semester GPA under 2.00 and a cumulative GPA lower than the previous semester and previously suspended.</td>
<td>Precluded from future enrollment.</td>
</tr>
</tbody>
</table>

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Note: For financial aid purposes, Probation, Suspension, and Dismissal constitute “unsatisfactory academic progress.”

We recognize that any of the academic standing actions described above may be affected by unusual circumstances. You may request that the Dean of Academic Affairs review your individual circumstances to determine if they warrant additional action.
Withdrawal from the College

You may withdraw from the college any time during the first two-thirds of the semester. If you withdraw during the first third of the semester, no record of the courses in which you were enrolled will appear on your record. If you withdraw during the second third of the semester, you will receive grades of "W" for all courses in which you were enrolled. We will not process an official withdrawal during the last third of the semester and if you stop attending classes you will receive grades assigned by the instructor for all courses.

If you find it necessary to consider withdrawing from GCC, you should consult with your advisor and your instructors first. To withdraw officially, you must submit a completed withdrawal form to the Registrar’s Office and fulfill all of your financial obligations to the college, and return any books and/or equipment belonging to the college. As with dropping a course, if you simply stop attending class or if you only tell your instructors that you are withdrawing, the withdrawal will not become official and you may jeopardize your eligibility for tuition refunds, financial aid, and future enrollment at GCC.

If extraordinary circumstances force you to consider withdrawal during the last third of the semester, you may discuss with the Dean of Academic Affairs the possibility of making an exception to the policy.

Medical Withdrawal

If you need to withdraw from the college for health reasons, you may request a medical withdrawal by discussing your situation with the Director of Health Services. A medical withdrawal requires the recommendation of the Director of Health Services and the approval of the Dean of Academic Affairs, who may also consult with counselors or others as appropriate.

Administrative Withdrawal

Administrative withdrawal is the result of action taken by the college when a student fails to fulfill financial or property obligations to the college during the semester. Once a student has been administratively withdrawn, the student may not be reinstated during that semester.

New Start Policy

If you have not attended GCC for more than two academic years and you were on probation, suspension or dismissal at the time that you discontinued your attendance, you may be re-admitted to the college on academic review for the first semester of your return. Normal academic progress standards will apply thereafter. Such readmission will be at the discretion of the Dean of Academic Affairs.
Fresh Start Option

Greenfield Community College has a "fresh start" option for students. Once in a lifetime, if you return to Greenfield after being away for at least two consecutive years, you can elect the "fresh start" option. Your grade point average (GPA) will be calculated only from the point you are re-admitted for the purposes of the college's academic standing policy. Your previous coursework may be applied toward your degree under this policy, but will not be calculated in your GPA. Your official transcript will include a statement explaining this "fresh start" option. In the event of multiple two-year absences, you have the option of choosing the effective readmission date of the policy. You must elect this option in person in the Registrar's Office.

Graduation Requirements

To earn an associate degree, you must complete the course requirements of the curriculum, achieve a cumulative grade point average of at least 2.00 for all courses taken at GCC (excluding courses with an advising code of "D") and be in good standing with the college. All associate degree programs require at least 60 credits of coursework. You must complete at least 15 credits of coursework at GCC.

If you wish to earn an additional associate degree, you must:

a. meet all specific requirements of each degree program,

b. complete at least 15 credits of coursework beyond the previous degree awarded; and

c. of those 15 additional credits, at least 12 must be completed at GCC.

You normally must fulfill the requirements stipulated in the catalog at the time you matriculate. If the requirements change after you have matriculated, you may elect to fulfill them or the requirements that were in effect when you enrolled.

To graduate "with honors" you must earn a cumulative grade point average of at least 3.50 based on at least 30 credits of letter-graded coursework completed at GCC.
Application for Graduation

To be considered for graduation, you must submit a graduation application to the Student Life Office by mid-February. Graduation applications are available in the Registrar's Office beginning in November. We formally award degrees only once each year, following the close of the spring semester.

Transcripts

You may request transcripts of your GCC academic record for yourself or for other colleges or employers by completing a transcript request form in the Student Records Office. You also may request a transcript by writing a letter in which you clearly identify yourself and where you would like a transcript to be sent. We cannot accept telephone requests. We provide you with one free transcript and charge $2 for each subsequent transcript. Please allow at least one day to process your request.

Petition to Review Academic Record

If you are currently enrolled, you may petition the Transcript Review Committee to review your academic record for the purpose of seeking relief from past poor academic performance. The Transcript Review Committee requires that you either have completed at least 12 credits of coursework since the semester for which you seek relief before you submit your petition or you have completed 6 credits of coursework and you include two letters from current instructors with your petition. Petition forms are available in the Registrar's Office.

Waiver of Academic Policy

If you think that unusual or extenuating circumstances justify an exemption from an academic policy, requirement or regulation, you may request a waiver using an appropriate form obtained in the Registrar's Office. Your request should be initialed by your advisor and you must gain the approval of the appropriate program coordinator, associate dean, and the Dean of Academic Affairs. Your request will be considered on its individual merit.

The Family Educational Rights and Privacy Act of 1974

You have certain rights to privacy about the information that we maintain about you. For more information, including a full text of the regulations regarding your records and your right to privacy, please consult your Student Handbook or the Registrar's Office.
Office of Diversity

Greenfield Community College has had a policy of non-discrimination for many years. The Office of Diversity was created to help attract and retain a culturally diverse college community. The college wishes to increase its representation of underrepresented students, faculty and staff, and improve the general climate of comfort and acceptance experienced by individuals who are not among the dominant campus majority.

For GCC to be a place of comfort to all, it must be pluralistic not only in words but also in deeds. The Office of Diversity is responsible for overseeing and coordinating all of the college’s efforts to meet its objective of providing equality of opportunity for everyone.

The college’s curriculum contains courses which will meet the University of Massachusetts cultural diversity requirement. These courses are noted with an asterisk in the course descriptions section of the catalog.

Sexual Harassment

We consider the sexual harassment of a student, an employee, or any other person in the college to be intolerable and impermissible. Individuals who believe they have been the subject of sexual harassment should consult with the Affirmative Action Officer to obtain counseling concerning their rights under the law and effective means of resolving grievances. The Community Colleges of Massachusetts Affirmative Action Plan is available in the college library, and from the Affirmative Action Officer. Extension 238.

