Welcome to Cape Cod Community College.

Whether you are pursuing a degree, enhancing job skills, or seeking personal growth, the committed faculty and staff here are focused on providing an outstanding learning experience for you.

Your education is our first priority. A broad range of support includes advising, tutoring, and counseling for all here to complement your experience and enhance your success.

Please explore our programs, certificates, and degree options. You’ll find 43 Associate Degree concentrations and 42 certificate programs combined with campus services designed specifically to help you achieve your goals.

I invite you to learn more. Let us show you how to build an even fuller life and brighter future with Cape Cod Community College.

Yours sincerely,

John L. Cox
President
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*Information Subject to Change*: This catalog is published as a convenience and source of information for prospective students and for the general public. It should be understood, however, that the College reserves the right to add, revise, or withdraw courses and programs as described herein.
### Academic Calendar

#### Fall Semester 2012

<table>
<thead>
<tr>
<th>Date</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>August 1</td>
<td>Registered Students' Tuition and Fees are due</td>
</tr>
<tr>
<td>27</td>
<td>Final cancellation of low enrolled classes</td>
</tr>
<tr>
<td>29</td>
<td>Adjunct Faculty Orientation</td>
</tr>
<tr>
<td>30</td>
<td>Opening Day for Faculty &amp; Professional Staff</td>
</tr>
<tr>
<td>September 3</td>
<td>Labor Day observance - College closed</td>
</tr>
<tr>
<td>4</td>
<td>Classes begin</td>
</tr>
<tr>
<td>10</td>
<td>Last day to change a schedule</td>
</tr>
<tr>
<td>10</td>
<td>Last day to drop a course with no academic record</td>
</tr>
<tr>
<td>10</td>
<td>Last day to drop a course for 100% refund</td>
</tr>
<tr>
<td>17</td>
<td>Last day to drop a course for 50% refund</td>
</tr>
<tr>
<td>October 1</td>
<td>Priority filing date for January graduation</td>
</tr>
<tr>
<td>8</td>
<td>Columbus Day observance - College closed</td>
</tr>
<tr>
<td>19</td>
<td>Professional Day - College Closed*</td>
</tr>
<tr>
<td>22</td>
<td>Mid-term warning grades due to Registrar</td>
</tr>
<tr>
<td>29</td>
<td>Advising period begins for currently enrolled students for Spring 2013</td>
</tr>
<tr>
<td>November 12</td>
<td>Veterans' Day observance - College closed</td>
</tr>
<tr>
<td>13</td>
<td>Last day to withdraw from an academic course</td>
</tr>
<tr>
<td>13</td>
<td>Registration begins for currently enrolled students for Spring 2013</td>
</tr>
<tr>
<td>22-24</td>
<td>Thanksgiving recess - College closed for energy conservation</td>
</tr>
<tr>
<td>26</td>
<td>Spring 2013 registration begins for all students</td>
</tr>
<tr>
<td>December 3</td>
<td>Last day to resolve INC grades from Spring &amp; Summer 2012</td>
</tr>
<tr>
<td>10</td>
<td>Classes end</td>
</tr>
<tr>
<td>11-17</td>
<td>Final exam period</td>
</tr>
<tr>
<td>24</td>
<td>College closed for energy conservation &amp; will reopen January 2, 2013</td>
</tr>
<tr>
<td>January 2</td>
<td>Final grades due to Registrar by Noon</td>
</tr>
</tbody>
</table>

#### Spring Semester 2013

<table>
<thead>
<tr>
<th>Date</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>January 1</td>
<td>New Year's Day observance - College closed</td>
</tr>
<tr>
<td>2</td>
<td>Preregistered students' Tuition and Fees are due</td>
</tr>
<tr>
<td>21</td>
<td>Martin Luther King Day observance - College closed</td>
</tr>
<tr>
<td>22</td>
<td>Final cancellation of low enrolled classes</td>
</tr>
<tr>
<td>23</td>
<td>Adjunct Faculty Orientation</td>
</tr>
<tr>
<td>24</td>
<td>Opening Day for Faculty &amp; Professional Staff</td>
</tr>
<tr>
<td>28</td>
<td>Classes begin</td>
</tr>
<tr>
<td>February 1</td>
<td>Priority filing date for May graduation</td>
</tr>
<tr>
<td>4</td>
<td>Last day to change a schedule</td>
</tr>
<tr>
<td>4</td>
<td>Last day to drop a course with no academic record</td>
</tr>
<tr>
<td>4</td>
<td>Last day to drop a course for 100% refund</td>
</tr>
<tr>
<td>11</td>
<td>Last day to drop a course for 50% refund</td>
</tr>
<tr>
<td>March 11-15</td>
<td>Spring recess</td>
</tr>
<tr>
<td>15</td>
<td>Patriots' Day observance - College closed</td>
</tr>
<tr>
<td>22</td>
<td>Fall 2013 registration begins for all students</td>
</tr>
<tr>
<td>April 1</td>
<td>Last day to withdraw from an academic course</td>
</tr>
<tr>
<td>1</td>
<td>Summer session registration begins</td>
</tr>
<tr>
<td>3</td>
<td>Professional Day observance - College Closed*</td>
</tr>
<tr>
<td>8</td>
<td>Registration begins for currently enrolled students for Fall 2013</td>
</tr>
<tr>
<td>May 2</td>
<td>Last day to resolve INC grades from Fall 2012</td>
</tr>
<tr>
<td>13</td>
<td>Classes end</td>
</tr>
<tr>
<td>14-20</td>
<td>Final exam period</td>
</tr>
<tr>
<td>23</td>
<td>Final grades due to Registrar by Noon</td>
</tr>
<tr>
<td>27</td>
<td>Memorial Day observance- College closed</td>
</tr>
<tr>
<td>29</td>
<td>Approval of Graduates</td>
</tr>
<tr>
<td>30</td>
<td>Commencement</td>
</tr>
</tbody>
</table>

#### January Intersession 2013 • January 7-25

#### June Intersession 2013 • June 3-21

#### Summer Session 2013 • June 24 - August 9

* Day classes cancelled. Classes starting at 3:30pm or after will run as scheduled.

Note: The College reserves the right to make changes in the published academic calendars. Students and staff will be notified if changes must occur. The above dates represent a traditional semester. It is the responsibility of the student to be aware of any special “due” dates associated with courses which do not fit into the traditional semesters.
Accreditation

Cape Cod Community College is accredited by the New England Association of Schools and Colleges, Inc. through its Commission on Institutions of Higher Education. Inquiries regarding the accreditation status by the New England Association should be directed to the administrative staff of Cape Cod Community College. Individuals may contact:

Commission on Institutions of Higher Education
New England Association of Schools and Colleges
209 Burlington Road • Bedford, MA 01730-1433 • 1-781-271-0022

The Nursing program is accredited by the National League for Nursing Accrediting Commission and has approval from the Massachusetts Board of Registration in Nursing. Individuals may contact:

National League for Nursing Accrediting Commission
3343 Peachtree Road NE, Suite 850 • Atlanta, GA 30326 • 1-404-975-5000 • www.nlnac.org

The Dental Hygiene program is accredited by the American Dental Association’s Commission on Dental Accreditation.

The Criminal Justice program is certified by the Massachusetts Department of Higher Education - Criminal Justice Program Review Committee.

The Early Childhood Education program is accredited by the National Association for the Education of Young Children (NAEYC).

The Cape Cod Community College Medical Assisting Certificate is accredited by the Commission on Accreditation of Allied Health Education Programs (www.caahep.org) upon the recommendation of the Medical Assisting Education Review Board (MAERB) of the American Association of Medical Assistants Endowment.

Commission on Accreditation of Allied Health Education Programs
1361 Park Street • Clearwater, FL 33756 • 1-727-210-2350

History of the College

Cape Cod Community College was established in 1961, the second institution to open as part of what is now a 15 community college system in Massachusetts that resulted from the persistent efforts of Senator Edward Carleton Stone.

Cape Cod Community College opened under the leadership of its first president, Irving Bartlett, in the building that is now the Barnstable Town Hall. One hundred sixty-six students from thirty-three communities enrolled in the College’s first class. There were five full-time faculty and six part-time instructors to greet them. These students were offered five terminal programs, as well as the transfer program. For the first two years, courses were offered in the evening in cooperation with the Massachusetts Division of University Extension.

In 1963, Cape Cod Community College’s first evening program found one hundred and thirty students enrolled in ten different degree credit courses. In the spring of 1963, the first summer session had enrolled one hundred and forty-five students from fifty colleges and universities taking degree credit courses.

Outgrowing its first home, in 1970 the College moved to its current location on 116 acres in West Barnstable, making it the first community college in the state to build a new campus. Under the direction of its second president, E. Carleton Nickerson, the College moved into five of the eight buildings designated in the master plan for the new campus.

In 2006, the College opened its doors to the Lyndon P. Lorusso Applied Technology building, a state-of-the-art teaching and learning facility and the first LEED (Leadership in Energy and Environmental Design) certified green building ever built with state dollars.

It might be tempting to say that those first students of 1961 could never have imagined Cape Cod Community College as it is today, but it would not be true. They had a vision which was stated in an unsigned article in the December 1965 issue of the school paper, The Beacon.

“Reputations will be earned, traditions will come, just so long as we don’t lose sight of the dream and the idea. In time, our graduates will earn their place in the Arts, in the Sciences and Industry. In time, we will look back with great pride on the fact that many traditions enjoyed by future enrollees were started by us. In time, Cape Cod Community College will be our greatest pride because we helped to build it.”

That vision is the legacy of the students at Cape Cod Community College.
Connecting to the College

Online: www.capecod.edu
Telephone: 1-508-362-2131 or
Toll Free 1-877-846-3672

Admissions Office.............................. ext. 4311
Adult Learner Services ............. ext. 4807, 4345
Advising & Counseling Center .........ext. 4318
Assessment Center.............................ext. 4543
Box Office .................................... ext. 4044
Bookstore ..................................... ext. 4022
Business Office ..............................ext. 4123
Career Services...............................ext. 4688
Disability Services .......................ext. 4337
Financial Aid Office ...................... ext. 4393
GED Test Center ..................... ext. 4450, 4678
Health Records ................................ ext. 4331
Hyannis Center ............................. ext. 5000
Human Resources ...........................ext. 4306
Library ..........................................ext. 4342
Life Fitness Center ...................... ext. 4368
Online Learning .............................ext. 4040
Registration .................................ext. 4711
Transfer Counseling ..................... ext. 4316
Tutoring Center .............................ext. 4352
Veterans Affairs ......................... ext. 4393
WERC ........................................  ext. 5010

Direct Dial:
Hyannis Center ......................... 1-508-375-5000
Online Learning ......................... 1-508-375-4040
Registration Office ................. 1-508-375-4012
TTY ............................................. 1-508-375-4027
Weather Hotline ..................... 1-508-375-4070

FAX: Main Campus ................. 1-508-375-4020
FAX: Registration ................. 1-508-375-4084

Información en Español: 1-508-375-4091
Informação em Português: 1-508-375-4092

The College in Brief

Degrees Offered
The College offers Associate in Arts and Associate in Science degrees, and certificates in a variety of program areas. Advanced degrees are offered in partnership with other colleges and universities. Refer to page 17 for information on Bachelor's and Master's Degrees.

The Students
Approximately 4000 students enroll at the college each semester. Students range in age from 16 to 80, about 60% of the students are female, 17% are students of color, and 44% are 25 years of age or older. 84% of our students matriculate in a degree or certificate program and approximately 60% attend part-time.

The Faculty
Of the 65 full-time faculty members teaching at the college, approximately 70% are women, 15% are educators of color while 35% hold Doctorates and 65% hold Master's degrees in their area of expertise. More than 260 part-time adjunct faculty with specialized knowledge and expertise contribute to the College’s commitment to excellence.

Location
The main campus (West Barnstable) is located just off the Mid-Cape Highway, north of Exit 6 (the junction of Routes 6 and 132). The Hyannis Center is located at 540 Main Street in downtown Hyannis.

Mission Statement
The students’ education is the first priority at Cape Cod Community College. As a learning-centered community, we value the contributions of a diverse population, welcome open inquiry, and promote mutual respect. The College offers a strong educational foundation of critical and creative thinking, communication competency, and a global, multicultural perspective that prepares students for life and work in the 21st Century. Our liberal arts, sciences, and career programs provide educational pathways that serve the varied social, economic, and demographic characteristics of our community with a distinctive focus on sustainability. We honor our past, celebrate our present, and imagine our future.
Admissions Policy

Cape Cod Community College admits applicants to degree and certificate programs according to the Massachusetts Department of Higher Education’s “Open Door” philosophy. Each applicant is accepted to the College, on a rolling, first-come basis, if the applicant meets the eligibility requirements, has completed the application procedures, and a vacancy exists in the applicant’s elected program of study. This policy does not apply to the College’s selective health programs. Refer to information on the selective health programs on page 7.

Eligibility Requirements for Admission

To be eligible for admission, an applicant must have graduated from an approved secondary school (high school) or received a state-issued high school equivalency certificate (GED), prior to enrollment. Applicants who have not graduated or earned a GED should contact the Admissions Office to discuss their options.

Three Easy Steps to Enroll in a Degree or Certificate Program

1. Submit a completed application form to the Admissions Office by the priority filing dates of: August 15 for the Fall semester / January 10 for the Spring semester
2. Submit official high school transcripts/GED diploma ONLY if you:
   - Are a current high school senior, or
   - Have not yet completed your GED coursework or examinations at the time you submit your application, or
   - Are an applicant to a selective health program (Nursing, Dental Hygiene, Diagnostic Technician, Massage Therapy, Medical Assisting, and Paramedic), or
   - Are an international applicant requiring an F-1 visa
3. Submit official transcripts from all colleges or universities ever attended.

Home Schooling Policy: All home schooled students, without a high school diploma or GED, are eligible to apply for admission to a degree or certificate program provided they have successfully completed an approved home school program in accordance with Massachusetts General Laws or the laws of their home state. To determine whether a student has participated in an approved home school program, the student shall submit, with the application for admission, evidence that the home school program was approved by the student’s school district’s superintendent or school committee. Additionally, if the home schooled student is under the age of compulsory attendance, which is sixteen (16) years old in Massachusetts, a letter from the student’s school district’s superintendent or school committee is required stating that the student is not considered truant and would not be required to attend further schooling or continue to be home-schooled if the student has completed his/her home school program before the age of sixteen (16).

The College reserves the right to limit or deny enrollment of any student under the age of sixteen (16) in a course or program based on a case-by-case consideration of a variety of factors, including but not limited to: the student’s maturity, life experience, placement test scores, prior education, course content, instructional methodology, and potential risks associated with participation in a particular course or program.

Transfer Applicants must submit official transcripts from all colleges and universities ever attended. Previous college performance will not impact admission to non-selective programs. Upon acceptance to the College, the Registrar’s Office will conduct a transfer credit evaluation of previous college-level course work and notify students, in writing, of accepted transfer credit. Refer to page 8 for the College’s transfer credit policy.

Permanent Resident Aliens must include their alien registration number on the Admissions application.

Applicants in the Process of Applying for a Green Card must submit either a Notice of Action form verifying their application for a green card or a letter from an attorney verifying application in process.

International Applicants: Additional documentation, criteria, and deadlines apply to international applicants seeking an I-20 form for an F-1 visa. Please contact the Admissions Office to receive an International Student Packet or download the necessary forms at www.capecod.edu/web/admissions/requirements/international. This packet explains the additional admission requirements and contains additional forms that must be completed for consideration. Application deadline dates are May 1 for the Fall semester or October 1 for the Spring semester.

Non-Degree Seeking Students who do not intend to receive a degree or a certificate from Cape Cod Community College do not need to apply for admission. However, financial aid is NOT available to any student who has not applied for admission and enrolled in a degree or a certificate program. Non-degree seeking students can meet with advisors in the Advising and Counseling Center to help select the appropriate courses. Then, students can register for their desired courses at the Registration Office.

Re-admission to the College: Students who had once applied to the College and enrolled, but are no longer “matriculated” due to:
   a. graduation from the College, or
   b. an unenrolled status for two consecutive years,
   must re-apply to the College to determine whether or not they need to resubmit their high school and college transcripts. If a student is re-admitted to the College or changes his/her degree or certificate program, the graduation requirements are those in effect on that date. Students who do not register for classes at the College after two consecutive semesters, exclusive of summer, will be required to see an advisor prior to registration.