Affirmative Action

Affirmative action and equal opportunity shall apply to all segments of the college. Any person who believes he or she has been the subject of discrimination should consult with the Affirmative Action Officer of the college. Extension 238.
In addition to our academic programs, we offer a wide range of services and activities to enhance your classroom experience. We encourage you to take advantage of these services and to become an active member of the college community.

Transfer Coordinator
About one-half of our graduates go on to baccalaureate degree-awarding colleges and universities, and most of these students use the services of our Transfer Coordinator (second floor core, extension 273). If you are considering transfer, we strongly encourage you to see the Transfer Coordinator at your earliest convenience. He can help you choose the school that best suits your academic goals and needs and advise you on transfer procedures and deadlines.
The Transfer Coordinator has a library of catalogs of baccalaureate degree-awarding colleges and universities, and students have the opportunity to meet with representatives from more than 100 colleges and universities at our annual College Fair held each fall. We have a number of transfer agreements with baccalaureate degree-awarding colleges and universities, and the Commonwealth Transfer Compact ensures the transferability of credits from the state’s community colleges to the state colleges and universities (see page 102). Presently, GCC has articulation agreements with:

- Art Institute of Boston
- Bay Path College, Longmeadow, MA
- Bentley College, Waltham, MA
- Lyndon State College, Lyndonville, VT
- Massachusetts School of Visual Arts, Boston, MA
- New England College, Henniker, NH
- North Adams State College
- Rensselaer Polytechnic Institute, Troy, NY
- University of Lowell
- University of Massachusetts
- Western New England College, Springfield, MA
- Westfield State College
- Worcester Polytechnic Institute
- Worcester State College

Library/Learning Resource Center

The Library/Learning Resource Center, located on the third floor core, is available to all citizens of Massachusetts of post-high school age who have appropriate identification, as well as all students, faculty and staff of GCC. The collection contains more than 67,000 units of print and non-print material. In addition to a rich variety of books, periodicals, newspapers and videocassettes, the library also has facilities for language practice, film and video viewing, microfilm reading and self-service photocopying.

Reader services include individual library instruction; information, reference and reserve assistance; interlibrary loan; and microfilm copying.

Five important special collections are available for public use: the Archibald MacLeish Collection, the Pioneer Valley Resource Center, the Yankee-Rowe Local Public Document Collection, the Massachusetts State Data Center census materials, and The Funding Source, a reference collection of grant-writing materials.

Adaptive equipment for students with physical disabilities is located in the library, including a Kurzweil Personal Reader and a Dragon Dictate workstation. A Telecommunications Device for the Deaf/Teletypewriter (TDD/TTY) is located in the Pioneer Valley Resource Center. The TDD/TTY number is (413) 774-2462.
The Learning Assistance Center

The staff at the Learning Assistance Center help students improve their academic and personal skills by providing a number of academic and counseling services. All services at the Learning Assistance Center are free of charge and confidential in nature. If you find yourself in need of academic help, if you are experiencing stress from personal problems, or if you are having trouble keeping up with school work, we urge you to visit the Learning Assistance Center on the fourth floor of the college (extension 221). For more information see p. 59.

Academic Computing Center

The Academic Computing Center (extension 339), located in the north end of the college on the third floor, is open to all currently enrolled GCC students, regardless of major or credit load. The center's personal computers may be used for term papers or other student projects. For those who may need help working on a computer, a tutor is often on duty.

Media Center

The Media Center (second floor core, extension 260) is responsible for meeting the growing educational communication needs of the college. Its staff provides instruction in the planning and production of media materials and the use of media-related equipment. In addition, the Media Center provides services in these areas:

- educational film and video rentals
- media equipment circulation
- television production
- computer-based presentations
- Apple Macintosh computer lab

Health Services

The Student Health Services staff is able to help with a variety of health problems and referrals. Most services are free of charge to any student enrolled at the college. The Health Services office, located off the first floor lobby, is open from 8:30 a.m. to 4:30 p.m., Monday through Friday. An adult nurse practitioner and a staff nurse are available on a drop-in basis and physician appointments are available twice a week. All medical records are confidential, information cannot be released without permission of the student.

State law requires students enrolled for nine credits or more to be covered by some form of health insurance to cover possible hospital costs; contact Health Services or the Business Office for more information about the Massachusetts Community College Accident and Sickness Insurance Plan. The Health Services office also has a Wellness Resource Center with a large selection of health-related materials. We invite you to drop in (or call extension 258) to read materials or view films about achieving and maintaining a high level of wellness.

Project UPDATE

Project UPDATE (Use Prevention: Drug, Alcohol, and Tobacco Education) is a program designed to reduce the threat which alcohol and other drug abuse poses to the intellectual, physical and mental well-being of GCC students and staff.

Project UPDATE employs the following prevention strategies: 1) identifying the root causes for substance abuse in our community; 2) recruiting people to take part in practical, do-able tasks; 3) strengthening individuals' critical thinking skills regarding
substance use; and 4) designing and conducting activities that address community members' experiences, concerns and life transitions.

Project UPDATE is available to help students with:

- personal issues around alcohol and other drug abuse, including consultation and referral;
- finding the most current information about substance abuse prevention, intervention and treatment, including bibliographies and help with research papers; and
- becoming more involved with eliminating the risks of alcohol and other drug abuse on campus and in the community.

You can also expect to find Project UPDATE presenting workshops, classes and in-class presentations; providing wellness, fitness, and athletic programs; sponsoring awareness activities and events; publishing a newsletter; and running the Fitness Mobile, a computer-based wellness program. *Extension 274.*

**College Store**

The College Store is open 9 a.m. to 4 p.m. daily during the academic year. Evening school and special-occasion hours will be posted in the lobby at the store entrance. The College Store carries supplies, required texts, paperbacks and study guides. We advise you to begin attending classes before you buy your books.

MasterCard and Visa are accepted, and personal checks will be accepted for the amount of purchase only. A maximum personal check of $5 will be accepted by the College Store for cash upon presentation of college ID. There is no charge for this service; however, there is a $5 charge for returned checks.

Refunds will be made for a period of two weeks after classes begin for the semester. Books must not be marked or damaged, and you must have both the sales slip and a processed drop/add form to return books. The policy on refunds does not apply to other merchandise.

**Dining Facilities**

The cafeteria is open Monday through Friday from 7:30 a.m. to 3 p.m. and evenings, Monday through Thursday, from 6 p.m. to 9 p.m. during the academic year. The cafeteria offers a full breakfast menu, hot entrees, sandwiches, and hot and cold drinks. A daily dinner special is available each day, and special group dinners, luncheons or coffee hours may be arranged through food services.
The Student Life program is a vital part of life at GCC. Student Life helps student groups plan and operate their programs, and encourages faculty to serve as organizational advisors and participants. Typical activities include cultural programs, exhibits, workshops, lectures, musical performances, videos, tours, trips, clubs, and social and recreational activities.

The Student Life Office (first floor, core, extension 266) publishes the annual Student Handbook, which includes all of the policies and regulations that apply to you as a student, as well as a full description of student services offered at GCC. Students are expected to read it, and are held responsible for policies and regulations included in it.

**Student Association**

When you pay your student activities fee, you automatically become a member of the Student Association, the structure within which the Student Senate and the Student Life program operate. Members may hold office, vote in elections and participate in Association programs.
Student Senate

As a student in good academic standing, you will be eligible for election by the members of the Student Association to the Student Senate. The Student Senate approves student organization budgets and supervises expenditures with the consent of the college president. The senate’s objectives are:

- to promote and support activities that enhance the life of the college community;
- to administer and allocate the funds of the Student Association in conjunction with the college administration;
- to represent the student body on and off campus; and
- to act with college officers in supervising the college activities program.

Performing Arts

The theater and music departments both offer opportunities for student performance. The college choir performs both on campus and in the community several times each year. At least one major theater production is presented each semester. Participation in all theater events is open to all members of the college community.

Fitness Center

The Fitness Center, located on the basement level below the mini-gymnasium in the north section of the building, offers a variety of cardiovascular and resistance equipment including a treadmill, step machine, cycle ergometer, rowing machine, weight-plated cross-over machine, computerized abdominal and biceps machines, tricep dip bar, and leg raise machine. It is student-run and free to all students. A variety of fitness incentive programs are offered.
The college provides a variety of credit and credit-free learning experiences in the evening and during the summer, held at various times and locations. Courses and workshops are designed in response to community needs, using college and community resources whenever possible, and at a reasonable cost consistent with the mandate, "at no cost to the Commonwealth."

Instructors include faculty members from the college's day division, as well as professors from other colleges and members of the surrounding communities.

Credit and credit-free courses are generally offered in the evening hours, in fall, spring, and summer sessions, as well as a wide range of community service workshops, lectures, conferences, community forums and other special events.
In addition, a number of summer programs for young people, such as Soccer Camp, Baseball Camp, and the Summer Sampler Program are made available in conjunction with other organizations.

Most of the courses offered are held at the Greenfield campus, but some are scheduled at the Franklin County Technical School in Turners Falls and Smith Vocational High School in Northampton. Credit and credit-free courses may be scheduled at other off-campus locations on request.

Course guides describing program offerings are published in August for the fall term, January for spring, and April for summer.

**Center for Business and Industry**

The Center for Business and Industry, established in 1988, provides customized training and education programs for area businesses. Courses are offered either in the workplace, at the Greenfield campus, or at one of the college's satellite centers.

Center staff are available to consult about your needs, and ways in which GCC may be of assistance. *Extension 278.*
MASSACHUSETTS HIGHER EDUCATION COORDINATING COUNCIL

Piedad F. Robertson, chair
Mary Lou Anderson
Robert V. Antonucci
James N. Bailey
Tamara P. Davis
Jane C. Edmonds
Arthur Gelb
Arnold S. Hiatt
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Nancy F. Mayberry
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FACULTY EMERITI

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A.E.E.E., Worcester Junior College; B.S.E.E., M.S.C.E., University of Massachusetts

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A.B., College of Holy Cross; M.A., Ph.D., University of Massachusetts

Helen E. Ellis  English
B.A., University of Massachusetts; M.A.T., Smith College; Ph.D., University of Massachusetts

Edward J. Kane  Criminal Justice
B.S., Springfield College; M.P.A., City University of New York

David A. Harvey  Physics, Electronics
B.A., Taylor University; M.Ed., Bridgewater State College; M.A., Ohio State University; Ed.D., University of Massachusetts

Warren I. Johannson  Biology, Geology
B.S., M.S., Ph.D., University of Massachusetts

Virginia B. Low  English
B.A., William Smith College; M.A., University of Massachusetts

Joan T. Rising  Art
B.F.A., Syracuse University; M.F.A., University of Massachusetts

Margaret W. Stein  Art
B.F.A., Syracuse University; M.F.A., University of Massachusetts

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B.A., Princeton University; Ph.D., Massachusetts Institute of Technology

Lynne Morris  Staff Assistant
A.S., Greenfield Community College

Elizabeth G. Roop  Staff Associate
A.S., Middlesex Community College; B.S., University of Lowell; M.A., Lesley College

Behavioral/Social Sciences (Group I)

Muirless R. Underwood  Dean
A.A., Vermont College; B.A., Clark University; M.A., C.A.G.S., Assumption College; Ph.D., The Union Institute

Linda M. Horta  Secretary
A.S., Greenfield Community College

Humanities (Group II)

Joan S. Ibish  Dean
B.A., Smith College; M.A., Radcliffe College; Ph.D., Harvard University

Trudy B. Rucci  Secretary
Business—Natural Sciences—Mathematics
(GroupName)

Linda M. Cavanaugh  Dean
B.S., M.S., University of Massachusetts

Suzanne J. Belcher  Secretary
B.S., Bates College

Ronald E. Smith  Technical Assistant
A.S., Greenfield Community College

Health Occupations/Nursing
Margaret M. Craig  Director
B.S.N., Columbia University; M.S.N., Boston University

Laura J. Earl  Secretary
A.S., Bay Path College

ACADEMIC COMPUTER CENTER
Verne P. Richardson  EDP Computer Operations Supervisor
A.S., Greenfield Community College

Kenneth S. Ketchum  Technical Assistant II
A.S., Greenfield Community College

ADMISSION AND STUDENT RECORDS
Donald W. Brown  Director
B.S., M.Ed., Springfield College

Herbert E. Hentz  Assistant Director
B.A., Wilberforce University

Jan Kaiser  Assistant Director
B.A., University of Massachusetts

Judith A. Kennedy  Admission Secretary
A.S., Northampton Junior College

Janet Rozak  Admission Secretary

Janna M. Thompson  Admission Secretary
B.A., Mt. Holyoke College

AFFIRMATIVE ACTION
Herbert E. Hentz  Director of Diversity
B.A., Wilberforce University

ALUMNI/AE AFFAIRS
Charles E. Carter  Executive Director
B.S.C.E., Duke University; M.B.A., American International College