Academic Dismissal: Refer to page 27.
Returning to the College after Withdrawing: Students who once officially withdrew from the College, but are still considered "matriculated" may simply register for courses and resume their studies. Students who once officially withdrew and are no longer considered “matriculated” due to an unenrolled status for over two years may re-apply through the Admissions Office. Re-applicants must check with the Admissions Office to determine whether or not they need to resubmit their high school and college transcripts. If a student is readmitted to the College or changes his/her degree or certificate program, the graduation requirements are those in effect on that date.

Fresh Start Option: Refer to page 28.

Selective Health Program Applicants: Applicants interested in applying to the Nursing, Dental Hygiene, Massage Therapy, Diagnostic Technology, Medical Assisting, or Paramedic programs at Cape Cod Community College must complete additional requirements and will be considered for their program of choice on a selective basis.

Interested applicants may obtain detailed requirement listings for the Nursing, Dental Hygiene, Medical Assisting, Paramedic, and Massage Therapy programs in the Admissions Office. Applicants to the Nursing and Dental Hygiene programs are encouraged to attend an information session. Massage Therapy, Medical Assisting, and Paramedic students must attend an information session. Schedules of upcoming information sessions are available at the Admissions Office, Diagnostic Technology and Tri-level Nursing Assistant / Home Health Aide applicants should call 1-508-362-2131, ext. 4452 to sign up for a required information session and interview.

Criminal Offender Record Information and Sex Offender Registry Information Checks: In order for a student to be eligible to participate in an academic, community or clinical program that involves potential unsupervised contact with children, the disabled, or the elderly, the student may be required to undergo a Criminal Offender Record Information (CORI) check and/or a Sex Offender Registry Information (SORI) check. Students found to have certain criminal convictions or pending criminal actions will be presumed ineligible to participate in such activities. The College is authorized by the Commonwealth’s Department of Criminal Justice Information Services, pursuant to Massachusetts General Laws, Chapter 6, Sections 167-178B, to access CORI records. Sex Offender checks shall be performed pursuant to Massachusetts General Laws, Chapter 6, Sections 178C-178P.

For more information regarding the College’s CORI/SORI check process, please contact the Dean of Enrollment Management and Advising Services at 1-508-362-2131, ext. 4315.

Dual Enrollment Program: High School Students Taking College Courses

Consistent with the mission of the Department of Higher Education, Cape Cod Community College seeks to work closely with area high schools. Qualified high school students can earn both high school and college credits through the Dual Enrollment Program, authorized in the Education Reform Act of 1993. Eligible students will be either in their junior or senior year and be at least 16 years of age, have a GPA of 3.0 or better, and be recommended by their teacher, guidance counselor or principal. An alternative Dual Enrollment program is available for those who have a 2.0-2.9 grade average, who are recommended by a school representative, and who demonstrate the ability to do college-level coursework by scores received on the Computerized Placement Test administered at the College. For the past several years Cape Cod Community College has been eligible to participate in the Commonwealth Dual Enrollment Program, administered by the Massachusetts Department of Higher Education. This program provides limited grant funding to pay tuition and fees for one course for a small group of eligible high school students. For further information, contact the Admissions Office at 1-508-362-2131, ext. 4311.

Secondary Post Secondary Career Vocational Technical Education Linkage Consortium (CVTE)

Students are eligible to enroll in specific courses in their high school to earn college credit through articulated agreements. High school students who successfully complete these articulated courses may be eligible to be awarded the credit once they earn additional college credit at Cape Cod Community College. Students in Consortium member schools are eligible for this program. Articulated CVTE credits are posted on the students’ Cape Cod Community College transcript once all requirements have been met. Funding for this program is provided by allocations to the College from the Massachusetts Department of Elementary and Secondary Education (DESE) through the Carl Perkins Vocational and Technical Education Act of 1998. For more information, call 1-508-362-2131, ext. 4353, visit www.capecod.edu/web/k12/tech_prep or visit the CVTE Linkage, Tech Prep office located in South 234.

The College Connection Program: Access, Support & Choice

The College Connection Program (CCP) at Cape Cod Community College is an outreach program that aims to increase the percentage of area high school graduates who pursue a college education. CCP is designed to raise individual awareness and expectations about college options, provide equal access to college and reduce educational barriers by offering college readiness testing and enrollment services to all seniors on-site at our partner high schools. For more information, contact The College Connection Program at 1-508-362-2131 ext. 4006 or email: CollegeConnectionProgram@capecod.edu.
Admissions

Transfer to Cape Cod Community College

Transfer credit to the College is determined on an individual basis using these guidelines:

- Only comparable course work from an accredited institution or a college which is a candidate for accreditation will be eligible for transfer credit;
- College Level Examination Program (CLEP) credits will be accepted in accordance with College policy;
- Only grades of C (2.0 on a 4.0 scale) or better will be considered for transfer;
- Transfer credits will be accepted in the number established for that course by the college at which those credits were earned. If the transferring institution uses a credit system different from that of the College, the Registrar of Cape Cod Community College will convert the credits;
- In most cases, credits will be accepted without a time limit from any regionally accredited institution. In certain courses where a program or a department requires that current knowledge is essential, a time limit may be imposed on the applicability of earned credit toward satisfying a degree requirement; such a time limit must be approved by the Curriculum and Programs Committee, and must be indicated in the catalog of the College. If the designated time limit has been exceeded, credit will be granted in either of the following circumstances:
  - a. the student successfully passes a CLEP test for the course or, in the absence of a CLEP test, passes a Department Challenge Examination, or
  - b. the student submits a waiver request and receives approval from the appropriate department;
- A minimum of 24 credits must be completed at Cape Cod Community College in order to earn a degree.
- MassTransfer students transferring from participating Massachusetts community colleges, state colleges or universities to Cape Cod Community College are guaranteed transfer of credits through MassTransfer, the new transfer program for the state of Massachusetts. Students who complete the 34-credit MassTransfer block (see page 16 for more details about MassTransfer or go to www.mass.edu/masstransfer) at any of the participating institutions with a 2.0 or higher GPA will be guaranteed the full-transfer of those credits into an Associate in Arts degree. The CCCC General Education requirements will be satisfied by the 34-credit MassTransfer block.

Students transferring into an Associate in Science degree will satisfy the 21-23 credits of General Education requirements unless a specific A.S. degree requires coursework that is not in the student’s 34-credit MassTransfer block. MassTransfer block credits that do not satisfy General Education requirements may be used to satisfy general education electives or unspecified elective credits in an Associate in Science degree.

The MassTransfer block consists of the following 34 college-level credits:
- 6 credits in English Composition/Writing
- 9 credits in Behavioral and Social Sciences
- 9 credits in Humanities and Fine Arts
- 7 credits in Natural or Physical Science
- 3 credits in Mathematics/Quantitative Reasoning

Science Transfer Credits

Students who are transferring in credits for science courses that do not fit the traditional four-credit format (3 credits lecture, 1 credit laboratory) may be permitted to take only the laboratory portion of a Cape Cod Community College science course that closely matches the transferred course. Refer to Laboratory for Transfer Students, page 170, for a detailed description of the conditions that must be met in order to enroll in one of these special laboratory sections.

Basic Skills Assessment

Although Cape Cod Community College has an open admission policy, appropriate skill levels are needed for success in any program of study and are prerequisites to enrollment in many introductory courses at this college. Therefore, the College administers skills assessments in English, reading, and mathematics. Matriculated students are required to take these skills assessments as part of their scheduled assessment/advising/registration appointment prior to their first semester of classes. During this appointment each student meets with an academic advisor to develop an appropriate academic plan. Students are advised to select and schedule appropriate academic courses based on their assessment results and individual circumstances. Students may retest in one or more subject areas (English, Reading, and Math) one time only. Non-matriculated students who wish to enroll in courses that have an identified prerequisite skill level are required to take the skills assessment test before registering for the class. Students may enroll only in courses for which they are able to demonstrate the required entry level competency. Cape Cod Community College will provide appropriate developmental courses and experiences for students who have demonstrated need in English, reading, and mathematics. Developmental education courses, although credit bearing, may not be used to fulfill associate degree requirements. Test results remain valid for three years. Students are required to re-take the skills assessment unless current (less than three years old), valid, comparable information is available.

The Assessment Center is located in the Grossman Commons.

Immunization Requirements - Refer to page 14.
Tuition and Fees

Tuition and Fees Policy
The financial requirements of the College, changing costs, state and legislative action, and other circumstances may require adjustments in the tuition and fees stated. The College reserves the right to make such adjustments in these charges as may from time to time be required by the Department of Higher Education or the Board of Trustees. All obligations to the College must be paid prior to the beginning of classes each semester. The full-time tuition and fees listed here are based upon 30 credit hours of enrollment per year.

Full-time Tuition and Fees (per year)*
- Massachusetts residents $4,830.00
- Non-residents $11,010.00

Part-time Tuition and Fees (per credit hour)*
- Massachusetts residents $161.00
- Non-residents $367.00

*Tuition and Fees are subject to change by vote of the Department of Higher Education and/or the Cape Cod Community College Board of Trustees. For the most current information on tuition and fees visit www.capecod.edu/web/academics/tuition.

Other Fees
Allied Health students drug test fee $50
Assessment retest fee $7 per test
Books and supplies (estimate) $1000-$1200 per year, full-time
Dental Hygiene Program fee $100 per year
Health Insurance $1049 per year (9 credits or more)
Nursing Program fee $400 per year
Paramedic Fee $150 per year
Technology Fee $40.00 per semester

Other courses may also require special fees.

Past due accounts are referred to collection agencies and to the State for tax intercept. Past due accounts will be charged legal fees, plus collection company fees and other costs. Collection costs can be as high as 40% of the past due balance.

Tuition Waivers
Massachusetts residents may be eligible for tuition waivers under the following categories:
- a recipient of either the Adams Scholarship or the Stanley Koplik Certificate of Mastery for MCAS achievement
- a surviving child or spouse of the September 11, 2001 tragedy

Tuition waivers cover the amount of tuition only, which is approximately 15% of the class price. Recipients are responsible for all remaining class fees. Specific guidelines for waivers are described under Eligibility Requirements on page 11. Applications are available in the Financial Aid Office.

Veteran's Benefits and Services
Cape Cod Community College welcomes and appreciates our veterans. The College has VA approval for educational training of veterans and their dependents. The Veterans Affairs Office is part of the Financial Aid Office. Veterans receive assistance in obtaining educational benefits such as tuition waivers and monthly GI Bill education payments. The office provides application materials, contact information, and certifies enrollment. If a veteran has earned college credits at other institutions, the Registrar's Office evaluates all transcripts, CLEP, and DANTES test results promptly to facilitate class selection.

The Commonwealth of Massachusetts provides its Veterans, National Guard members, and Active Duty military stationed in Massachusetts with tuition waivers. For Veterans and Active Duty military, the waiver is approximately a 15% discount on each class. MA National Guard members may receive full tuition and fee coverage.

Under the Montgomery GI Bill, many veterans receive financial assistance through the VA. Assistance may be in the form of tuition, fees, books, and monthly living stipends. The amount varies with each veteran's situation and with the number of credits per term. Spouses and children of disabled or deceased veterans may also qualify for monthly education payments. The College also participates in the VA Vocational Rehabilitation program.

The VA provides an online application for benefits at www.gibill.va.gov. Veterans should apply for a degree or certificate program through the Admissions Office. Once registered, the Financial Aid Office will certify and monitor enrollment.

Massachusetts National Guard Reimbursements
If you serve in the Massachusetts National Guard, you may be eligible for 100% tuition and fee reimbursement. Request a Certificate of Eligibility online at mro.chs.state.ma.us, then submit it to the Financial Aid Office.

Tuition Refund Policy
Students who withdraw from classes may be due a refund of all or a portion of their tuition and fees. Please check with the College Business Office regarding the status of your account. Full refund of tuition is usually allowed before classes start and a pro-rated refund after the beginning of the semester. The complete Tuition Refund Policy can be found online at www.capecod.edu/web/busoff. Financial aid funds will be paid based on the number of days enrolled. Withdrawing during the first nine weeks of the semester will impact the amount of funds available to pay tuition and fees.

Disclosure of Cost and Price to Students
Students who attend Cape Cod Community College and other public higher education institutions receive a generous subsidy of their cost of education through state appropriation. This state support significantly reduces the cost of tuition and fees. Additionally, many needy students receive financial aid awards to further reduce their costs.

The following is an example of the net expense for a Massachusetts resident taking 30 credit hours over two semesters beginning Fall 2012. Individual costs will vary depending on each student's particular circumstance.

- Full Operating Cost per Student (estimate) $11,546
- State Operating Subsidy (estimate) - 6,636
- Tuition and Mandatory Fees $ 4,910
- Student Financial Aid (average) - 2,569
- Net Student Cost $ 2,341

In addition to the state subsidy and student financial aid, many students benefit from federal income tax credits for tuition paid. Tax credits are based on the tuition and fees not paid by grants, scholarships, or waivers. Tax credit amounts cannot exceed tuition and mandatory fees. The 2011 federal tax credit limits are $2500 American Opportunity Tax Credit, $2000 Lifetime Learning, and $4000 Tuition and Fees Deduction. Tax credits do not reduce the initial cost to attend college, but are instead a reimbursement of tuition paid.

Student financial aid in this illustration includes all federal and state grants and tuition waivers that may be applied directly to the College's tuition and fees. Tuition and fees reflect the cost of the courses; it does not include health insurance or other miscellaneous fees. Questions regarding Cape Cod Community College's cost and financial aid should be addressed to the Business Office and/or Financial Aid Office.
Sources of Assistance
Student financial aid provides monetary assistance to help many students pay for educational expenses. There are three basic categories of financial aid available:

- Grants and scholarships--forms of assistance that do not have to be repaid;
- Work Study--part-time employment at the College allows students to earn funds;
- Loans--repayment of most loans begins after the student is no longer enrolled in classes

The following financial aid programs are available at Cape Cod Community College.

Federal Aid

Federal Pell Grant
Pell Grants are federal funds which do not have to be repaid. The maximum grant for 2012-2013 will be $5550 per academic year. The amount of the grant varies according to federal need calculations and the student's enrollment.

Federal Supplemental Education and Opportunity Grants (SEOG)
The Financial Aid Office awards SEOG to those students who qualify for the Federal Pell Grant and who demonstrate the greatest financial need. Generally, awards range from $200 to $1000 per year. This grant does not have to be repaid. The limited funds are awarded on a first-come, first-served basis.

Federal Work Study (FWS)
FWS is a federal program which allows students with financial need to work on campus. Students work an average of ten hours per week and in return receive a paycheck every other week. Most students will earn up to $2400 per academic year. Recipients must be enrolled at least half-time.

Federal Direct Stafford Loan Program
This loan program, which requires at least half-time enrollment, is available in two forms: subsidized and unsubsidized. Subsidized loans are dependent upon financial need and are limited to $3500 for students who have earned less than thirty graduation credits (first-year students). Second-year students with thirty or more graduation credits may borrow up to $4500. Subsidized loans have deferred repayment and do not accrue interest while students are enrolled at least half-time and for six months after dropping below half-time status. Unsubsidized loans are also available and provide up to an additional $2000-$6000 to qualifying students. Unsubsidized loans accrue interest while the student is in school. Detailed information on Direct loans is available from the Financial Aid Office.

Federal Parent Loan for Undergraduate Students (PLUS)
Parents borrow this education loan on behalf of a child enrolled at least half time. PLUS is available each year for the cost of education less any other financial aid the student receives. Parents begin to repay this loan while the student is in school. For more information on interest rates and credit qualifications, please refer to www.studentloans.gov.

State Aid

MassGrant - The State Office of Student Financial Assistance awards these need-based grants to Massachusetts residents enrolled full-time. Applications must be received by May 1 prior to the start of the school year (May 1, 2012 for the 2012-2013 academic year). This grant of up to $800 per academic year does not have to be repaid.

MA Access Cash Grant - The Financial Aid Office awards these funds to Massachusetts residents, enrolled at least half-time, with financial need. Amounts vary, but will not exceed the cost of tuition and fees. Funds are awarded on a rolling basis. This grant does not have to be repaid.

MA Part-time Grant - These awards are provided to students who qualify for the Federal Pell Grant and who enroll in 6 to 11 credits per semester. The amounts range from $200 to $450 per year, are awarded on a rolling basis, and do not have to be repaid.

MA Need-Based Tuition Waiver - These funds are for Massachusetts residents who have demonstrated financial need and who are enrolled in state-supported classes (sections 1-39). The Financial Aid Office determines the amount, but the award will not exceed the cost of state tuition. Waivers do not have to be repaid.