Kathleen S. Meredith  Staff Assistant
B.M., Oberlin Conversatory

BOOKSTORE
Elizabeth M. Rosewarne  Director
Carolyn S. Sautter  Clerk II
Karen Cole  Clerk I
BUSINESS OFFICE

Edward Preissler  Associate Dean of Administrative Services  
B.A., B.B.A., M.G.A., University of Massachusetts; M.Ed.  
Springfield College

Jill J. Crooker  Assistant Controller  
B.S., University of Massachusetts

Elizabeth L. Carroll  Secretary  
A.S., Greenfield Community College

Martha L. Markwell  Staff Assistant, Purchasing  

Marilyn A. Bellows  Bookkeeper I  

Debra L. Call  Bookkeeper I  

James Connelly  Accountant I  
A.S., Greenfield Community College

Matthew Farmer  Bookkeeper I  
A.S., Durham Technical Community College

Karen Phillips  Accountant I  
B.B.A., University of Massachusetts

COOPERATIVE EDUCATION

Mared Alicea  Director  
B.A., University of Puerto Rico; M.A., University of Massachusetts

Jean Boucias  Job Placement Specialist

Valerie Vitello  Secretary  
B.S., University of Massachusetts

CUSTODIAL AND GROUNDS

John A. Markwell, Jr.  Maintenance Foreman  
A.A., Greenfield Community College

Joseph W. Audette  Motor Equipment Mechanic I  
A.S., Stockbridge School of Agriculture

Carol A. Broderick  Maintainer

Judith A. Flynn  Maintainer  
A.S., Greenfield Community College

Louis M. Hale, Sr.  Maintainer

John E. Imbimbo  Maintainer  
B.A., University of Massachusetts

Kenneth Kuzontkoski  Maintainer

Alan R. Miner  Maintainer  
A.S., Stockbridge School of Agriculture

Harold H. Patton, Jr.  Maintainer

Andrew M. Pearson  Maintainer

Timothy D. Shipee  Groundskeeper  
A.S., Greenfield Community College
ENROLLMENT AND COMMUNITY SERVICE

Robert B. Keir  Dean of Enrollment and Community Service
B.S., American International College; M.S., Indiana University

Donna L. Barton  Staff Assistant

Heather A. Hoyt  EDP Operator II
A.S., Greenfield Community College

Thomas Lewis  Staff Associate/Coordinator, Business, Industry and Agency Programs
B.A., University of Massachusetts; M.B.A., Ateneo University

Deanna J. Lovett  EDP Operator I

Pamela C. Simanski  Career Counselor
B.A., College of Mount St. Vincent; M.Ed., Cambridge College

FACULTY

Federico I. Agnir  Coordinator, Speech
B.A., University of Philippines; B.D., Silliman University;
M.A., Syracuse University; Ed.D., University of Massachusetts

Jeanne A. Ashley  Coordinator, Recreation and Leisure Services
A.A., B.A., Point Park College; M.S., Slippery Rock College

Janet G. Balise  Office Administration
B.S., American International College; M.Ed., Boston University

George K. Bluh  History, Philosophy
B.S., M.A., University of Colorado

Thomas W. Boisvert  Art
B.S., University of Southern Maine; M.Ed., Utah State University

John Bross  Art
B.S., M.S., Indiana University; M.F.A., University of Iowa

Lawrence H. Buell  Outdoor Leadership
B.S., Springfield College; M.S., Pennsylvania State University;
Ed.D., University of Massachusetts

Cristin L. Carpenter  Coordinator, English as a Foreign Language
B.A., M.A., Ph.D., University of Michigan

Susan B. Childs  Licensed Practical Nursing
B.A., St. Anselm College; M.A., Westfield State College

L. Edward Dolhenty  Coordinator, Human Services; Psychology
B.S., B.A., Boston College; M.Ed., Fitchburg State College;
C.A.G.S., Boston University; Ed.D., University of Massachusetts

Katherine P. Douglas  Coordinator, Outdoor Leadership Program
B.S., M.A., University of Massachusetts

Peter H. Dudley  Art
B.F.A., Rhode Island School of Design; M.F.A., University of Massachusetts

Martha K. Field  Economics, Business
B.S., M.S., University of Massachusetts; Ph.D., University of Connecticut

134 Personnel
Catherine M. Finnegan  Early Childhood Education  
B.A., LeMoyne College; M.Ed., University of Massachusetts

Ana M. Gaillat  Chemistry  
Chemistry Licenciateship, Buenos Aires University; M.S., University of Massachusetts

Jeffrey A. Galbraith  Business, Management  
A.A., St. John's College; B.A., Concordia Senior College;  
M.Div., Harvard University Divinity School; Th.M, Harvard University Divinity School; M.B.A., University of Massachusetts; Ph.D., Boston University

Charlotte Gifford  Coordinator, Foreign Language  
B.A., Tufts University; M.A., Middlebury College

H. James Godwin  Director, Theatre; Speech  
B.A., Kings College; M.A., Pennsylvania State University

Melinda J. Gougeon  Coordinator, Mathematics  
A.S., Greenfield Community College; A.B., M.A.T., Smith College

Saul Greenblatt  Speech  
B.S., M.S., Emerson College

Arthur J. Hannan  Psychology  
A.B., University of Massachusetts; M.A., Columbia University

Joanne M. Hayes  English  
B.S., University of Wisconsin; M.A., Johns Hopkins University

T. Budge Hyde  Coordinator, Art, Graphic Design and Media  
B.F.A., University of Utah; M.F.A., University of Cincinnati

David M. Johnson  Psychology  
A.A., Berkshire Community College; B.A., University of Massachusetts; M.S., C.A.G.S., Springfield College; Psy.D., Massachusetts School of Professional Psychology

Ron Kim  Art  
B.F.A., Rhode Island School of Design; M.A., University of Massachusetts

Judith L. Kinley  Nursing/Ethics  
B.S., University of New Hampshire; M.S., University of Massachusetts; M.T.S., Harvard University

Penne A. Krol  Art  
A.S., Greenfield Community College; B.A., Smith College;  
M.F.A., University of Massachusetts

Arlene J. Laflamme-Paton  Nursing  
B.S.N., M.Ed., University of Massachusetts

Daniel F. LaRose  Psychology  
A.A., Greenfield Community College; B.A., American International College; M.Ed., Springfield College

Peter R. Letson  Mathematics; Physics  
B.A., Earlham College; M.A., Hofstra University; M.S., Brown University