Categorical Tuition Waiver - Tuition waivers are available for the categories listed on page 9. Tuition is approximately 15% of the class price. Recipients must reside in Massachusetts for the 12 months prior to the start of school. Recipients cannot be in default on federal or state education loans. Apply in the Financial Aid Office.
Financial Aid

College Aid

CCCC Gap Fund
The College Financial Aid Office awards these funds to needy students who may not qualify for federal or state grants. Award amounts vary and require at least half-time enrollment. To apply, complete the Free Application of Federal Student Aid (FAFSA). The Gap Fund does not require repayment.

College Scholarships and Grants
Each Spring the Cape Cod Community College Educational Foundation awards scholarships to incoming, continuing, and graduating students. Recipients are selected based on criteria established by the scholarship donors and the academic qualifications of the applicants. Applications are available throughout the campus in March. The scholarship amounts vary.

Whitehouse Scholarship
This fund is used to provide assistance to the Evening Nursing program and the LPN in Transition course. Apply by completing the Free Application for Federal Student Aid (FAFSA). Other students with exceptional circumstances may receive awards at the discretion of the Financial Aid Director.

Eligibility Requirements
To be considered for the financial aid programs listed here, students must meet all of the requirements below:

- be a United States citizen or eligible non-citizen,
- be accepted into a College degree or qualifying certificate program,
- be enrolled for the appropriate number of credits per semester. Most aid programs require at least half-time enrollment (six credits per semester), Exceptions: some Federal Pell recipients receive the funds for only one class; the MassGrant program requires full-time enrollment (twelve or more credits),
- maintain satisfactory academic progress as outlined on the College’s website,
- not be in default or owe a refund on any federal grant or loan programs,
- provide all documentation required to complete the financial aid application, and
- demonstrate financial need for those programs awarded based on need.

Students should note that certain short-term certificate programs do not qualify for financial aid. Contact the Financial Aid Office to confirm that your certificate program is eligible.

Financial need is defined as the cost of education minus a family contribution assessed from your application. The contribution is calculated using the Federal Methodology approved by the United States Department of Education. It considers total family income, family size, the number of family members in college, and certain family assets. For most students under the age of 24, the federal formula requires both the student's and parents' financial information. If you or your family would like any special financial circumstances taken into consideration, please inform the Financial Aid Office.

Application Procedures
Students must complete the Free Application for Federal Student Aid (FAFSA) for all federal and state grant, work study, and loan programs. The form is available online at www.fafsa.gov in English or Spanish. Complete the form after January 1, 2012, for the 2012-2013 academic year. While the College accepts applications throughout the academic year, students should apply before May 1 for the Fall semester to allow sufficient processing time. The application process takes approximately two to four weeks.

The federal aid processing center selects some students for a process called income verification. The Financial Aid Office contacts these students requesting additional documentation. Some students may also be asked to provide additional information to resolve discrepancies in their aid applications.

Loan programs require that students complete “entrance counseling” and a separate loan promissory note. Details are available in the Financial Aid Office.

Notification of Awards - Students receive an award letter providing the details of their financial aid package once their file is complete. The letter lists the source and amount of each type of assistance for which the student qualifies. Award letters usually begin to be mailed starting in May for the Fall semester.

Disbursement of Funds - Grants, waivers, scholarships, and loans are disbursed toward tuition, fees, and other charges approximately six weeks into the semester. If the total aid exceeds the charges, the Business Office mails a check to the student for the excess funds.

Federal Work Study checks are issued directly to the student every other week according to the number of hours worked.

If a student withdraws or is reported as absent in all classes, the amount of financial aid disbursed may need to be refunded. Recipients earn financial aid based on the total days attended. Students must attend beyond the 60% point in the semester (beyond 9 weeks) to earn all financial aid.
Academic Support Services

Students enrolled in credit courses may take advantage of the following services to assist them with the successful completion of their course work.

The Tutoring Center provides students academic support to help them succeed at Cape Cod Community College. Tutors provide assistance in a variety of subjects in one-to-one and small group settings. The Tutoring Center is located in Lorusso G-01. Contact 1-508-362-2131, ext. 4352 for more information.

The Math Learning Center is available to students who want to study in small groups; work on mathematics homework with assistance available; clear up a specific problem; work with a tutor; or, refer to other textbooks covering similar information. The Math Learning Center, located in Science 112, is staffed by math faculty, professional tutors, and peer tutors.

eTutoring: The College participates in an online tutoring program, giving students access to online tutoring every day in math, writing, accounting, statistics, research, and the life sciences. This service is offered free of charge to students enrolled in credit courses. For more information call 1-508-362-2131, ext. 4352 or go to www.capecod.edu/eTutor.

Workshops are conducted on the preparation of research papers, study skills, note taking, time management, overcoming math anxiety, the transfer process, positive thinking through humor, and test-taking skills.

Academic Advising

Academic advising is an important component of the college experience that contributes significantly to student success. Academic advisors assist students in the development of meaningful educational plans that are compatible with the student’s goals and abilities. In addition to academic planning, advisors inform students about college programs, courses and policies, recommend campus resources, and discuss academic concerns. However, the ultimate responsibility for making academic decisions rests with the individual student. In an effort to help students better reach their goals, all matriculated students are required to meet with their assigned academic advisor prior to registering for classes. Students are assigned to an advisor who may be a faculty member, a professional advisor, or the Advising Center.

The Advising and Counseling Center, located on the second floor of the Grossman Commons Building, Room 203C, is available on a walk-in basis to students who have been assigned to the Center, or to students seeking guidance and support. If you are assigned to the Advising Center, that means you can work with any of the professional advisors that work in the Center. For more information, call 1-508-362-2131 ext. 4318 or www.capecod.edu/web/advising.

Accelerated Career Training

Accelerated Career Training (ACT), a Massachusetts Community College Workforce Development Transformation Agenda (MACCWDTA) program, assists unemployed or underemployed adults in acquiring training and credentials in specified career disciplines to obtain gainful employment. The program collaborates with the local Career Center to assist adults in combining prior jobs skills and training leading to certificates and/or college credits which may be applied towards a future degree. ACT provides a Career Navigator to facilitate communication between the Career Center, CCCC, and eligible applicants, along with a designated Career Advisor to assist and guide participants in developing a strategic career plan. Specialized training programs may be developed and offered as regional employment needs are demonstrated. Program staff guide and mentor participants as they progress towards program completion, and may assist with internship linkages, job placement and job retention. MACCWDTA is funded by the Department of Labor. For more information contact the ACT/MACCWDTA Career Advisor at 508-362-2131 ext. 4652 or the Advising Center ext. 4318.

Advantage/TRIO/SSS Program

The Advantage/TRIO/SSS Program is a Student Support Service program that offers many enriching services to its students. The staff includes counselors, tutors, and peer mentors who understand academic challenges that college students face when completing a two-year degree. There is an eligibility requirement for students to participate in this program. For those students who qualify, free services include: individualized tutoring, career and transfer counseling, academic advising, transfer trips to state colleges, specialized workshops, career preparation, academic planning, and group tours to museums and cultural arts events. The Advantage/TRIO/SSS Program also co-sponsors specialized workshops that include: Time Management, Resume Writing, Study Skills, How to Write a Research Paper, and many more.

For over twenty years, the U.S. Department of Education has awarded Cape Cod Community College a grant to service a select group of students who make up the Advantage/ TRIO/SSS Program, and we are honored to serve them. The program helps students adjust to college life and prepares them for academic success. The Advantage/ TRIO/SSS Program office is located in South 221. For more information, call 1-508-362-2131, ext. 4321.

Assessment Center

The Assessment Center, located in the Grossman Commons building, administers the College’s basic skills assessment program. The Center also schedules and administers: CLEP (College Level Examination Program), GRE (Graduate Record Exams, subject only), and MBTI (Meyers-Briggs Type Indicator Tests). The Center offers students and faculty other assessment resources, such as learning styles workshops, learning and study skills inventories, and reading style inventories. For more information, call 1-508-362-2131, ext. 4543.

Career Services and Experiential Learning

Career Services and Experiential Learning (CSEL), located in South 229, provides a variety of services for students, including career development counseling, for undecided students, and job search preparation; résumé and cover letter writing, interviewing skills, networking, and the use of technology and social media in career placement. Internship and co-op information, as well as placement assistance, is also available. CSEL handles coordination
of the Prior Learning Assessment (PLA) process, through which students can earn credit for prior learning from life experience. The Student Employment Office also provides drop-in resume critiques and provides opportunities to connect with employers at on-campus events. For more information visit our web site at www.capecod.edu/career.

The Children's College
The Children's College is a small friendly school dedicated to making your child’s school experience warm and positive. We provide the structure and program flexibility to meet the needs of your child. Our small size allows us the chance to know you and your child as individuals, allowing for an open communication between home and school.

The Children's College is professionally staffed. Children from 2 years 9 months to 6 years of age are eligible for enrollment in the preschool program. The Children's College is open from 7:15am-5:15pm and is located in the Life Fitness Complex, lower level. For more information, call 1-508-375-4164 or 1-508-362-2131, ext. 4164.

Coaches & Mentors
Coaches & Mentors is a comprehensive student support services program that provides assistance to students from the first day they arrive on campus to the day they graduate. Services include tutoring, academic advising, career counseling, study skills instruction, workshops, and preparation to launch a successful job search. This program is especially beneficial for adult re-entry students, students with disabilities, students with limited English proficiency and for students who were enrolled in a non-college bound concentration in high school.

For over twenty-five years, Coaches & Mentors has helped students develop a positive connection to community college life. The program prides itself on supporting each student to reach his/her potential through a caring and supportive environment. Funding for this program is provided by allocations to the College from the Massachusetts Department of Elementary and Secondary Education (DESE) through the Carl Perkins Vocational and Technical Education Act of 1998. For more information, call 1-508-362-2131, ext. 4353 or online at www.capecod.edu/web/ntradcareers.

Life Fitness Center
The Life Fitness Center provides the opportunity and environment to develop and practice positive health, fitness and recreational behaviors. The Center fosters programming consistent with the stated needs and interests of the student body and the general College community. The Center offers academic courses, individual and group intramural, extramural activities, fitness training facilities and instruction, special interest clubs, and College/Community recreational opportunities. The Life Fitness Center is located on the lower level of the Life Fitness Center Complex. For more information call 1-508-362-2131, ext. 4368.

Nontraditional by Gender Careers
The College promotes career choices that follow a personal vision and that are based on one’s unique individual interests and abilities, free from gender stereotyping or any other limiting expectations. The College embraces diversity in all aspects that define us as human beings, including race, ethnicity, language, disabilities, income, as well as gender. The aim is to foster equitable opportunities in education, the workplace, and the community at large, support students in career programs that are nontraditional for their gender, and ensure that all students meet learning goals for critical and creative thinking, communication competence, a global multicultural perspective, with specific emphasis in mastering skills in mathematics, science, and technology. Funding for this program is provided by allocations to the College from the Massachusetts Department of Elementary and Secondary Education (DESE) through the Carl Perkins Vocational and Technical Education Act of 1998. For more information, call 1-508-362-2131, ext. 4775 or visit www.capecod.edu/web/ntradcareers.

O'Neill Center for Disability Services
The O'Neill Center for Disability Services offers assistance to students with documented physical, neurological, psychological, and/or learning disabilities. The Center works collaboratively with faculty and other campus resources to provide a wide range of support services which may include extended time testing, academic counseling, extended tutoring, note taking, adaptive computer software, exam modifications and access to specialized cognitive training software, that can improve brain efficiency and functioning. Students are encouraged to meet with a disability specialist before the start of their first semester to develop a support services plan. For assistance, call 1-508-362-2131, ext. 4337 or visit the O’Neill Center located in South 222.

Transfer Office
Students who plan to transfer are encouraged to meet with the Transfer Advisor as well as with their assigned advisor, to schedule courses at the College which meet the Freshman and Sophomore requirements of Bachelor’s programs at transfer institutions. The Transfer Advisor is also available to assist students with all facets of transfer, beginning with the exploration of transfer institutions through the application process. The Transfer Advisor is located in the Grossman Commons, Room 206-E and can be reached at 1-508-362-2131 ext. 4316.

Cape Cod Community College participates in the MassTransfer Program. MassTransfer is a single, streamlined policy to simplify the transfer process clearing the way for greater student access and success. For more information about MassTransfer, please see page 16.

Wilkens Library
The Frank and Maureen Wilkens Library is an attractive, four-story building located between the Nickerson Administration building and the South classroom building. The library’s collections include books, reference materials, journals, local and national newspapers, E-resources, video recordings, DVDs, and other audiovisual materials. The William Brewster Nickerson Cape Cod History Archives house an extensive Cape Cod history collection, including ship’s logs, diaries and other manuscript material. The Wilkens Library provides students access to online indexes and full-text databases, containing articles from thousands of scholarly and professional journals and newspapers in all disciplines. The Library is a Cooperating Collection of the Foundation Center. The facility provides computers, listening and viewing rooms, areas for quiet study, and a networked classroom for information literacy instruction. The professional and highly qualified staff are readily available to help library patrons locate materials and information for class assignments and research, access computerized information resources, borrow materials from other libraries, and utilize audiovisual information and equipment. Librarians actively work with faculty to provide information literacy instruction to students and the community.
Absence Due to Religious Beliefs
Under the Massachusetts General Laws, Chapter 151C, any community college who cannot attend class or take an exam, study or fulfill work requirements on a particular day, due to his/her religious beliefs shall be excused from such obligations. The student must be provided with an opportunity to make up such exam(s), study or work requirements; provided, however, that such make-up exam(s) or work does not create an unreasonable burden upon the institution. The student may not be charged for such make-up opportunities, nor may he/she be subject to adverse or prejudicial effects for availing him/herself of the provisions of the law.

Affirmative Action
Cape Cod Community College is an Affirmative Action/Equal Opportunity employer. We encourage applications from individuals who will enrich and contribute to the cultural and ethnic diversity of our College. Cape Cod Community College does not discriminate on the basis of race, color, national origin, sex, disability, religion, age, veteran status, genetic information or sexual orientation in its programs and activities as required by Title IX of the Educational Amendments of 1972, the Americans with Disabilities Act of 1990, Section 504 of the Rehabilitation Act of 1973, Title VII of the Civil Rights Act of 1964 and other applicable statutes and College policies. Cape Cod Community College prohibits sexual harassment, including sexual violence.

Inquiries concerning the application of anti-discrimination laws may be referred to the Affirmative Action Coordinator, Title IX Coordinator, Coordinator of Disability Services, the Massachusetts Commission Against Discrimination or the United States Department of Education’s Office for Civil Rights.

Inquiries may be directed to:
Affirmative Action Office
1-362-2131, ext. 4306
O’Neill Center for Disability Services
1-508-362-2131, ext. 4337
Title IX Coordinator
1-508-362-2131, ext. 4618

Filing Complaints
For purposes of filing federal charges of discrimination under Title IX of the 1972 Educational Amendments, Section 508 of the 1973 Rehabilitation Act, or Title VI of the 1964 Civil Rights Act, students may contact:
Federal Office for Civil Rights
McCormack Post Office and Court House
Post Office Square
Boston, MA 02109

Campus Safety Disclosure
In accordance with the Student Right to Know Act (Title 1 of Public Law 101-542), the Campus Crime Report is available upon request from the Department of Public Safety.

Computer Literacy
Students are advised that basic computer literacy is needed at CCCC. Students will need to know how to navigate their student email accounts and the Internet. Students may need to utilize the College’s website, access online course sites, take online assessments, and use computer applications in their courses. The College offers classes, workshops, and tutoring to help students learn more about working with computers.

Immigration and Naturalization
Under the Massachusetts General Laws, Chapter 15A, Section 9, public institutions of higher education in the Commonwealth of Massachusetts are required to notify the United States Citizenship and Immigration Services (USCIS) immediately of the name and last known address of any international student requiring a student visa whenever such student does not enroll, enrolls for less than full-time, withdraws or graduates from the institution. The public institutions of higher education shall forward copies of any such USCIS notifications to the Department of Higher Education.

Immunization Requirements for College Students*
Under the Massachusetts General Law, 105 CMR 220.600, in order to be registered at an institution of higher learning, every (1) full-time student (12 credits or more) and (2) every full-time or part-time student in a health science program who is in contact with patients, must present a physician’s certificate that such student has received the following immunizations:
1. The Hepatitis B vaccine series (3 doses over 6 months);
2. Two doses of live measles, mumps and rubella vaccine(s) (one month apart);
3. Two doses of live Varicella vaccine (one month apart);
4. Tdap – a single dose of Tdap will be required if it has been more than five years since the last dose of TD (Tetanus Diphtheria);

These requirements of the Massachusetts General Law 105 CMR 220.600, shall not apply where:
1. the student provides appropriate documentation, including a copy of a school immunization record, indicating receipt of the required immunizations; or
2. in the case of measles, mumps, rubella, and hepatitis, the student presents laboratory evidence of immunity.
3. the student provides written documentation that he or she meets the standards for medical or religious exemption set forth in M.G.L.c.76, §15C;

Students may be registered on the condition that the required immunizations be obtained within 30 days of registration.