Richard D. Little  Geology  
B.A., Clark University; M.A., University of Southern California

Doris Matte  Nursing  
B.S.N., Boston University; M.S.N., University of Massachusetts

Joan M. Merrigan  Nursing  
B.S.N., Master's Equivalent, Boston College
<table>
<thead>
<tr>
<th>Name</th>
<th>Position/Field</th>
<th>Education Details</th>
</tr>
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<tbody>
<tr>
<td>Norman J. Muller</td>
<td>Computer Information Systems</td>
<td>B.S., American International College; M.Ed., Westfield State College</td>
</tr>
<tr>
<td>Phyllis R. Nahman</td>
<td>Coordinator, English</td>
<td>B.A., M.Ed., University of Massachusetts</td>
</tr>
<tr>
<td>Carolyn S. Nims</td>
<td>English; English as a Foreign Language</td>
<td>A.A., Greenfield Community College; B.A., M.A.T., Smith College; M.A., University of Massachusetts</td>
</tr>
<tr>
<td>Donald P. Oberacker</td>
<td>Biology</td>
<td>B.S., Utah State University; M.S., University of Maryland; C.A.G.S., University of Connecticut</td>
</tr>
<tr>
<td>Jeanne Pacheco</td>
<td>Licensed Practical Nursing</td>
<td>A.S., Greenfield Community College; B.A., M.A., University of Massachusetts</td>
</tr>
<tr>
<td>Carol S. Pike</td>
<td>Mathematics</td>
<td>A.A., Hartford College for Women; B.S., University of Connecticut; M.A.T., Smith College</td>
</tr>
<tr>
<td>Alan F. Rainford</td>
<td>Accounting</td>
<td>B.S., University of Massachusetts; M.B.A., American International College; Certified Public Accountant</td>
</tr>
<tr>
<td>John S. Reino</td>
<td>Marketing, Management</td>
<td>B.S., Boston College; M.B.A., Northeastern University</td>
</tr>
<tr>
<td>Gerard J. Richard</td>
<td>Coordinator, Criminal Justice Program</td>
<td>B.A., M.A.T., University of Massachusetts</td>
</tr>
<tr>
<td>Wilson Roberts</td>
<td>English</td>
<td>B.A., Drew University; M.A., Appalachian State University</td>
</tr>
<tr>
<td>Peter C. Rosnick</td>
<td>Mathematics</td>
<td>B.A., Tufts University; Ed.D., University of Massachusetts</td>
</tr>
<tr>
<td>Lillian Ruiz-Powell</td>
<td>English</td>
<td>B.A., University of Rochester; M.A., University of California at Los Angeles</td>
</tr>
<tr>
<td>Gertrude P. Sheaffer</td>
<td>Coordinator, Food Science; Biology</td>
<td>B.S., Lycoming College; M.Ed., East Stroudsberg State College</td>
</tr>
<tr>
<td>Saul Sherter</td>
<td>History</td>
<td>B.A., Northeastern University; M.A., Boston University</td>
</tr>
<tr>
<td>Jean A. Simmons</td>
<td>Nursing</td>
<td>A.S., Greenfield Community College; B.S.N., St. Anselm College; M.S.N., University of Massachusetts</td>
</tr>
<tr>
<td>George Soulus</td>
<td>Coordinator, Music</td>
<td>B.M., M.M., Hartt College of Music</td>
</tr>
<tr>
<td>Herbert F. Steeper</td>
<td>Political Science</td>
<td>A.B., Stanford University; A.M., M.A.L.D., Ph.D., Fletcher School of Law and Diplomacy, Tufts-Harvard Universities</td>
</tr>
<tr>
<td>Peter C. Steve</td>
<td>Biology; Chemistry; Environmental Science</td>
<td>B.S., University of Rhode Island; M.S., Ph.D., University of Massachusetts</td>
</tr>
<tr>
<td>Lynne Stewart-White</td>
<td>Nursing</td>
<td>B.S., Salve Regina College; M.S.N., Boston University</td>
</tr>
<tr>
<td>Toby B. Sutton</td>
<td>Data Processing; Astronomy</td>
<td>B.A., University of California; M.S.T., Cornell University</td>
</tr>
</tbody>
</table>
William R. Sweeney  
B.A., M.A., Columbia University  

Faythe E. Turner  
B.A., Denison University; M.A., University of Rhode Island;  
M.A., Ph.D., University of Massachusetts  

Gregory C. Vouros  
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A.A., Boston University; B.A., M.A., University of Massachusetts  

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Gretchen Watson  
B.A., M.A., Colorado State University  

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B.S., M.S., Ed.D., Syracuse University  

Anne M. Wiley  
Psychology; Early Childhood Education  
B.A., LeMoyne College; M.Ed., State University of New York;  
Ed.D., University of Massachusetts  

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B.A., Drew University; M.A.T., University of Massachusetts  

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B.A., Goddard College; M.F.A., Rhode Island School of Design  

Stella B. Xanthakos  
Criminal Justice  
B.A., University of Massachusetts; J.D., Antioch School of Law  

FINANCIAL AID  

Jane L. Abbott  
Director  
A.S., Greenfield Community College; B.S., Bryant College;  
M.Ed., Springfield College  

Susan J.H. Olmstead  
Assistant Director  
B.S., Keene State College  

Barbara A. Smead  
Veterans Affairs Coordinator;  
Staff Assistant/Financial Aid  
A.S., Greenfield Community College  

Patricia Martin  
Secretary  
A.S., Greenfield Community College  

Lisa Prolman  
Secretary  
B.A., University of Massachusetts; M.A., Simmons College  

FITNESS, WELLNESS, AND ATHLETICS  

Jeffrey L. Coulson  
Coordinator  
B.A., Ohio Wesleyan University; M.A., Antioch New England  

Bonnie Hoffman  
Secretary  

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FOOD SERVICES
Gary Weiss Manager

GENERAL EDUCATIONAL DEVELOPMENT (GED) TESTING
Laima A. Brunner Coordinator
A.S., Greenfield Community College

GRANTS
Steven G. Budd Director of Development
B.S., M.B.A., University of Massachusetts

GREENFIELD COMMUNITY COLLEGE FOUNDATION
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Kathleen S. Meredith Staff Assistant
B.M., Oberlin Conversatory
Julia E. White Secretary
B.A., University of Massachusetts