*All students matriculated into health programs (Dental Hygiene, Diagnostic Technology, Massage Therapy, Medical Assisting, Medical Interpreter, Nursing, Tri-Level Nurse Aide) have specific health and immunization requirements. Please visit the following link for these requirements www.capecod.edu/web/registrar/immunization.
Institutional Policies

Student Records

Confidentiality of Student Records
Cape Cod Community College complies with the Family Educational Rights and Privacy Act of 1974 (Buckley Amendment) which governs access to and release of information contained in student educational records. Students have the right to review their educational records and seek correction of errors they may find in their records. Students have the right to file written complaints with the U.S. Department of Education, Family Policy Compliance Office, concerning alleged violations of this act. Release of Educational Records: Personally identifiable information may be released under certain circumstances, as provided by law. These include but are not limited to the following:

1. College personnel may have limited access to student records for legitimate educational or administrative purposes.
2. Confidential student records may be released pursuant to a court subpoena. However, the Registrar shall use professional judgment in determining which information to release and shall so notify the student in writing prior to releasing the requested information.
3. Medical and counseling records are different from educational records, and access is more limited. Such records will not be released without the student’s prior consent except as provided by law.
4. Information regarding the student, including educational records, may be released to parents of students who are claimed as dependents on their income tax returns.
5. A log or record will be kept for all students documenting release of that student’s records. No entry in the record need be made if access is provided by federal or state law.
6. The College may refuse to release transcripts for such reasons as unpaid financial obligations to the College.
7. The College may refuse to release any personally identifiable information, the disclosure of which may constitute an unwarranted invasion of personal privacy.

Students seeking additional information regarding their rights under the Family Educational Rights and Privacy Act should contact the Registrar’s Office or the Vice President of Academic and Student Affairs Office.

Student Right to Know Disclosure: Transfer and Graduation Rates
The Student Right-to-Know and Campus Security Act (P.L. 101-542) mandates that all institutions participating in Title IV or HEA programs disclose to current and prospective students four-year average graduation and transfer-out rates. In compliance with these mandates, Cape Cod Community College tracks all first-time, full-time, degree or certificate seeking (FTFTDS) students. Average rates for the last four cohorts of FTFTDS students are as follows: 14% graduated, 27% transferred (without graduating). Rates are based on status at 150% “time-to-credential” (i.e., 1.5 years for certificates, and three years for degrees).

Student Directory Information
Cape Cod Community College has designated certain types of information as directory information. This includes the student’s name, home town, student ID, email address, earned degrees or certificates, and academic honors. Students may restrict release of this information, if they wish, and this data will not be released except as authorized by law. Requests to restrict the release of directory information shall be made in writing to the Registrar. The College assumes that failure of any student to do so indicates approval for release of the information indicated above.

Notwithstanding the College’s definition of directory information, the Department of Defense, pursuant to the Omnibus Consolidated Appropriations Act of 1998, identifies the following student information as directory information: student names, addresses, and telephone listings; and if known, student ages, levels of education, major. If an eligible student chooses not to exercise his/her aforementioned right to refuse to permit the College to designate some or all of those types of information about the student as directory information, the College will release to the Department of Defense, or an agency thereof, student information which the Department of Defense has designated as directory information. This may result in the non-consensual release of students personally identifiable information by the College to the Department of Defense.

When student information is released pursuant to the Department of Defense request, notice of the request and release of student information in accordance therewith, will be posted in a conspicuous location in the College Registrar’s Office for the period of one academic year. All requests for student directory information shall be made in writing to the Registrar who shall review the request for compliance with all state and federal laws and regulations. The College will not release any student information over the phone or to persons making inquiry in person.

Voter Registration
Under the Massachusetts General Laws, Chapter 51, Section 42E (Section 17 of Chapter 475 of the Acts of 1993) effective January 1, 1995, affidavit of voter registration forms are available at the Registration Office. See the Registrar on the first floor of the Nickerson Administration Building for details.
Transfer Information

Transfer to Other Colleges

Graduates and other former students at the College have been accepted throughout the nation for transfer admission to a full range of bachelor’s institutions, and many have continued their education even further in graduate and professional programs.

Students who plan to transfer are encouraged to meet early on in their program with the College’s transfer advisor, as well as with their advisor, to schedule courses at the College which meet the Freshman and Sophomore requirements of bachelor’s programs at transfer institutions. Students planning to transfer to highly selective colleges and/or programs are advised to include 200-level and honors courses in their curriculum to make themselves more competitive for admission.

The transfer advisor is also available to assist students with all facets of transfer, beginning with the exploration of transfer institutions through the application process. The transfer advisor is located in the Grossman Commons Building, Room 206E.

MassTransfer*

Students planning to transfer to one of the participating state-supported universities or colleges in Massachusetts are eligible for MassTransfer. MassTransfer provides community college graduates who complete designated associate degrees with the benefits of full transfer and applicability of credit, guaranteed admission (2.5 GPA or higher), and a tuition discount (3.0 GPA or higher). MassTransfer also provides students in the Massachusetts public higher education system the intermediate goal of completing a 34 credit portable general education transfer block which will satisfy the general education/distribution/core requirements across participating institutions.

I. Students completing an associate degree program under MassTransfer will graduate with a minimum of 60 credit hours and complete the following 34-credit general education transfer block, exclusive of developmental coursework:

<table>
<thead>
<tr>
<th>MassTransfer Block</th>
<th>Minimum Final GPA</th>
<th>Benefit</th>
</tr>
</thead>
<tbody>
<tr>
<td>English Composition/Writing</td>
<td>2.0 GPA</td>
<td>• No admission fee or essay</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Guaranteed, full transfer of a minimum of 60 credits applied to</td>
</tr>
<tr>
<td></td>
<td></td>
<td>the bachelor’s degree, if admitted</td>
</tr>
<tr>
<td>Behavioral and Social Sciences</td>
<td>2.5 GPA</td>
<td>• Automatic satisfaction of the general education/distribution/core</td>
</tr>
<tr>
<td></td>
<td></td>
<td>requirements at the receiving institution, with the receiving</td>
</tr>
<tr>
<td></td>
<td></td>
<td>institution able to add no more than six additional credits/two</td>
</tr>
<tr>
<td></td>
<td></td>
<td>courses, if admitted</td>
</tr>
<tr>
<td>Humanities and Fine Arts</td>
<td>3.0 GPA</td>
<td>A 33% tuition waiver, plus all of the above benefits</td>
</tr>
<tr>
<td>Natural or Physical Science</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Mathematics/Quantitative Reasoning</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Total Credits</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

II. Students completing the MassTransfer Block (without earning a degree) at any Massachusetts higher education institution with a 2.0 or higher grade point average will earn the 34 credit hours outlined above, exclusive of developmental coursework.

Benefits for students who complete the MassTransfer Block (without earning a degree):

<table>
<thead>
<tr>
<th>Minimum Final GPA</th>
<th>Benefit</th>
</tr>
</thead>
<tbody>
<tr>
<td>2.0 GPA</td>
<td>Automatic satisfaction of the general education/distribution/core</td>
</tr>
<tr>
<td></td>
<td>requirements at the receiving institution, with the receiving</td>
</tr>
<tr>
<td></td>
<td>institution able to add no more than six additional credits/two</td>
</tr>
<tr>
<td></td>
<td>courses, if admitted</td>
</tr>
</tbody>
</table>

Benefits for students who complete associate’s degrees under MassTransfer are:

<table>
<thead>
<tr>
<th>Minimum Final GPA</th>
<th>Benefits</th>
</tr>
</thead>
<tbody>
<tr>
<td>2.0 GPA</td>
<td>• No admission fee or essay</td>
</tr>
<tr>
<td></td>
<td>• Guaranteed, full transfer of a minimum of 60 credits applied to</td>
</tr>
<tr>
<td></td>
<td>the bachelor’s degree, if admitted</td>
</tr>
<tr>
<td></td>
<td>• Automatic satisfaction of the general education/distribution/</td>
</tr>
<tr>
<td></td>
<td>core requirements at the receiving institution, with the receiving</td>
</tr>
<tr>
<td></td>
<td>institution able to add no more than six additional credits/two</td>
</tr>
<tr>
<td></td>
<td>courses, if admitted</td>
</tr>
</tbody>
</table>

Stipulations:

- If students change their major or if the linked baccalaureate program requires a higher grade point average or specific courses which are required of native students, MassTransfer students must meet these requirements. If, because of space or fiscal limitations, the receiving institution does not admit all qualified applicants to a given major or program, the receiving institution will use the same criteria for MassTransfer applicants as it does for its native students.

Stipulation: Students enrolled in a specific major or degree program may be required to take additional courses if these courses are specifically required for the major or program and are required of native students.

Articulation Agreements

Cape Cod Community College has formal articulation agreements with:

- Curry College – Information Technology
- Massachusetts College of Pharmacy and Health Sciences – Online – ASDH to MS in Dental Hygiene (MSDH) Bridge Program
- Massachusetts College of Pharmacy and Health Sciences – Online – ADN to MS Nursing Bridge Program
- Massachusetts Maritime Academy – Environmental Protection, Emergency Management
- Nichols College – Business Administration - Online or at Nichols - 3+1
- University of Maine – BSET in Surveying Engineering Technology
- University of Massachusetts-Amherst - Online - RN-BSN
- University of Massachusetts-Boston - Online - RN-BSN
- University of Massachusetts-Boston - Online - Reverse articulation - Vocational Technical Instructor
- University of Massachusetts-Dartmouth - Online - RN-BSN
- University of Massachusetts-Lowell - Criminal Justice
- University of Wisconsin - Online - RN-BSN
- Westfield State College - Online - Business Management

All of the information in this section is subject to change at the discretion of the participating institutions.

Other articulation agreements are being developed. Check with the Transfer Advisor or go to www.capecod.edu/web/transfer for the most up to date information.

Cape Cod Community College has developed more elaborate articulated partnerships through a number of 2+2 agreements. Please refer to page 17 for more information.

Students are encouraged to meet with the Coordinator of Transfer and Articulation at Cape Cod Community College to explore all the transfer options available. The Transfer Office is located in the Grossman Commons Building, Room 206E. Phone: 508-362-2131, ext. 4316.
Office of Advanced Studies

Area residents can now earn their Bachelor’s or Master’s degree right here on Cape Cod. The Office of Advanced Studies is the coordinating center for the Bachelor’s and Master’s degree programs being offered on-campus by participating colleges and universities.

As the host institution, Cape Cod Community College works closely with these other schools to provide programs the Cape’s workforce will need. It continues to explore additional programs as area needs are identified. Students are advised to contact the institution granting the degree for details. For more information, please contact the Office of Advanced Studies at 1-508-375-4082.

The following programs are currently being offered on campus. Most courses are held on nights and weekends, and all credits and degrees earned are granted by the participating institutions.

Cape Cod Center for Graduate Education

The Cape Cod Center for Graduate Education was established in 1992 to provide quality graduate education for the residents of Cape Cod and the Islands. The Center is a non-profit organization, governed by a Board of Directors. Representatives include school superintendents, college officials, and business and community agencies. The purpose of the Center is to provide non-traditional scheduling of graduate programs to meet the needs of working professionals. Selected Master’s degree programs are offered on-campus by accredited institutions of higher education; degrees are awarded by those institutions. For more information, call 1-508-375-4082.

Bachelor's Degree Partnerships

University of Massachusetts-Dartmouth
- Bachelor of Arts 1-508-362-2131 x4504
  - Liberal Arts
- Bachelor of Science 1-508-362-2131 x4504
  - General Business Administration

University of Massachusetts-Boston
- 1-617-287-7500 • m2bs@umb.edu
- Bachelor of Science (online education program)
  - Nursing A.D.N. to B.S.N

Master's Degree Partnerships

Boston University: 1-617-353-2245
- Masters in Clinical Social Work

Bridgewater State University: 1-508-531-1263
- Masters of Education in
  - Instructional Technology (Online program)
- Education Leadership
- Reading
- Special Education

Lesley University: 1-508-415-1261
- Masters in Counseling Psychology

University of Massachusetts-Dartmouth:
- 1-508-362-2131 x4504
  - Masters in Business Administration

Wheelock College: 1-617-879-2205
- Masters in Early Childhood Education
Providing its region with access to unique resources is a key mission for Cape Cod Community College. By maintaining close relationships with community leaders, business and industry groups, and local organizations, the College shapes its non-credit course offerings, conferences, workshops, lecture programs, cultural events, and special initiatives to meet community needs.

**Academy for Lifelong Learning**
For over 25 years, the Academy for Lifelong Learning has been promoting an often overlooked resource on Cape Cod - the skills, wit, and wisdom of our retired population. It challenges its members to explore new areas of interest in peer-supported learning groups and provides them with an opportunity to maintain intellectual vigor in an educationally supportive environment. For more information, call 1-508-362-2131, ext. 4400 or visit www.allcapecod.org.

**ACCCESS**
ACCCESS, the Adult Collaborative of Cape Cod for Education and Support Services, provides ESOL (English for Speakers of Other Languages), GED preparation, and college transition programs for adults over the age of sixteen. Workforce Education as well as academic and career counseling are available. There is no charge for these services. The local partners include a variety of local school districts and agencies. Classes are held day and evening at various locations across the Cape. Start times vary. For more information, call 1-508-362-2131 ext. 5000 or visit our web site at www.capecod.edu/acccess.

**After School Tutoring Program**
The College trains college students as volunteer tutors to conduct the After School Tutoring Program for students at the elementary school level. The program is funded by the Massachusetts Campus Compact. Students receive college credit at no charge for their work in this program. For more information, call 1-508-362-2131, ext. 4381.

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The purpose of the Center is to provide non-traditional scheduling of graduate programs to meet the needs of working professionals. Selected Master’s degree programs are offered on-campus by accredited institutions of higher education; degrees are awarded by those institutions. For more information, call 1-508-375-4082.

**GED Testing Center**
The GED Testing Center is located in the Grossman Commons Building, Room 206D and offers information on the GED Test and registration for the GED Test in person. For further information, call 1-508-362-2131, ext 4450/4678 or visit online at www.capecod.edu and search GED.

**Campus Provincetown**
The Department of Arts and Communication at Cape Cod Community College partners with Provincetown Art Association and Museum (PAAM) and Truro Center for the Arts at Castle Hill. Students who take courses at PAAM or Castle Hill may present portfolios for evaluation and academic credit at CCCC. For more information contact:

- The Museum School of the Provincetown Art Association
  460 Commercial Street
  Provincetown, MA 02657
  Telephone: 1-508-487-1750 • www.paam.org
  email: lstanley@paam.org
- Truro Center for the Arts
  10 Meetinghouse Road
  Truro, MA 02666
  1-508-349-7511
  www.castlehill.org

**The College Connection Program: Access, Support & Choice**
The College Connection Program (CCP) at Cape Cod Community College is an outreach program that aims to increase the percentage of area high school graduates who pursue a college education. CCP is designed to raise individual awareness and expectations about college options, provide equal access to college and reduce educational barriers by offering college readiness testing and enrollment services to all seniors on-site at our partner high schools. For more information contact The College Connection Program at 1-508-362-2131 ext. 4006 or email: CollegeConnectionProgram@capecod.edu.
Community Resources

Community Leadership Institute
The Community Leadership Institute (CLI) was formed to identify and nurture existing and potential leaders, increase their knowledge of community, and develop networks of individuals who can help each other solve community problems. This increased knowledge of community and expanded network of graduates will ensure that the public service/business sector will have trained people able to function as leaders for future community development. For more information visit www.clicapecod.org.

Cotton Center for Real Estate Studies
The Cotton Center for Real Estate Studies, established with a generous contribution of Jack and Ann Marie Cotton, is dedicated to the education and continued professional development of real estate professionals and the mentoring of those new to and seeking to enter the profession. The Center focuses energy and activity on advancing the field and affiliated elements while empowering individuals to attain home ownership. It will encompass all of the real estate courses currently offered by the managing department, the Workforce Education Resource Center, WERC, and anticipates developing new curriculum as appropriate in such areas as real estate licensing, appraising, sales and marketing, investment analysis, finance, property development, and management, and related topics and issues.

Current offerings include licensing, continuing education, and appraisal classes. Other offerings will be added over time which may include Goal Setting, Marketing, Finance, and an annual speaker series. National real estate speakers will be invited to the College to present programs of interest to real estate professionals.

In addition, online information for homeowners and realtors will be available at the Cotton Center for Real Estate Studies. For further information, please call 1-508-375-5010 or visit www.capecod.edu/werc.

English for Speakers of Other Languages (ESOL)
In addition to resources provided under ACCCESS (page 18), academic opportunities for non-native speakers are available through the College Assessment Center, Advising Office, and the Department of Language and Literature. The College aims to provide accurate diagnosis and placement in courses designed for non-native speakers to achieve success in Standard American English. For information, contact the Admissions Office at 1-508-362-2131, ext. 4311. Refer to page 154 for a list of ESOL courses.

Facilities Use
The facilities at Cape Cod Community College may be used by community groups on a space-available basis. For more information, call 1-508-362-2131, ext. 4418.

Graduate Degree Partnerships
Refer to Bachelor’s and Master’s Degrees, page 17.

Hyannis Center
The Hyannis Center, located at 540 Main Street, Hyannis, offers free educational assistance for adults who need to improve their basic reading, writing and math skills. The Center offers English for Speakers of Other Languages (ESOL) classes and preparation for the High School Equivalency Test (GED). Workplace education in the basic skills area, ESOL, and college transition are also available. The Hyannis Center also provides selected non-credit classes related to community interest, job training, computer programs, and college credit classes. For more information, call the Center at 1-508-375-5000.

International Education Opportunities
As a member of the College Consortium for International Studies (CCIS), the College offers the opportunities for students to take part in high-quality, fully accredited study abroad programs around the world. Study abroad programs include year-long, semester, and summer courses where students may earn college credit. Study abroad programs are open to Cape Cod Community College full-time and part-time students, to students from other colleges, and often to members of the community.

The College is a member of the Massachusetts Council for International Education (MaCIE), an association which links Massachusetts public institutions of higher education in a common commitment to promote international education among their diverse constituencies. For more information, call 1-508-362-2131, ext. 4456.

Cape Cod Community College also offers a variety of short-term courses facilitated by our faculty. Students typically earn one to three credits per course. Short-term courses are offered for audit to members of the community.

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The College is a member of the Massachusetts Council for International Education (MaCIE), an association which links Massachusetts public institutions of higher education in a common commitment to promote international education among their diverse constituencies. For more information, call 1-508-362-2131, ext. 4456.
Project Forward

Project Forward, a vocational training skills program for students with significant learning difficulties, has received national, state, and local recognition. Recognized as an exemplary school-to-work model by the U.S. Department of Education, Project Forward has also been cited by 4H/University of Massachusetts-Amherst for its Peer Leadership program.

Project Forward provides an exploratory career assessment including course offerings in Animal Care, Basic Food Preparation, Child Care, Office Technology, Basic Retail, Maintenance and Landscaping, Mass Communications, Hospitality, Cafe Operations/Customer Service, and Work-Life Skills.

Second/Third-year students participate in a cooperative work-study experience connecting work-based learning at a local job site with instruction at Cape Cod Community College. Enrichment activities including Art, Chorus, Fitness, Circles, Photography, Writing, Peer Leadership, and 4H activities coordinated with Barnstable County 4H/UMass Extension are available at no additional charge to the student. For further information, call 1-508-362-2131, ext. 4763 or email PDaley@capecod.edu.

Speakers Bureau

Cape Cod Community College faculty and staff members are a valuable resource of knowledge and insight for the entire region. The College maintains a Speakers Bureau list of individuals and groups within the institution who are prepared to make presentations and share their expertise on topics of personal and professional interest. A list of current topics and speakers is available through the Office of College Communications at 1-508-362-2131, ext. 4714.

Workforce Education Resource Center

The Workforce Education Resource Center (WERC) assesses training needs and designs and delivers custom training to companies and organizations on Cape Cod, Martha’s Vineyard, Nantucket, and Southeastern Massachusetts. The team of instructors, including college faculty, staff and consultants, provide expertise in management, team building, information technologies, customer service and a host of other areas including foreign languages needed for businesses and organizations to succeed in the global economy. On-site training helps meet the specific needs and is convenient for the employees of the corporation. Credit courses are provided when the content provided in the course best meets company objective. WERC has assisted businesses in securing Workforce Investment Funds to pay for training.

WERC provides on-line training accessible 24/7. Face-to-face courses are offered at the College’s Hyannis Center, West Barnstable Campus or other locations convenient to the clients. Courses are designed to provide just-in-time training for businesses and organizations that have one or more employees who need the training.

Certification and continuing education in selected areas are offered including OSHA, Real Estate, Fiber Optics, ServSafe, Home Inspection, and Dental Hygiene. All course listings can be found at www.capecod.edu/werc.

For information, call 1-508-375-5010, e-mail us at werc@capecod.edu or visit www.capecod.edu/werc.

Zammer Hospitality Institute

The College is proud to be the home of the Linda and William Zammer Institute for Hospitality and Culinary Studies. It is the pathway for students into well-paying hospitality and culinary careers, and is a vehicle through which the College quickly responds to the ever changing needs of the region’s hospitality and service-based economy.

It seeks to grow the student experience in:
- excellence in hospitality/curry services
- internships and cooperative work opportunities
- international cultures and cuisines
- sustainable business and environmental practices

For more information, call 1-508-362-2131, ext. 4994.
A Growing Need for Student Scholarships

As a state institution, CCCC is only partially supported through tax dollars. State funds now account for approximately 40% of the College’s operating budget. Increasingly, private support to the College is needed to offset reductions in state funding cuts now forecasted for the ensuing years.

The percentage of students seeking financial assistance at the College continues to increase. While Cape Cod Community College offers affordable, quality educational opportunities close to home, scholarships are necessary to both attract incoming students and to retain enrolled individuals who would otherwise not afford College. In turn, they often stay in the area after graduation or are able to transfer to four-year institutions.

If you are interested in funding a scholarship, please visit our web site and click on the Scholarship tab or call 508-375-4015. Email: foundation@capecod.edu Web: www.ccccfoundation.org
Academic and Student Affairs. A prerequisite cannot be the course with the approval of the Vice President of full-time status unless the student is required to audit. A course taken for audit does not count toward a student’s first ten weeks of classes subject to the above mentioned course from credit to audit may be made only during the add period. Change of status in a course from audit to credit may be made only during the withdrawal policy.

Audit
A student may register to audit a course with the permission of the course instructor. Audit forms are available at the Registration Office. Students are required to pay all tuition and fees. Financial aid does not cover the cost of audited classes.

Attendance requirements for audit students shall conform with the instructor’s policy for the class as a whole, unless other arrangements are made between the auditing student and the instructor. Participation in the course is by agreement between the student and the instructor. The student or the instructor has the prerogative to request the agreement be in writing. Upon satisfactory attendance and fulfillment of the agreement between the student and instructor, a status of AU will be recorded; no credit will be awarded. A status of Z (ABS-absent) will be recorded at the end of the course should the attendance and/or agreement not be fulfilled. The student may officially withdraw from the audited course according to the withdrawal policy.

Change of status in a course from audit to credit may be made only during the add period. Change of status in a course from credit to audit may be made only during the first ten weeks of classes subject to the above mentioned requirements.

A course taken for audit does not count toward a student’s full-time status unless the student is required to audit the course with the approval of the Vice President of Academic and Student Affairs. A prerequisite cannot be satisfied by an audit.

Challenge of Courses for Credit
Any student who wishes to earn college credit for lifetime experiences by demonstrating proficiency in the content of a course may request a course challenge through the faculty advisor or counselor according to the following policy. Challenge Exam forms are available at the Registration Office. Please note that Developmental Education courses, independent studies, and courses for which College Level Examination Program (CLEP) tests are available will not be challenged.

1. The student’s request must indicate:
   a. the name and number of the course;
   b. whether the course satisfies a requirement of the major program, satisfies a core requirement, or is an elective; and
   c. the reasons for believing there is already a mastery of the material, appropriate evidence, and supporting documentation. This request will be presented, together with an advisor’s recommendation, to the appropriate Academic Dean after payment of a fee.

2. A faculty expert will be identified by the Academic Dean in consultation with Department Chair and/or Program Coordinator.

3. The faculty expert will examine the applicant’s subject matter competence, will choose an appropriate evaluation process, and will make his/her recommendation for credit or no credit.

4. The expert’s recommendation and process of evaluation will then be reviewed by the department at a regularly scheduled meeting to insure uniformity of treatment.

5. After being reviewed by the department, the challenge will be recorded at the end of the term. If successful, the course, its credits, and a “P” for pass will be recorded.

6. Credit for any successfully challenged course will not be included in the College degree requirement that twenty-four credits must be earned at Cape Cod Community College.

CLEP and Advanced Placement Credit
Through the College Level Examination Program (CLEP), credits will be awarded to matriculated students who achieve a predetermined score, up to a maximum of twenty-four (24) credit hours. An official score report must be sent to the Registrar of the College. Cape Cod Community College requires the College Composition CLEP Examination in order to earn three semester hours of credit equivalent to ENL101 English Composition I. The Analyzing and Interpreting Literature examination is required to earn three semester hours of credit equivalent to ENL102 English Composition II. Cape Cod Community College's academic departments determine which CLEP subject examinations are equivalent to department offerings (required or elective) and the credits awarded for successful completion.

Students who score three (3) or better on the College Board Advanced Placement Examinations may be granted college credit. An official score report must be sent to the Registrar of the College.

For further information, call 1-508-362-2131, ext. 4543 or stop by the Assessment Center in the Grossman Commons. CLEP registration bulletins are available in the Assessment Center.

Developmental Education
The College recognizes that students come from a variety of backgrounds and experiences, thus making each student’s educational plan different. To assure student success in college-level courses, a variety of developmental courses are available for students to help build skills necessary for college-level work. Developmental education credits cannot be counted in the 60 credits (minimum) required for the A.A. and A.S. Degrees. For more information on developmental education courses, refer to pages 149-150.
**Academic Information**

**Schedule Adjustment Period**
All registered students will be permitted to adjust their schedules during the first seven (7) calendar days of the Fall or Spring semester providing the course has seats available and any prerequisites have been met. Once the course has completed its first class meeting, students must obtain the written permission of the course instructor or, if the instructor cannot be contacted, the appropriate Academic Dean to add into the course. The student is responsible for obtaining any missing course materials.

Change of Schedule forms are available in the Registration Office.

**Special Study Offerings**

**Honors Courses and Options**
Honors Program Mission Statement:
The Honors Program provides students and faculty with opportunities to enrich their learning experiences at Cape Cod Community College. We offer courses, advisement, scholarships, and support dedicated to the academic success of Honors students. Highly motivated students can pursue independent research, collaborate with faculty and fellow Honors students, develop critical thinking skills, and prepare for advancement to Commonwealth Honors Programs.

Qualified students must complete a minimum of twelve credits in the following distribution: nine hours of Honors course credits (three of those nine hours can be an Honors contract in a regular course) and three hours in the capstone experience - a multi-disciplinary and team taught Colloquium offered in the Spring. The Honors option in a regular course requires a contract between the student and faculty member for additional activities such as independent research, service learning, and/or special projects. All contracts need approval from the Honors Program coordinator and the academic vice-president. Successful completion of honors courses and contracts will be noted on students’ transcripts with a special notation of distinguished academic work. Opportunities are offered for the presentation of the students’ final Honors work at an annual local Reception and at the annual state-wide, undergraduate, research conference at the Commonwealth Honors College in Amherst. For detailed information on the Honors Program, go to [www.capecod.edu/honors](http://www.capecod.edu/honors).

The Cape Cod Community College Honors program is accredited by the Commonwealth of Massachusetts and is a member of the National Collegiate Honors Council (NCHC). This state-wide program allows community college students to graduate as Commonwealth Honors Scholars and transfer their honors credits directly into the honors programs at four-year state colleges and universities. For further information, call 1-508-362-2131 ext. 4658.

**Independent Study**
A student may pursue an independent study project for credit. The project must be approved by the student's faculty advisor, as well as by the faculty member who will present the project to the appropriate department. An interdisciplinary project may be planned requiring approval from more than one academic department. Projects will be planned and approved in advance.

**Learning Communities**
In an effort to provide the best learning environment for college students, several learning communities have been developed. Learning communities differ from traditional course offerings in that students enroll in two or three complementary courses during a single semester. This team-teaching, interdisciplinary approach enables students to transfer and apply the skills learned in one course to the other(s). In addition, learning communities help strengthen the connection of students to the College and one another. For more information, please contact the Advising Center at 1-508-362-2131 ext. 4318.

**Online Learning**
The Office of Online and Learning Technologies supports a variety of online courses which allow flexible schedules. Class lectures, course materials, assignments and activities are completed via an online course space available to students via the College's Learning Management System. Assignments are generally submitted online via the course space. For some online courses, proctored testing is required and facilitated by the Online and Learning Technologies Office located in the Lorusso Technology Building, Room 215.

Any student taking online courses or courses with online components is responsible for having reliable access to both the Internet and a computer running Internet Explorer v5.5 or higher. Students with disabilities who believe they need accommodations in online courses are advised to contact the O’Neill Center for Disability Services in South 222 as soon as possible, or call 1-508-362-2131 ext. 4337.

**Service Learning Courses and Options**
Service Learning is a teaching methodology designed to engages students in local community service and to evaluate that service from an academic perspective. Service learning is different from volunteer work in that it asks that students apply what they have learned in a course or discipline to their service experiences. There are two options for earning academic credit for service learning at the College:

1. **Service learning designed to be a part of a course**
   Some classes have service initiatives embedded into the class as a requirement or as an alternative assignment. To participate in service learning, a student must register for the course.

2. **Service learning attached to an anchor course**
   A one-credit add-on option to an anchor course where a student undertakes volunteer work outside of the College. Students simultaneously register for both the anchor course and SLR 101.

Enrolling in this option requires submission of a contract between the student and faculty member of the anchor course. This contract outlines additional assignments to be completed and evaluated by the faculty member that will facilitate conscious reflection on the relationship between the service activities and the academic coursework. The volunteer work must be related to the curriculum of the anchor course. All contracts must be approved by the Service Learning Coordinator and by the Office of the Vice President of Academic Affairs.

For more information, contact the Service Learning Coordinator at 1-508-362-2131 ext. 4659.

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![Cape Cod Community College Catalog 2012-2013](Link to catalog page)

**page 2 of 2**
### Degree Requirements

Cape Cod Community College implemented the following new requirements for all Associate in Arts and Associate in Science degrees, effective Fall 2010 for all newly matriculated students.

Students who matriculate at Cape Cod Community College prior to Fall 2010 will follow the requirements in the catalog under which they originally matriculated.

Cape Cod Community College is authorized to award the Associate in Arts and Associate in Science degrees. Degree requirements and academic standards, subject to modification, apply to all students.

The College will consider and accept credits, subject to its standards, from other accredited institutions. Refer to Transfer to Cape Cod Community College, page 8, for more information.

All students must file a Declaration of Intent to Graduate form with the Registrar by the priority date of the semester in which they expect to complete their requirements. To graduate in May, the priority date to submit the Request for Graduation form is February 1; the priority date for August graduation is June 1; and the priority date for January graduation is October 1. It is the responsibility of the student to originate this request and failure to do so may delay his or her graduation. The responsibility for satisfying requirements rests with the student.

The graduation requirements have been established to enable the graduate of Cape Cod Community College to lead a productive and satisfying life, to function in and contribute to society, and to possess those abilities necessary for further personal and career development. In addition to specific content knowledge, communication skills, critical and creative thinking skills, ethical and civic engagement practices, multicultural and global awareness, quantitative and computational skills, and technological literacy have been integrated throughout the curriculum. Students must complete the requirements as stated in the Associate in Arts or Associate in Science Degree Requirements.