HEALTH SERVICES
Nancy L. Buchanan Director
R.N., Massachusetts General Hospital; Certificate in College Health Nursing, University of Massachusetts; Certified Adult Nurse Practitioner
Patricia A. Jurek Secretary
William R. Buchanan Medical Director
B.A., Yale University; M.D., Harvard Medical School, Massachusetts General Hospital
Robert J. Miller Medical Consultant
B.A., Lehigh University; M.D., Jefferson Medical College of Thomas Jefferson University
Victoria Sutton Staff Nurse
A.S., Greenfield Community College

INFORMATION SYSTEMS
Martha J. Banda Coordinator, Title III
B.A., University of Massachusetts; M.Ed., Cambridge College
Sylvia M. Carey EDP Programmer IV
David W. Charbonneau Electronic Computer Operator II
B.S., University of Massachusetts
Kelly J. Dapprich EDP Programmer I
Louise A. Ellis EDP Programmer II
A.A., A.S., Greenfield Community College; B.A., University of Massachusetts
Sandra A. Haughey Electronic Computer Operator I
Diane Mueller-Klingspor Database Administrator
B.A., University of Massachusetts

138 Personnel
LEARNING ASSISTANCE PROGRAMS

Jane E. Lerner Coordinator
B.A. Hampshire College; M.Ed., University of Massachusetts

Julie Shaw Secretary

Montserrat Archbald Staff Assistant
B.A., Oberlin College

Michael J. Bathory Counselor/Liaison to Tutoring Program
B.A., Oberlin College; M.A., Ph.D., Ohio State University

Arthur J. Hannan Counselor
A.B., University of Massachusetts; M.A., Columbia University

Mary Ellen C. Kelly Coordinator, Writing Assistance Program
A.A., Asnuntuck Community College; B.A., M.A.T., University of Massachusetts

Suzanne J. McGowan Counselor
B.A., Chatham College; M.A., University of Massachusetts

David Patrick Counselor
B.A., Brooklyn College; M.S., Long Island University

Carol S. Pike Coordinator, Math Assistance Program
A.A., Hartford College for Women; B.S., University of Connecticut; M.A.T., Smith College

LIBRARY/LEARNING RESOURCES CENTER

Carol G. Letson Director
A.B., Earlham College; M.A., Palmer Graduate Library School, Long Island University

Norma T. Spicher-Hillier Reference Librarian
B.A., Keene State College; M.L.S., University of Rhode Island

Deborah S. Chown Library Assistant II
A.A., Greenfield Community College; B.A., State University of New York

Carolywn R. Bellany Library Assistant I
A.A., Greenfield Community College

Lucile L. Bolton Evening Librarian
A.S., Green Mountain College; B.S., Boston University

Hope B. Schneider Library Assistant I

MAIL SERVICES

Diana Roberts Mail Clerk
A.S., Greenfield Community College; B.A., University of Massachusetts

MAINTENANCE

John W. Pride, Jr. Institutional Maintenance Foreman
A.A., A.S., Greenfield Community College; B.S., University of Massachusetts

Wayne E. Coller Electrician
Frank Petersen Electrician
David M. Robert Trades Worker
MATH CONNECTION, THE

Karen B. Green  Director
B.A., Brandeis University; M.A., Wheelock College

MEDIA CENTER

John M. Canon  Technical Assistant I
A.S., Greenfield Community College

Dennis W. Koonz  Media Production Specialist
A.S., Greenfield Community College; B.A., University of Massachusetts

Garry M. Longe  Coordinator, Television Services
A.S., Greenfield Community College

Karen Truehart  Secretary
A.A., Greenfield Community College

PERSONNEL

Regina G. Reger  Accountant I/Payroll
A.S., Greenfield Community College

Nina M. Cook  Clerk IV, Personnel/Payroll
B.A., University of Massachusetts

PHYSICAL PLANT

Sterling E. Clark  Utility Plant Operator
A.S., Ward Technical College

Todd R. Berthiaume  Technical Assistant

Perry E. Cole  AV/TV Technical Assistant

Frank E. Hill  Refrigeration Mechanic

PIONEER VALLEY INSTITUTE

Louise Minks  Coordinator
B.A., Taylor University; M.A., Indiana University

PUBLIC RELATIONS

Russell S. Powell  Director, Marketing and Public Relations
B.A., University of Massachusetts

RESEARCH AND PLANNING

Lawrence A. Dean  Assistant to the President
B.A., Cornell University; M.Ed., Westfield State College

RETURNING ADULT STUDENTS

Jan Kaiser  Director
B.A., University of Massachusetts
SECURITY AND COMMUNICATIONS

Valerie A. Knowlton    Director, Safety and Security
A.A., Greenfield Community College; Massachusetts Criminal Justice Training Council certificate; Connecticut State Police Academy graduate

Ann E. Sloan           Institutional Security Officer
Massachusetts State Police Training certificate

Cynthia Wheeler        Switchboard Operator

SHIPPING, RECEIVING AND DUPLICATING SERVICES

John T. Murphy         Storekeeper III
A.S., Greenfield Community College

Joseph J. Gregory      Duplicating Technician

STUDENT LIFE

Merryl Sackin          Director
B.S., Montclair State College

Corey A. Hickey        Secretary

Scott A. Schmith       Staff Assistant
A.A., Greenfield Community College

SUBSTANCE ABUSE PREVENTION

Judy Sopinski          Director, Tri-County Partnership
B.A., Bowling Green State University; M.S.Ed, City College of New York

Jeffrey L. Coulson     Director, Project UPDATE
B.A., Ohio Wesleyan University; M.A., Antioch New England

Bonnie Hoffman         Secretary

TECH-PREP

Charlotte Rahaim        Director
B.B.A., University of Massachusetts; M.Ed., Fitchburg State College; Ed.D., University of Massachusetts

Barbara A. Hendrickson Secretary
A.S., Holyoke Community College; B.A., Elms College

TRANSFER

Robert M. Yacubian     Coordinator
B.S., Babson College; C.A.G.S., M.Ed., University of Massachusetts
### 1994-95 Academic Calendar