<table>
<thead>
<tr>
<th>Prerequisites</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cape Cod Community College is committed to students' academic success. Prerequisite courses are established to assure students have the necessary knowledge and skills to succeed in a course. Students are required to complete (or be currently enrolled in) prerequisites prior to registering for the next level course.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Associate in Arts Degree Requirements</th>
</tr>
</thead>
<tbody>
<tr>
<td>The Associate in Arts degree is designed for students planning to transfer to a Bachelor's Degree granting institution.</td>
</tr>
<tr>
<td>For the Associate in Arts degree the student must:</td>
</tr>
<tr>
<td>1. Have a minimum cumulative average of 2.0,</td>
</tr>
<tr>
<td>2. Satisfactorily complete a minimum of 60 credit hours, at least 24 of which must be earned from Cape Cod Community College, excluding developmental education courses.</td>
</tr>
<tr>
<td>3. Select 35 general education credits as follows:</td>
</tr>
<tr>
<td>ENL101 English Composition I 3cr</td>
</tr>
<tr>
<td>ENL102 English Composition II 3cr</td>
</tr>
<tr>
<td>Humanities and Fine Arts 9cr</td>
</tr>
<tr>
<td>Behavioral and Social Sciences 9cr</td>
</tr>
<tr>
<td>Natural or Physical Science 8cr</td>
</tr>
<tr>
<td>Mathematics/Quantitative Reasoning 3cr</td>
</tr>
<tr>
<td>Total Credits 35</td>
</tr>
</tbody>
</table>

Refer to General Education courses on page 26.

4. Select the remaining credits from among all other course offerings for which the student has met the prerequisites.

#### Note:

1. Students who are recommended to enroll in developmental courses in reading, writing, or mathematics should do so during their first semester. Other courses should be chosen carefully and in many cases these students should not carry a full-time load (12 credit hours or more).
2. Students should complete ENL101, ENL102 and any mathematics requirements within the first 30 credits since communication and quantitative skills are essential for success in many college courses.
3. All students graduating with an Associate in Arts degree automatically satisfy MassTransfer. An associate degree is MassTransfer eligible when the curriculum includes the MassTransfer Block listed below. A limited number of Associate in Science degrees are eligible for some of the MassTransfer benefits. Go to page 16 for more information about MassTransfer and to www.mass.edu/masstransfer for full details about MassTransfer.

**MassTransfer Block**

<table>
<thead>
<tr>
<th>Subject</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>English Composition/Writing</td>
<td>6cr</td>
</tr>
<tr>
<td>Humanities and Fine Arts</td>
<td>9cr</td>
</tr>
<tr>
<td>Behavioral and Social Sciences</td>
<td>9cr</td>
</tr>
<tr>
<td>Natural or Physical Science</td>
<td>7cr*</td>
</tr>
<tr>
<td>Mathematics/Quantitative Reasoning</td>
<td>3cr</td>
</tr>
</tbody>
</table>

Total Credits 34*

*CCCC requires 8 credits of Natural or Physical Science for an Associate in Arts degree.

<table>
<thead>
<tr>
<th>Associate in Science Degree Requirements</th>
</tr>
</thead>
<tbody>
<tr>
<td>The Associate in Science degree programs provide students with general education coursework and professional skills coursework to enter the workforce in their chosen profession.</td>
</tr>
</tbody>
</table>

For the Associate in Science degree the student must:

1. Have a minimum cumulative average of 2.0, |
2. Satisfactorily complete a minimum of 60 credit hours, at least 24 of which must be earned from Cape Cod Community College, excluding developmental education courses, |
3. Select 21-23 general education credits as follows: |
| ENL101 English Composition I 3cr |
| Humanities and Fine Arts 3cr* |
| Behavioral and Social Sciences 6cr |
| Mathematics/Quantitative Reasoning (or) Natural or Physical Science 6-8cr |
| General Education 3cr |

Total Credits 21-23

Refer to General Education courses on page 26.

4. Complete 37-39+ professional education credits required by a particular program as outlined, beginning on page 59.

*Programs will, in most cases, include both ENL102 and COM103 resulting in a minimum of 24 General Education credits.
Second Associate Degree Policy
A second Associate degree shall be awarded to students who have:

1. met all specific degree requirements of the program from which a second Associate degree will be granted.
   (Note: Only one Associate in Arts degree may be earned and in the Associate in Science degrees with multiple concentrations, the student can complete the requirements for only one concentration.)
2. completed the specific courses, as identified and approved by the appropriate individual or committee and at the institutional level, needed to complete the second degree.
3. completed a minimum of fifteen (15) credit hours beyond the first degree requirements. In no case (other than this 15-hour minimum) should it be mandatory for the student to take more credit hours than necessary to meet the requirements of a second degree.

General Education
Cape Cod Community College implemented the following new requirements for all Associate in Arts and Associate in Science degrees, effective Fall 2010 for all newly matriculated students.

Students who matriculated at Cape Cod Community College prior to Fall 2010 will follow the requirements in the catalog under which they originally matriculated.

Associate Degree General Education Requirements
All students graduating with an Associate degree from Cape Cod Community College will complete the following 21-23* credits of common general education requirements:

- ENL101 English Composition I 3cr
- Humanities and Fine Arts 3cr
- Behavioral and Social Sciences 6cr
- Mathematics/Quantitative Reasoning (or) Natural or Physical Science 6-8cr
- General Education Elective 3cr

Total Credits 21-23*

*Associate in Arts degree students take additional general education coursework to satisfy the MassTransfer Block (see page 16).

General Education Requirements
Courses listed satisfy General Education requirements for the Associate in Arts and the Associate in Science degrees. Check the Associate in Arts concentration outlines (beginning on page 30) for recommended electives and the Associate in Science programs for specific requirements (beginning on page 58). Note: 100-level courses are generally designed for first-year students; 200-level courses are generally designed for second-year students.

General Education Criteria
In order for a course to meet General Education criteria, at least four of the six Institutional Student Learning Outcomes must be assessed within the course.

Institutional Student Learning Outcomes

Communication Skills
The community college graduate will demonstrate the ability to express ideas clearly and cogently, and to read, write, speak, and listen using Standard American English.

Critical and Creative Thinking Skills
The community college graduate will demonstrate the ability to locate and use information for the purpose of examining underlying assumptions and interpreting and evaluating arguments, will create deliberately and independently using skills and knowledge acquired in our classrooms.

Ethical and Civic Engagement Practices
The community college graduate will demonstrate a broad-based knowledge and understanding of ethical concepts and principles, decision-making, and behaviors and will understand the meaning and responsibilities associated with citizenship in the USA and the world community.

Multi-cultural and Global Awareness
The community college graduate will demonstrate the ability to appreciate, analyze and deal constructively with historical or contemporary experiences of diversity in the USA and the world enabling the student to participate effectively in an increasingly complex and diverse world.

Quantitative and Computational Skills
The community college graduate will demonstrate the ability to apply computational methods, generate problem-solving strategies, interpret equations and numerical data from tables, charts, and graphs, and organize, analyze, and present quantitative information.

Technological Literacy
The community college graduate will demonstrate the ability to use current technology to improve his/her creativity, productivity, communication skills, research skills, and information management skills.
### Degree Requirements

#### General Education Courses
The following courses satisfy a general education requirement:

<table>
<thead>
<tr>
<th>Subject</th>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>English Composition/Writing</td>
<td>ENL101</td>
<td>English Composition I</td>
</tr>
<tr>
<td></td>
<td>ENL102</td>
<td>English Composition II</td>
</tr>
<tr>
<td>Behavioral &amp; Social Sciences</td>
<td>CRJ105</td>
<td>Criminology, Theory and Practice</td>
</tr>
<tr>
<td></td>
<td>ANT107</td>
<td>Introduction to Anthropology</td>
</tr>
<tr>
<td></td>
<td>ANT215</td>
<td>Peoples and Culture of the Middle East</td>
</tr>
<tr>
<td></td>
<td>ECO117</td>
<td>Principles of Macroeconomics</td>
</tr>
<tr>
<td></td>
<td>ECO118</td>
<td>Principles of Microeconomics</td>
</tr>
<tr>
<td></td>
<td>ECO155</td>
<td>Emerging Market Economies</td>
</tr>
<tr>
<td></td>
<td>ECO157</td>
<td>Global Economics</td>
</tr>
<tr>
<td></td>
<td>GEO104</td>
<td>Geography: Culture &amp; Environment</td>
</tr>
<tr>
<td></td>
<td>GOV101</td>
<td>Comparative Politics</td>
</tr>
<tr>
<td></td>
<td>GOV102</td>
<td>International Relations</td>
</tr>
<tr>
<td></td>
<td>GOV111</td>
<td>American Government</td>
</tr>
<tr>
<td></td>
<td>HIS103</td>
<td>U.S. History to 1865</td>
</tr>
<tr>
<td></td>
<td>HIS104</td>
<td>U.S. History since 1865</td>
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<td></td>
<td>HIS108</td>
<td>U.S. History since 1945</td>
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<td></td>
<td>HIS160</td>
<td>European History I</td>
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<tr>
<td></td>
<td>HIS162</td>
<td>European History II</td>
</tr>
<tr>
<td></td>
<td>HIS206</td>
<td>Ancient History</td>
</tr>
<tr>
<td></td>
<td>HIS207</td>
<td>Medieval History</td>
</tr>
<tr>
<td></td>
<td>HIS215</td>
<td>Women in U.S. History</td>
</tr>
<tr>
<td></td>
<td>HIS216</td>
<td>History of Japan</td>
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<tr>
<td></td>
<td>HIS217</td>
<td>The Civil War</td>
</tr>
<tr>
<td></td>
<td>HIS228</td>
<td>Women in European History</td>
</tr>
<tr>
<td></td>
<td>HIS253</td>
<td>Vietnam: America’s Longest War</td>
</tr>
<tr>
<td></td>
<td>HUS101</td>
<td>Introduction to Human Services</td>
</tr>
<tr>
<td></td>
<td>HUS201</td>
<td>The Helping Relationship</td>
</tr>
<tr>
<td></td>
<td>PHI130</td>
<td>Introduction to Philosophy</td>
</tr>
<tr>
<td></td>
<td>PHI131</td>
<td>Logic</td>
</tr>
<tr>
<td></td>
<td>PHI160</td>
<td>Three Great Thinkers</td>
</tr>
<tr>
<td></td>
<td>PHI201</td>
<td>Existentialism</td>
</tr>
<tr>
<td></td>
<td>PHI210</td>
<td>Ethics</td>
</tr>
<tr>
<td></td>
<td>PSY101</td>
<td>General Psychology</td>
</tr>
<tr>
<td></td>
<td>PSY201</td>
<td>Child Psychology</td>
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<tr>
<td></td>
<td>PSY202</td>
<td>Adolescent Psychology</td>
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<tr>
<td></td>
<td>PSY207</td>
<td>Abnormal Psychology</td>
</tr>
<tr>
<td></td>
<td>PSY208</td>
<td>Principles of Counseling and Crisis Intervention</td>
</tr>
<tr>
<td></td>
<td>PSY219</td>
<td>Psychology of Women</td>
</tr>
<tr>
<td></td>
<td>PSY225</td>
<td>Social Psychology</td>
</tr>
<tr>
<td></td>
<td>PSY233</td>
<td>Developmental Psychology: The Life Span</td>
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<tr>
<td></td>
<td>PSY235</td>
<td>Cognitive Psychology</td>
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<tr>
<td></td>
<td>PSY241</td>
<td>Selected Topics in Psychology</td>
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<tr>
<td></td>
<td>SOC106</td>
<td>Principles of Sociology</td>
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<tr>
<td></td>
<td>SOC205</td>
<td>Juvenile Delinquency</td>
</tr>
<tr>
<td></td>
<td>SOC208</td>
<td>Race, Gender, and Class in the United States</td>
</tr>
<tr>
<td></td>
<td>SOC210</td>
<td>Marriage and Family: Sociology of Family Interaction &amp; Organization</td>
</tr>
<tr>
<td></td>
<td>SOC215</td>
<td>Social Problems</td>
</tr>
<tr>
<td></td>
<td>SOC230</td>
<td>Peoples &amp; Cultures of Africa</td>
</tr>
<tr>
<td>Humanities &amp; Fine Arts</td>
<td>ART100</td>
<td>Drawing I</td>
</tr>
<tr>
<td></td>
<td>ART101</td>
<td>Design I</td>
</tr>
<tr>
<td></td>
<td>ART103</td>
<td>Painting I</td>
</tr>
<tr>
<td></td>
<td>ART105</td>
<td>Visual Language</td>
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<tr>
<td></td>
<td>ART125</td>
<td>History of Art: Stone Age to Gothic</td>
</tr>
<tr>
<td></td>
<td>ART126</td>
<td>History of Art: Renaissance to Romanticism</td>
</tr>
<tr>
<td></td>
<td>ART136</td>
<td>Three-Dimensional Design</td>
</tr>
<tr>
<td></td>
<td>ART205</td>
<td>Illustration I</td>
</tr>
<tr>
<td></td>
<td>ART207</td>
<td>Graphic Design I</td>
</tr>
<tr>
<td></td>
<td>ART209</td>
<td>Printmaking Techniques</td>
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<tr>
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<td>ART214</td>
<td>Digital Imaging I</td>
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<tr>
<td></td>
<td>ASL101</td>
<td>American Sign Language I</td>
</tr>
<tr>
<td></td>
<td>ASL102</td>
<td>American Sign Language II</td>
</tr>
<tr>
<td></td>
<td>COM103</td>
<td>Human Communication</td>
</tr>
<tr>
<td></td>
<td>COM105</td>
<td>Survey of Mass Communications</td>
</tr>
<tr>
<td></td>
<td>COM120</td>
<td>Introduction to Film</td>
</tr>
<tr>
<td></td>
<td>COM201</td>
<td>Interpersonal Communication</td>
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<tr>
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<td>COM203</td>
<td>Public Speaking</td>
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<td>COM204</td>
<td>Persuasive Communication</td>
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<td>COM207</td>
<td>Argumentation and Debate</td>
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<td>COM221</td>
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<td></td>
<td>COM222</td>
<td>International Film</td>
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<tr>
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<td>DAN120</td>
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<td></td>
<td>ENL108</td>
<td>Critical Reading &amp; Thinking</td>
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<tr>
<td></td>
<td>ENL120</td>
<td>Introduction to Children’s Literature</td>
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<td></td>
<td>ENL150</td>
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<td>ENL161</td>
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<td></td>
<td>ENL201</td>
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<td>ENL202</td>
<td>World Literature II</td>
</tr>
<tr>
<td></td>
<td>ENL203</td>
<td>English Literature through the 18th Century</td>
</tr>
<tr>
<td></td>
<td>ENL204</td>
<td>British Literature: Romantic Age - Present</td>
</tr>
<tr>
<td></td>
<td>ENL205</td>
<td>American Literature to 1890</td>
</tr>
<tr>
<td></td>
<td>ENL206</td>
<td>American Literature since 1890</td>
</tr>
<tr>
<td></td>
<td>ENL210</td>
<td>Exploring Modern Poetry</td>
</tr>
<tr>
<td></td>
<td>ENL215</td>
<td>World Religions in Literature</td>
</tr>
<tr>
<td></td>
<td>ENL217</td>
<td>Exploring the World of Science Fiction</td>
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<td></td>
<td>ENL219</td>
<td>Masters of Horror</td>
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<td>ENL228</td>
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</tr>
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<td>Humanities: Perception through the Arts</td>
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<td></td>
<td>PHI210</td>
<td>Ethics</td>
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<tr>
<td></td>
<td>SPN101</td>
<td>Elementary Spanish I</td>
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<td></td>
<td>SPN102</td>
<td>Elementary Spanish II</td>
</tr>
<tr>
<td></td>
<td>SPN105</td>
<td>Elementary Spanish I for Health Professionals</td>
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<tr>
<td></td>
<td>SPN201</td>
<td>Intermediate Spanish I</td>
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<td>SPN202</td>
<td>Intermediate Spanish II</td>
</tr>
<tr>
<td></td>
<td>THR101</td>
<td>Introduction to Theater</td>
</tr>
<tr>
<td></td>
<td>THR113</td>
<td>Rehearsal &amp; Performance</td>
</tr>
</tbody>
</table>

#### Interdisciplinary Studies
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<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
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<tbody>
<tr>
<td>BI0204</td>
<td>Introduction to Public Health</td>
</tr>
<tr>
<td>BI103</td>
<td>Medical Terminology</td>
</tr>
<tr>
<td>BI175</td>
<td>Visual Basic Programming</td>
</tr>
<tr>
<td>COL101</td>
<td>The College Experience</td>
</tr>
<tr>
<td>COM209</td>
<td>Event Planning</td>
</tr>
<tr>
<td>GIT110</td>
<td>Microcomputer Applications Software</td>
</tr>
<tr>
<td>MAT140</td>
<td>Survey of Mathematics</td>
</tr>
<tr>
<td>MAT150</td>
<td>Elementary Statistics</td>
</tr>
<tr>
<td>MAT165</td>
<td>Finite Mathematics</td>
</tr>
<tr>
<td>MAT171</td>
<td>Precalculus Mathematics I</td>
</tr>
<tr>
<td>BIO101</td>
<td>Fundamentals of Astronomy</td>
</tr>
<tr>
<td>BIO102</td>
<td>Concepts in Biology II</td>
</tr>
<tr>
<td>BIO105</td>
<td>Survey of Human Anatomy and Physiology</td>
</tr>
<tr>
<td>BIO107</td>
<td>Human Anatomy and Physiology I</td>
</tr>
<tr>
<td>BIO109</td>
<td>Survey of Biology</td>
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<td>CHM101</td>
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<td>CHM106</td>
<td>Survey of Chemistry</td>
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<td>CHM109</td>
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<tr>
<td>ENV118</td>
<td>Introduction to Environmental Science</td>
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<td>ESC101</td>
<td>Introduction to Earth Science</td>
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<td>ESC105</td>
<td>Oceanography</td>
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<td>HOR101</td>
<td>Plant &amp; Soil Science</td>
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<tr>
<td>PHY101</td>
<td>Physics I</td>
</tr>
<tr>
<td>PHY102</td>
<td>Physics II</td>
</tr>
<tr>
<td>PHY106</td>
<td>Survey of Physics</td>
</tr>
<tr>
<td>PHY211</td>
<td>University Physics I</td>
</tr>
<tr>
<td>PHY212</td>
<td>University Physics II</td>
</tr>
</tbody>
</table>
Academic Standards

Academic Distinctions
Matriculated students are eligible for the following academic distinctions.