#### FALL SEMESTER 1994

<table>
<thead>
<tr>
<th>Event</th>
<th>Date</th>
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<tbody>
<tr>
<td>New Student Registration</td>
<td>June 13</td>
</tr>
<tr>
<td>Professional Day—no classes</td>
<td>September 1</td>
</tr>
<tr>
<td>Final Registration</td>
<td>September 2</td>
</tr>
<tr>
<td>Labor Day—no classes</td>
<td>September 5</td>
</tr>
<tr>
<td>Day Student Orientation—no classes</td>
<td>September 6</td>
</tr>
<tr>
<td>Classes Begin</td>
<td>September 7</td>
</tr>
<tr>
<td>Last Day to Add Classes</td>
<td>September 14</td>
</tr>
<tr>
<td>&quot;IN&quot; Grades converted to &quot;F&quot;</td>
<td>October 6</td>
</tr>
<tr>
<td>Columbus Day—no day classes/evening classes as scheduled</td>
<td>October 10</td>
</tr>
<tr>
<td>Last Day to Withdraw—no record</td>
<td>October 12</td>
</tr>
<tr>
<td>Deficiency Notices Due</td>
<td>October 26</td>
</tr>
<tr>
<td>Veterans' Day—no classes</td>
<td>November 11</td>
</tr>
<tr>
<td>Last Day to Withdraw—with a grade of &quot;W&quot;</td>
<td>November 17</td>
</tr>
<tr>
<td>Thanksgiving Recess Begins—no evening classes</td>
<td>November 23</td>
</tr>
<tr>
<td>Thanksgiving Recess—no classes</td>
<td>November 24-25</td>
</tr>
<tr>
<td>Classes Resume</td>
<td>November 28</td>
</tr>
<tr>
<td>Spring Registration for Current Students Begins</td>
<td>November 28</td>
</tr>
<tr>
<td>Last Day of day classes</td>
<td>December 19</td>
</tr>
<tr>
<td>Final Exams—day classes</td>
<td>December 20-23</td>
</tr>
<tr>
<td>Last Day of Classes and Exams—evening classes</td>
<td>December 22</td>
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#### SPRING SEMESTER 1995

<table>
<thead>
<tr>
<th>Event</th>
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<tbody>
<tr>
<td>Final Registration</td>
<td>January 23</td>
</tr>
<tr>
<td>Day Student Orientation</td>
<td>January 24</td>
</tr>
<tr>
<td>Classes Begin</td>
<td>January 25</td>
</tr>
<tr>
<td>Last Day to Add Classes</td>
<td>February 1</td>
</tr>
<tr>
<td>Presidents' Day—no day classes/evening classes as scheduled</td>
<td>February 20</td>
</tr>
<tr>
<td>&quot;IN&quot; Grades Converted to &quot;F&quot;</td>
<td>February 23</td>
</tr>
<tr>
<td>Last Day to Withdraw—no record</td>
<td>March 1</td>
</tr>
<tr>
<td>Professional Day—no day classes/evening classes as scheduled</td>
<td>March 9</td>
</tr>
<tr>
<td>Deficiency Notices Due</td>
<td>March 15</td>
</tr>
<tr>
<td>Evacuation Day—no classes</td>
<td>March 17</td>
</tr>
<tr>
<td>Spring Recess—no classes</td>
<td>March 20-24</td>
</tr>
<tr>
<td>Last Day to Withdraw—with a grade of &quot;W&quot;</td>
<td>April 13</td>
</tr>
<tr>
<td>Patriots' Day—no day classes/evening classes as scheduled</td>
<td>April 17</td>
</tr>
<tr>
<td>Fall Registration for Current Students Begins</td>
<td>April 23</td>
</tr>
<tr>
<td>Last Day of Classes—day classes</td>
<td>May 15</td>
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<tr>
<td>Final Exams—day classes</td>
<td>May 16-19</td>
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<tr>
<td>Last Day of Classes and Exams—evening classes</td>
<td>May 16</td>
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<tr>
<td>Commencement</td>
<td>June 4</td>
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#### INTERSESSION 1995

(tentative)

<table>
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<tr>
<td>Classes Begin</td>
<td>January 3</td>
</tr>
<tr>
<td>Martin Luther King, Jr. Day—no classes</td>
<td>January 16</td>
</tr>
<tr>
<td>Last Day of Classes and Exams</td>
<td>January 23</td>
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#### 1995 SUMMER SESSIONS

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<thead>
<tr>
<th>Session</th>
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<tbody>
<tr>
<td>Session I</td>
<td>Final Registration</td>
<td>May 17</td>
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<td>Classes Begin</td>
<td>May 22</td>
</tr>
<tr>
<td></td>
<td>Memorial Day—no classes</td>
<td>May 29</td>
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<tr>
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<td>Last Day to Add Credit Classes</td>
<td>May 30</td>
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<tr>
<td></td>
<td>Last Day to Withdraw—no record—credit classes</td>
<td>June 7</td>
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<tr>
<td></td>
<td>Deficiency Notices Due</td>
<td>June 19</td>
</tr>
<tr>
<td></td>
<td>Last Day to Withdraw—&quot;W&quot;—credit classes</td>
<td>June 26</td>
</tr>
<tr>
<td></td>
<td>Independence Day—no classes</td>
<td>July 4</td>
</tr>
<tr>
<td></td>
<td>Last Day of Classes and Exams</td>
<td>July 11</td>
</tr>
<tr>
<td>Session II</td>
<td>Final Registration</td>
<td>July 12</td>
</tr>
<tr>
<td></td>
<td>Classes Begin</td>
<td>July 17</td>
</tr>
<tr>
<td></td>
<td>Last Day to Add Credit Classes</td>
<td>July 24</td>
</tr>
<tr>
<td></td>
<td>Last Day to Withdraw—no record—credit classes</td>
<td>August 1</td>
</tr>
<tr>
<td></td>
<td>Deficiency Notices Due</td>
<td>August 11</td>
</tr>
<tr>
<td></td>
<td>Last Day to Withdraw—&quot;W&quot;—credit classes</td>
<td>August 18</td>
</tr>
<tr>
<td></td>
<td>Last Day of Classes and Exams</td>
<td>August 31</td>
</tr>
</tbody>
</table>
## Final Exam Schedule
### Day Classes