Dean's List
Students who demonstrate superior academic performance are named to the Dean's List at the end of each semester. Students are eligible for the Dean's List in any semester during which they successfully complete 15 or more semester hours of credit with grades no lower than C and with a grade point average of 3.00 or above, or complete 12-14 credit hours with grades no lower than C and with a grade point average of 3.20 or above.

• Non-degree course credit, such as developmental education credits, will not be calculated in determining total semester hour credit for Dean's List eligibility.
• A student with a grade below C is not eligible for the Dean's List in that semester.
• A student with an Incomplete in any course is not eligible for the Dean's List in that semester.

Graduation Honors
Students who demonstrate superior academic performance in earning their Associate degree are recognized with honors at graduation.

• "Honors" are awarded to students with a CGPA of 3.5 to 3.74 inclusive.
• "High Honors" are awarded to students with a CGPA of 3.75 to 4.0.

Credit count for graduation is based on a) credits taken at Cape Cod Community College for courses graded A through D- and P; b) transfer credits (credits transfer; grades do not transfer); c) College Level Exam Program (CLEP) and challenge exam credits.

Academic Standing
A student’s academic standing is determined by the cumulative grade point average (CGPA) required to meet minimum academic standards based on the student’s credit count of courses successfully completed at Cape Cod Community College.

<table>
<thead>
<tr>
<th>Hours toward GPA</th>
<th>Good Standing CGPA</th>
<th>Academic Review</th>
<th>Probation CGPA</th>
</tr>
</thead>
<tbody>
<tr>
<td>9-15 credits</td>
<td>2.0</td>
<td>1.50-1.99</td>
<td>below 1.50</td>
</tr>
<tr>
<td>16-24 credits</td>
<td>2.0</td>
<td>1.75-1.99</td>
<td>below 1.75</td>
</tr>
<tr>
<td>25+ credits</td>
<td>2.0</td>
<td>N/A</td>
<td>below 2.00</td>
</tr>
</tbody>
</table>

*Hours toward GPA (HGPA) are all letter grades (A through F) with exception of developmental courses.

Good Standing
Students with a CGPA of 2.0 or above are considered in Good Academic Standing.

Academic Review
A student is placed on Academic Review when his/her CGPA falls below a 2.0 but above the probationary level as shown in the table above. Students placed on Academic Review will be notified in writing by the Registrar’s Office and be required to meet with an academic advisor prior to enrolling for the next semester.

Academic Probation
A student is placed on Academic Probation if his/her CGPA falls below the designated Probation threshold associated with the HGPA as listed in the table above. Students have two semesters of attendance to raise their CGPA to a level above Probation. Students on Academic Probation will be notified in writing by the Registrar’s Office and are required to meet with an academic advisor every semester before registering for classes in order to create a plan including tutoring, strategic course selection, and other changes in study habits.

Academic Dismissal
A student who has not raised his/her CGPA above Probation after two semesters of attendance will be dismissed for one calendar year. Students will be notified in writing by the Registrar’s Office and may consider the Academic Appeals Procedure described in the Student Handbook Online at www.capecod.edu/web/student-handbook. After one year of inactive status, a student may return and will be placed on Probation. After one year of inactive status, the student may choose to take advantage of the Fresh Start Option.
Cumulative Grade Point Average (CGPA)

The student’s cumulative grade point average is computed on the basis of grade number values as follows:

A = 4; A– = 3.67; B+ = 3.33; B = 3; B– = 2.67; C+ = 2.33; C = 2; C– = 1.67; D+ = 1.33; D = 1; D– = 0.67; F = 0.

These assigned values are multiplied by the number of credit hours for each course to establish the total quality points.

The following grades are not computed in the CGPA: Z(ABS), AU, I, P, R, W, and WIP*. Grades of F, however, are calculated into the grade point index. Course grades from other colleges are not computed in the Cape Cod Community College cumulative grade point average. Transfer credits for course work from other colleges, however, may be approved and applied to satisfy degree requirements, up to a maximum of 36 credits.

If a student withdraws from a class, an official withdrawal form must be filed with the Registrar to ensure accuracy of student records. If the student fails to officially withdraw, a failing grade could result.

A typical CGPA would be computed as follows: (see chart). Since the student attempted 13 hours of work and achieved 26.33 total quality points, the 26.33 quality points are divided by 13, resulting in a 2.03 CGPA.

<table>
<thead>
<tr>
<th>Course</th>
<th>Grade</th>
<th>Hours Towards GPA</th>
<th>Quality Points</th>
<th>Total Quality Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>English Composition I</td>
<td>A</td>
<td>3</td>
<td>3.67</td>
<td>11.01</td>
</tr>
<tr>
<td>Human Communication</td>
<td>C</td>
<td>3</td>
<td>2.00</td>
<td>6.00</td>
</tr>
<tr>
<td>General Psychology</td>
<td>F</td>
<td>3</td>
<td>0.00</td>
<td>0.00</td>
</tr>
<tr>
<td>Concepts in Biology I</td>
<td>C+</td>
<td>4</td>
<td>2.33</td>
<td>9.32</td>
</tr>
<tr>
<td>College Reading and Study Skills</td>
<td>P</td>
<td>(3)</td>
<td>**</td>
<td>**</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>13</td>
<td>26.33</td>
</tr>
</tbody>
</table>

* Z (ABS) = absent; AU = audit; I = incomplete; P = pass; R = repeat; W = withdraw; WIP = work in progress.
** No grade point equivalent, therefore not included in grade point average

Fresh Start Option

The Fresh Start Option permits a fresh start to a student who has not been enrolled at the College for at least one year and has re-enrolled on probation, has a grade point average below 2.0, or has been academically dismissed. A student may exercise the Fresh Start Option only once.

Within this option, original grades and CGPA will remain on the transcript, but all future calculations of CGPA will include only courses taken after readmission. Prior courses taken at Cape Cod Community College (before the one-year break) will be evaluated according to the current transfer credit policy. Courses meeting the transfer credit policy will be counted as transfer credit. The transcript will identify the selection of this option. The student who wishes to re-enroll under this option may obtain an application and requirements of the Fresh Start Option from the Admissions Office. A student must be matriculated in order to elect the Fresh Start option.

Student Status

Each student who attempts at least 12 semester hours of work is considered a full-time student at the College; a part-time student is one taking 11 semester hours or fewer. To matriculate, a student must submit an admissions application, be accepted, and enroll in a degree or certificate program. Students seeking a degree or certificate should matriculate as early as possible. Contact the Admissions Office for assistance.

If a student changes status at any time, the Registrar must be notified immediately to ensure correct status. Any change made from full-time to part-time status within the first two weeks of a semester may result in a partial refund. Obviously, the reverse is true, and any part-time student who schedules more than 11 semester hours must be considered a full-time student and pay for the added courses.
Academic and Student Affairs Area

Arts and Humanities
Lore Loftfield De Bower, Dean

- Foreign Film Series
- Higgins Art Gallery
- International Education

Department of Arts and Communication
Jerry Skelley, Chairperson

- Art
- Communication
- Dance
- Film

Health Sciences, Social Sciences, Human Services and Advanced Studies
Susan Maddigan, Dean

- Academy for Lifelong Learning
- Advanced Studies
- Cape Cod Center for Graduate Education
- Early Childhood Center

- Fitness Center/Intramurals
- Nursing & Allied Health Resource Center
- Plus 50 Initiative
- Project Forward

Department of Health Sciences
Barbara A. Murphy, Chairperson

- Allied Health
- Diagnostic Tech
- EMT/Paramedic
- Massage Therapy
- Medical Assisting
- Medical Interpreter
- Tri-level Nursing Assistant/Home Health Aide

- Dental Hygiene/Clinic
- Gerontology
- Life Fitness/Wellness
- Nursing
- Day Option
- Evening Option
- LPN in Transition

Department of Social Sciences, Behavioral Sciences, and Human Services
Sergio Marini, Chairperson

- Anthropology
- Criminal Justice
- Early Childhood Education
- Economics
- Education
- Fire Science
- Geography

- History
- Human Services
- Philosophy
- Political Science & Government
- Psychology
- Religion
- Sociology

Learning Resources and Student Success
David Ziemba, Dean

- Advantage/TRIO/SSS
- Alumni Association
- CVTE
- Events Planning
- Judiciary
- Perkins
- Coaches & Mentors
- Career Specialist/Advisor
- Non-Traditional by Gender Initiative

- Service Learning
- Services for Students with Disabilities - O’Neill Center
- Student Code of Conduct
- Student Life & Co-Curricular Programs
- Student Success Course

Learning Resources/Wilkens Library
Jeannmarie Fraser, Associate Dean of Academic Support Services and Learning Resources

- Academic Support Services
- Learning Communities
- Math Learning Center
- Reading & Writing Resource Center
- Tutoring Center
- College Archives
- Nickerson Cape Cod History Archives

Science, Technology, Mathematics, Business, and Workforce Education
Robert Cody, Dean

- Career Services & Experiential Learning
- Cotton Center for Real Estate Studies
- Workforce Education Resource Center
- Zammer Institute

Department of Business
Gail Guarino, Chairperson

- Business Administration
- Accounting
- Entrepreneurship
- Hospitality Management/Culinary Arts
- Management
- Marketing

Department of Mathematics
Negash Yusuf, Chairperson

- Computer Science
- Mathematics
- Developmental Mathematics

Department of Natural Sciences and Applied Technology
Gail Maguire, Chairperson

- Astronomy
- Biology
- Chemistry
- Construction Technology
- Earth Science
- Environmental Technology/Clean Energy
- Horticulture
- Physics
The Associate in Arts degree does not indicate a specialized degree in a concentration.

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The Associate in Arts degree is MassTransfer eligible. Go to page 16 for more information about MassTransfer and go to www.mass.edu/masstransfer for full details about MassTransfer.

**Students who plan to transfer to a particular college should consult with a Cape Cod Community College transfer advisor, the receiving institution’s office of admissions, the relevant college catalog, and plan on the appropriate course of study.**

The Associate in Arts degree is designed for students planning to transfer to a Baccalaureate (4-year) institution. Use the information that follows along with guidance from your advisor, and college or university catalogs and/or web sites to plan your curriculum at Cape Cod Community College.

**Associate in Arts Degree Requirements**

For the Associate in Arts degree the student must:

1. Have a minimum cumulative average of 2.0,
2. Satisfactorily complete a minimum of 60 credit hours, at least 24 of which must be earned from Cape Cod Community College, excluding developmental education courses,
3. Select 35 general education credits as follows:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENL101 English Composition I</td>
<td>3 cr</td>
</tr>
<tr>
<td>ENL102 English Composition II</td>
<td>3 cr</td>
</tr>
<tr>
<td>Humanities and Fine Arts</td>
<td>9 cr</td>
</tr>
<tr>
<td>Behavioral and Social Sciences</td>
<td>9 cr</td>
</tr>
<tr>
<td>Natural or Physical Science</td>
<td>8 cr</td>
</tr>
<tr>
<td>Mathematics/Quantitative Reasoning</td>
<td>3 cr</td>
</tr>
</tbody>
</table>

   **Total Credits**  35

Refer to General Education courses on page 26.

4. Select the remaining credits from among all other course offerings for which the student has met the prerequisites.

**Note:**

1. Students who are recommended to enroll in developmental courses in reading, writing, or mathematics should do so during their first semester. Other courses should be chosen carefully and in many cases these students should not carry a full-time load (12 credit hours or more).
2. Students should complete ENL101, ENL102 and any mathematics requirements within the first 30 credits since communication and quantitative skills are essential for success in many college courses.
3. All students graduating with an Associates in Arts degree automatically satisfy MassTransfer. An associate’s degree is MassTransfer eligible when the curriculum includes the MassTransfer block. Go to page 16 for more information about MassTransfer and to www.mass.edu/masstransfer for full details about MassTransfer.

The concentrations listed on the following pages are SAMPLE PROGRAMS that have been prepared to assist students who wish to major in certain areas when they transfer. The sequential lists of courses are only suggestions based on what many baccalaureate institutions require.

Your academic advisor can assist you in shaping a program that meets your career and educational goals. If you do not have an academic advisor, please contact the Advising and Counseling Center.

Use the form on the next page to keep track of your coursework, using the concentration pages as guides.

Students must apply for graduation at the beginning of their final semester at CCCC. See your academic advisor to complete the form.

Any student taking online courses or courses with online components will be responsible to have access to both the Internet and a computer running Internet Explorer version 5.5 or higher.

Please visit www.capecod.edu/online for more information detailing online course requirements.
# Associate in Arts Graduation Requirements Worksheet - for students who are matriculated as of Fall 2012

## Developmental Courses *(if required)*

<table>
<thead>
<tr>
<th>Course</th>
<th>Grade</th>
<th>Semester</th>
<th>Year</th>
</tr>
</thead>
<tbody>
<tr>
<td>MAT010</td>
<td></td>
<td>Fall/Winter/Spring</td>
<td></td>
</tr>
<tr>
<td>MAT020</td>
<td></td>
<td>Fall/Winter/Spring</td>
<td></td>
</tr>
<tr>
<td>MAT030</td>
<td></td>
<td>Fall/Winter/Spring</td>
<td></td>
</tr>
<tr>
<td>MAT040</td>
<td></td>
<td>Fall/Winter/Spring</td>
<td></td>
</tr>
<tr>
<td>ENL010</td>
<td></td>
<td>Fall/Winter/Spring</td>
<td></td>
</tr>
<tr>
<td>ENL020</td>
<td></td>
<td>Fall/Winter/Spring</td>
<td></td>
</tr>
<tr>
<td>ENL040</td>
<td></td>
<td>Fall/Winter/Spring</td>
<td></td>
</tr>
<tr>
<td>ENL050</td>
<td></td>
<td>Fall/Winter/Spring</td>
<td></td>
</tr>
<tr>
<td>ESL010</td>
<td></td>
<td>Fall/Winter/Spring</td>
<td></td>
</tr>
</tbody>
</table>

## AA General Education Requirements: (35) Credits Required for MassTransfer

<table>
<thead>
<tr>
<th>Course</th>
<th>Grade</th>
<th>Semester</th>
<th>Year</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENL101 English Composition I</td>
<td></td>
<td>Fall/Winter/Spring</td>
<td></td>
</tr>
<tr>
<td>ENL102 English Composition II</td>
<td></td>
<td>Fall/Winter/Spring</td>
<td></td>
</tr>
<tr>
<td>Humanities &amp; Fine Arts</td>
<td></td>
<td>Fall/Winter/Spring</td>
<td></td>
</tr>
<tr>
<td>Humanities &amp; Fine Arts</td>
<td></td>
<td>Fall/Winter/Spring</td>
<td></td>
</tr>
<tr>
<td>Humanities &amp; Fine Arts</td>
<td></td>
<td>Fall/Winter/Spring</td>
<td></td>
</tr>
<tr>
<td>Behavioral &amp; Social Sciences</td>
<td></td>
<td>Fall/Winter/Spring</td>
<td></td>
</tr>
<tr>
<td>Behavioral &amp; Social Sciences</td>
<td></td>
<td>Fall/Winter/Spring</td>
<td></td>
</tr>
<tr>
<td>Behavioral &amp; Social Sciences</td>
<td></td>
<td>Fall/Winter/Spring</td>
<td></td>
</tr>
<tr>
<td>Natural or Physical Science</td>
<td></td>
<td>Fall/Winter/Spring</td>
<td></td>
</tr>
<tr>
<td>Natural or Physical Science</td>
<td></td>
<td>Fall/Winter/Spring</td>
<td></td>
</tr>
<tr>
<td>Math/Quantitative Reasoning</td>
<td></td>
<td>Fall/Winter/Spring</td>
<td></td>
</tr>
</tbody>
</table>

## Free Elective Credit: (25) Credits Needed

<table>
<thead>
<tr>
<th>Course</th>
<th>Grade</th>
<th>Credit</th>
<th>Semester</th>
<th>Year</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td>Fall/Winter/Spring</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Fall/Winter/Spring</td>
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<td>Fall/Winter/Spring</td>
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<td>Fall/Winter/Spring</td>
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<td>Fall/Winter/Spring</td>
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<td>Fall/Winter/Spring</td>
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<td>Fall/Winter/Spring</td>
<td></td>
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<td></td>
<td></td>
<td></td>
<td>Fall/Winter/Spring</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Fall/Winter/Spring</td>
<td></td>
</tr>
</tbody>
</table>

Associate in Arts

Communication Concentration

Students who complete this concentration will satisfy the requirements of MassTransfer. Students should consult with an advisor about the general education course requirements.