**FALL SEMESTER, 1994**
*Tuesday through Friday, December 20–23, 1994*

<table>
<thead>
<tr>
<th>Exam Time</th>
<th>Class Details</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Tuesday,</strong></td>
<td>Multiple Section (Business) 8 a.m.</td>
</tr>
<tr>
<td><strong>December 20,</strong></td>
<td>TTh 9:30–10:45</td>
</tr>
<tr>
<td><strong>Multiple Section (Humanities)</strong></td>
<td>10:30 a.m.</td>
</tr>
<tr>
<td><strong>Multiple Section (Business)</strong></td>
<td>3:30 p.m.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Exam Time</th>
<th>Class Details</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Wednesday,</strong></td>
<td>MWF 8–8:50</td>
</tr>
<tr>
<td><strong>December 21,</strong></td>
<td>Multiple Section (Behavioral Sciences) 10:30 a.m.</td>
</tr>
<tr>
<td><strong>MWF</strong></td>
<td>10–10:50</td>
</tr>
<tr>
<td><strong>MWF</strong></td>
<td>2–2:50</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Exam Time</th>
<th>Class Details</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Thursday,</strong></td>
<td>TTh 8–9:15</td>
</tr>
<tr>
<td><strong>December 22,</strong></td>
<td>TTh 11–12:15</td>
</tr>
<tr>
<td>**TTh 12:30–1:45</td>
<td>10:30 a.m.</td>
</tr>
<tr>
<td><strong>Multiple Section (Special Times Courses)</strong></td>
<td>1 p.m.</td>
</tr>
<tr>
<td><strong>Multiple Section (Special Times Courses)</strong></td>
<td>3:30 p.m.</td>
</tr>
</tbody>
</table>

**Friday,**
*December 23, at*

<table>
<thead>
<tr>
<th>Exam Time</th>
<th>Class Details</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>MWF</strong></td>
<td>9–9:50</td>
</tr>
<tr>
<td><strong>Multiple Section (Math)</strong></td>
<td>10:30 a.m.</td>
</tr>
<tr>
<td><strong>MWF</strong></td>
<td>11–11:50</td>
</tr>
<tr>
<td><strong>MWF</strong></td>
<td>1–1:50</td>
</tr>
</tbody>
</table>

**SPRING SEMESTER 1995**
*Tuesday through Friday, May 16–19, 1995*

<table>
<thead>
<tr>
<th>Exam Time</th>
<th>Class Details</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Tuesday,</strong></td>
<td>Multiple Section (Behavioral Sciences) 8 a.m.</td>
</tr>
<tr>
<td><strong>May 16,</strong></td>
<td>TTh 9:30–10:45</td>
</tr>
<tr>
<td>**TTh 12:30–1:45</td>
<td>10:30 a.m.</td>
</tr>
<tr>
<td><strong>TTh 2–3:15</strong></td>
<td>3:30 p.m.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Exam Time</th>
<th>Class Details</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Wednesday,</strong></td>
<td>MWF 9–9:50</td>
</tr>
<tr>
<td><strong>May 17,</strong></td>
<td>Multiple Section (Behavioral Sciences) 8 a.m.</td>
</tr>
<tr>
<td><strong>MWF</strong></td>
<td>10–10:50</td>
</tr>
<tr>
<td><strong>MWF</strong></td>
<td>1–1:50</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Exam Time</th>
<th>Class Details</th>
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</thead>
<tbody>
<tr>
<td><strong>Thursday,</strong></td>
<td>TTh 8–9:15</td>
</tr>
<tr>
<td><strong>May 18,</strong></td>
<td>TTh 11–12:15</td>
</tr>
<tr>
<td><strong>TTh 2–3:15</strong></td>
<td>10:30 a.m.</td>
</tr>
<tr>
<td><strong>TTh 2–3:15</strong></td>
<td>3:30 p.m.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Exam Time</th>
<th>Class Details</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Friday,</strong></td>
<td>Multiple Section (Behavioral Sciences) 8 a.m.</td>
</tr>
<tr>
<td><strong>May 19,</strong></td>
<td>MWF 8–8:50</td>
</tr>
<tr>
<td><strong>MWF</strong></td>
<td>10–10:50</td>
</tr>
<tr>
<td><strong>MWF</strong></td>
<td>1–1:50</td>
</tr>
<tr>
<td><strong>MWF</strong></td>
<td>2–2:50</td>
</tr>
</tbody>
</table>
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Advising Codes

An advising code appears in parentheses at the end of each course title. You should refer to this code in selecting appropriate courses to fulfill your particular program requirements, and to fulfill the requirements of the Commonwealth Transfer Compact (see page 102), including the University of Massachusetts’ diversity requirement (courses with an asterisk). Our advising codes are as follows:

<table>
<thead>
<tr>
<th>A</th>
<th>Career courses that may be used as liberal arts electives in programs of study leading to the Associate of Arts degree (Liberal Arts and Business Administration Transfer), but not as liberal arts electives in any other program. These courses provide theoretical foundations for career fields, but, by the breadth of their course materials, they also serve to increase students’ knowledge of, and appreciation for, contemporary culture.</th>
</tr>
</thead>
<tbody>
<tr>
<td>B</td>
<td>Behavioral science/social science courses (anthropology, economics, human ecology, political science, psychology, sociology).</td>
</tr>
<tr>
<td>C</td>
<td>Liberal arts courses that may be used to fulfill core requirements for the Associate of Arts degree or as liberal arts electives in any other program. Such courses provide comprehensive, non-specialized study within the typical liberal arts disciplines: the humanities, the behavioral and social sciences, and mathematics and the natural sciences.</td>
</tr>
<tr>
<td>D</td>
<td>Courses emphasizing the improvement of basic reading, writing, mathematical, and study skills. These courses may not be used to fulfill associate degree requirements. A final grade of “D” will not be awarded in these courses (A, A-, B+, B, B-, C+, C, C-, and F are grades awarded).</td>
</tr>
<tr>
<td>E</td>
<td>English Composition I (ENG 101, 103, 105) and English Composition II (ENG 112, 114, 116).</td>
</tr>
<tr>
<td>H</td>
<td>Humanities/fine arts courses (art, English, folklore, foreign languages, history, humanities, journalism, music, philosophy, speech, theater).</td>
</tr>
<tr>
<td>L</td>
<td>Liberal arts courses that may be used as liberal arts electives in any program, but not as core courses for the Associate of Arts degree. These courses provide focused, concentrated study within a typical liberal arts discipline. (“Liberal Arts” comprises those areas of study listed under the humanities, the behavioral and social sciences, and mathematics and the natural sciences, as opposed to the study of professional or technical subjects).</td>
</tr>
<tr>
<td>N</td>
<td>Natural science/math courses (biology, chemistry, environmental science, geology, mathematics, physics, science).</td>
</tr>
<tr>
<td>S</td>
<td>SPE 101Oral Communication: Public Speaking, and SPE 121Oral Communication: Group Discussion</td>
</tr>
<tr>
<td>X</td>
<td>Courses whose subject matter emphasizes technical career skills, personal growth, or leisure education. They may be used as general electives in any program. A maximum of 12 “X” credits (including a maximum of four in</td>
</tr>
</tbody>
</table>