A candidate for the Communication concentration might select a schedule similar to this.

<table>
<thead>
<tr>
<th>Course #</th>
<th>Course Title</th>
<th>Credits</th>
<th>Prerequisites</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>First Semester</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ENL101</td>
<td>English Composition I</td>
<td>3</td>
<td>Appropriate scores in Reading Comprehension &amp; in Sentence Skills on CPT or grade of C or better in ENL020 and ENL050 or ESL201</td>
</tr>
<tr>
<td>COM103</td>
<td>Human Communication</td>
<td>3</td>
<td>ENL010 or ESL102 or satisfactory basic skills assessment score</td>
</tr>
<tr>
<td>Behavioral &amp; Social Sciences</td>
<td>3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Elective</td>
<td>3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Concentration elective</td>
<td>3</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Second Semester</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ENL102</td>
<td>English Composition II</td>
<td>3</td>
<td>A grade of C or higher in ENL101</td>
</tr>
<tr>
<td>Mathematics/Quantitative Reasoning</td>
<td>3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Behavioral &amp; Social Sciences</td>
<td>3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Humanities &amp; Fine Arts</td>
<td>3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Concentration elective</td>
<td>3</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Third Semester</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Humanities &amp; Fine Arts</td>
<td>3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Behavioral &amp; Social Sciences</td>
<td>3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Natural or Physical Science</td>
<td>4</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Humanities &amp; Fine Arts</td>
<td>3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Concentration elective</td>
<td>3</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Fourth Semester</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Natural or Physical Science</td>
<td>4</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Elective</td>
<td>3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Elective</td>
<td>3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Concentration elective</td>
<td>3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Concentration elective</td>
<td>3</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Total Credits</strong></td>
<td>62</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

The Associate in Arts degree does not indicate a specialized degree in a concentration.

**Overview**
This concentration offers a sequence of courses providing a flexible background for students who plan to transfer to a four-year college or university to major in communication options. Most of the courses are skills oriented, designed to improve the student’s skill in developing personal confidence to communicate in formal and informal settings and in interpersonal relationships, to effectively prepare and present informative and persuasive information, and to effectively lead and participate in small group discussions. Critical thinking skills are developed in such areas as the study of value systems, the study of language, the use of persuasion, and in audience analysis. More specific courses introduce the student to career-oriented fields such as television production and direction, radio broadcasting, or journalism.

**Career Outlook**
The Communication concentration allows the student to enter bachelor’s degree programs and professional fields where the ability to think, create, and work independently are valued. Graduates with strong backgrounds in the communication arts have been successful in media and the performing arts, law and public administration, public relations, sales, business, and industry. The bachelor’s degree is the minimum requirement for entry into many of these fields.

**Concentration electives**
- COM105 Mass Communication
- COM113 Radio Broadcasting
- COM201 Interpersonal Communication
- COM202 Small Group Communication
- COM204 Persuasive Communication
- COM205 Oral Interpretation/Readers Theater
- COM206 Communication in Current Settings
- ENL161 Journalism I
- ENL163 Journalism II
- MKT103 Advertising
**Overview**

Using hands-on projects and teamwork, Computer Science students learn to design, implement, and test programs in Java, C++, and assembly language. Students analyze and use various software development models and basic software engineering principles. Object-oriented programming methodology, systems software, and data structures are studied in depth. Students satisfy the general education requirements and MassTransfer with concentrated coursework in Calculus and Physics.

**Career Outlook**

Most Computer Science students continue their education at a four-year school. Computer scientists design computers, software, and information technologies. Computer engineers also work with hardware and software, often in the process of building prototypes. By far the most numerous of computer professionals and systems analysts solve computer problems and customize technology to satisfy the needs of an organization. Computer scientists, computer engineers, and systems analysts are among the fastest growing occupations.

---

**Associate in Arts**

**Computer Science Concentration**

Students who complete this concentration will satisfy the requirements of MassTransfer. Students should consult with an advisor about the general education course requirements.

A candidate for the Computer Science concentration might select a schedule similar to this.

<table>
<thead>
<tr>
<th>Course #</th>
<th>Course Title</th>
<th>Credits</th>
<th>Prerequisites</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>First Semester</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ENL101</td>
<td>English Composition I</td>
<td>3</td>
<td>Appropriate scores in Reading Comprehension &amp; in Sentence Skills on CPT or grade of C or better in ENL020 and ENL050 or ESL201</td>
</tr>
<tr>
<td>MAT240</td>
<td>Calculus I</td>
<td>4</td>
<td>MAT190</td>
</tr>
<tr>
<td>CSC110</td>
<td>Computer Programming I: Java</td>
<td>3</td>
<td>MAT030 or satisfactory basic skills assessment score</td>
</tr>
<tr>
<td></td>
<td>Physics*</td>
<td>4</td>
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<tr>
<td></td>
<td>Behavioral &amp; Social Sciences</td>
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<tr>
<td><strong>Second Semester</strong></td>
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</tr>
<tr>
<td>ENL102</td>
<td>English Composition II</td>
<td>3</td>
<td>A grade of C or higher in ENL101</td>
</tr>
<tr>
<td>MAT250</td>
<td>Calculus II</td>
<td>4</td>
<td>MAT240 or MAT185</td>
</tr>
<tr>
<td>CSC130</td>
<td>Computer Programming II: Java</td>
<td>4</td>
<td>CSC110</td>
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<tr>
<td>COM103</td>
<td>Human Communication</td>
<td>3</td>
<td>ENL010 or ESL102 or satisfactory basic skills assessment score</td>
</tr>
<tr>
<td>CSC210</td>
<td>Systems Software and Assembly Language Programming</td>
<td>4</td>
<td>CSC130</td>
</tr>
<tr>
<td>CSC120</td>
<td>Computer Programming I: C++</td>
<td>4</td>
<td>MAT030 or satisfactory basic skills assessment score &amp; working knowledge of any programming language</td>
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<td>Humanities &amp; Fine Arts</td>
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<td>Behavioral &amp; Social Sciences</td>
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<td><strong>Fourth Semester</strong></td>
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<tr>
<td>CSC230</td>
<td>Data Structures</td>
<td>4</td>
<td>CSC120 &amp; CSC130</td>
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<td></td>
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<tr>
<td><strong>Total Credits</strong></td>
<td></td>
<td>65/66</td>
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</tbody>
</table>

The Associate in Arts degree does not indicate a specialized degree in a concentration.
Associate in Arts
Education Concentration

Students who complete this concentration will satisfy the requirements of MassTransfer. Students should consult with an advisor about the general education course requirements.

For students planning to teach in Massachusetts public schools, please refer to the Education Licensure Requirements. Refer to information regarding Criminal Offender Record Information (CORI).

A candidate for the Education concentration might select a schedule similar to this:

<table>
<thead>
<tr>
<th>Course #</th>
<th>Course Title</th>
<th>Credits</th>
<th>Prerequisites</th>
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</thead>
<tbody>
<tr>
<td>ENL101</td>
<td>English Composition I</td>
<td>3</td>
<td>Appropriate scores in Reading Comprehension &amp; in Sentence Skills on CPT or grade of C or better in ENL020 and ENL050 or ESL201</td>
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<td>PSY101</td>
<td>General Psychology</td>
<td>3</td>
<td>ENL020 &amp; ENL050 or satisfactory basic skills assessment scores</td>
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<td>Elective*</td>
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</tr>
<tr>
<td></td>
<td>Behavioral &amp; Social Sciences</td>
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<td></td>
</tr>
<tr>
<td></td>
<td>Humanities &amp; Fine Arts</td>
<td>3</td>
<td></td>
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<tr>
<td></td>
<td>Elective*</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>ENL102</td>
<td>English Composition II</td>
<td>3</td>
<td>A grade of C or higher in ENL101</td>
</tr>
<tr>
<td>COM103</td>
<td>Human Communication</td>
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<td>ENL010 or ESL102 or satisfactory basic skills assessment score</td>
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<tr>
<td>PSY202</td>
<td>Adolescent Psychology</td>
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<td></td>
<td>Natural or Physical Science</td>
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<td></td>
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<td></td>
<td>Elective*</td>
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<td>Total Credits</td>
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</tr>
</tbody>
</table>

The Associate in Arts degree does not indicate a specialized degree in a concentration.

Overview
This concentration prepares students for transfer to complete their bachelor's degree and become licensed to teach at the middle and high school level. Candidates for middle or high school licensure are required to minor in middle or high school education and major in the subject area they plan to teach.

Students must graduate with a minimum 2.75 GPA and attain a passing score on the Communication and Literacy Skills (CLST) portion of the Massachusetts Tests for Educators Licensure (MTEL) before their planned entrance to the bachelor institution to be accepted directly into an education program.

Career Outlook
Students completing a bachelor's degree in middle or high school education will be required to take the MTEL test in the subject area they plan to teach. After passing this test, they will receive initial licensure and be ready to enter the teaching profession. Students must obtain a master's degree within five years to receive professional licensure. Students will be eligible to teach in public and private schools in grades 5-8, or 8-12, depending on which licensure track they pursue.

* The elective credits may be courses in the intended teaching area, or if you know what bachelor institution you plan to attend, then choosing courses that would satisfy general education requirements at that institution would be beneficial.

** Students should choose a literature or foreign language for this area, depending on the general education requirements of the bachelor institution they plan to attend.
Education Licensure Requirements
for Students Planning to Teach in MA Public Schools

Students planning to teach in Massachusetts public schools should be aware of the following information as they move forward in their education at Cape Cod Community College.

Education Licensure in Massachusetts is offered on four levels:*

- **Early Childhood** (Pre-Kindergarten through Grade 2)
- **Elementary Education** (Grade 1 through Grade 6)
- **Middle School** (Grade 5 through Grade 8)
- **High School** (Grade 8 through Grade 12)

* There are a few teaching areas (Art, Drama, Music, plus others) that do not follow these levels and may be researched at the Department of Education website, www.doe.mass.edu, or with the CCCC Transfer Advisor.

Students planning to begin their education at CCCC and then transfer to a bachelor's institution to complete a course of study leading to licensure to teach in Massachusetts public schools should choose their course of study at CCCC based on the following guidelines:

- **Early Childhood** - A. S., Early Childhood Education Program - Transfer Compact (Students not wishing to become licensed to teach in the public schools, or who want to teach at the preschool level, may also choose the A.S. degree in Early Childhood Education.)
- **Elementary Education** - A. A., Elementary Education Transfer Compact Concentration
- **Middle or High School** - A. A., Education Concentration

Requirements to be accepted into a licensing program at a bachelor’s institution:

- Entry into Education programs at the bachelor’s level requires students have a minimum grade point average of not less than 2.75 (At their discretion, individual institutions may require a higher grade point average).
- All students are required to pass the Communication and Literacy Skills Test (CLST), one of the Massachusetts Tests for Educator Licensure (MTEL). The CLST is usually taken before admission to an education program at the bachelor’s institution. Students should plan to take this test sometime after the completion of English Composition II, and before entering the bachelor’s institution, but it may also be taken earlier. The CLST may be taken after entering the bachelor’s institution but students must receive a passing score before being admitted to an education program.
- Some bachelor’s institutions require that students pass all the required MTEL tests before acceptance into an Education program.

Requirements to obtain initial licensure to teach:

- Students planning to teach Early Childhood or Elementary Education are required to double major in early childhood education or elementary education and a liberal arts and science major while in attendance at the bachelor's institution. The choices for the liberal arts and science major depend on the bachelor's institution students attend.
- Students planning to teach middle school or high school are required to major in their subject area and minor in middle or high school education while in attendance at the bachelor's institution.
- All students are required to pass an (MTEL) Academic subject matter test.
- Students seeking licensure in Early Childhood Education or Elementary Education must also pass the (MTEL) Foundations of Reading Test.

Teaching Licensure is administered by the Massachusetts Department of Education. Requirements for licensure are subject to change. Students should check the Department of Education’s web site, www.doe.mass.edu, or call 1-781-338-6600, for the most current information.

Information about MTEL can be found at the Department of Education website, or by going directly to www.mtel.nesinc.com.

Students are also encouraged to visit the Transfer Office at Cape Cod Community College to find out more information, and/or explore the College catalog or web site of their intended transfer institution.
Associate in Arts
Elementary Education Transfer Compact Concentration

Students who complete this concentration will satisfy the requirements of MassTransfer. Students should consult with an advisor about the general education course requirements.

For students planning to teach in Massachusetts public schools, please refer to the Education Licensure Requirements. To graduate in the Elementary Education Transfer Compact concentration a student must complete the following required course of study. Students interested in this concentration are encouraged to meet with the CCCC Transfer Advisor. Refer to information regarding Criminal Offender Record Information (CORI).

<table>
<thead>
<tr>
<th>Course #</th>
<th>Course Title</th>
<th>Credits</th>
<th>Prerequisites</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>First Semester</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ENL101</td>
<td>English Composition I</td>
<td>3</td>
<td>Appropriate scores in Reading Comprehension &amp; in Sentence Skills on CPT or grade of C or better in ENL020 and ENL050 or ESL201</td>
</tr>
<tr>
<td>COM103</td>
<td>Human Communication</td>
<td>3</td>
<td>ENL010 or ESL102 or satisfactory basic skills assessment score</td>
</tr>
<tr>
<td>PSY101</td>
<td>General Psychology</td>
<td>3</td>
<td>ENL020 &amp; ENL050 or satisfactory basic skills assessment scores</td>
</tr>
<tr>
<td><strong>Second Semester</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ENL102</td>
<td>English Composition II</td>
<td>3</td>
<td>A grade of C or higher in ENL101</td>
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<tr>
<td>PSY201</td>
<td>Child Psychology</td>
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<td>PSY101</td>
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<td>EDU101</td>
<td>Foundations of Education</td>
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<td>ENL010 &amp; ENL050 or satisfactory basic skills assessment scores</td>
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<tr>
<td>ENL120</td>
<td>Introduction to Children’s Literature</td>
<td>3</td>
<td>ENL010</td>
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<td><strong>Third Semester</strong></td>
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<td></td>
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</tr>
<tr>
<td>HIS103</td>
<td>U.S. History to 1865</td>
<td>3</td>
<td>None; ENL020 &amp; ENL050 strongly recommended</td>
</tr>
<tr>
<td>Behavioral &amp; Social Sciences*</td>
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</tr>
<tr>
<td>Natural or Physical Science (Biological)***</td>
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<td>4</td>
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</tr>
<tr>
<td>Mathematics/Quantitative Reasoning</td>
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<td>Elective****</td>
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</tr>
<tr>
<td><strong>Fourth Semester</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Natural or Physical Science (Physical)***</td>
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<td>4</td>
<td></td>
</tr>
<tr>
<td>Humanities &amp; Fine Arts (Literature)**</td>
<td></td>
<td>3</td>
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</tr>
<tr>
<td>Elective****</td>
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<tr>
<td>Total Credits</td>
<td></td>
<td>62</td>
<td></td>
</tr>
</tbody>
</table>

The Associate in Arts degree does not indicate a specialized degree in a concentration.

Students are encouraged to meet with the Cape Cod Community College Transfer Counselor.

Overview
Students must graduate with a minimum 2.75 GPA and attain a passing score on the Communication and Literacy skills (CLST) portion of the Massachusetts Tests for Education Licensure (MTEL) before their planned entrance to the bachelor institution, to be accepted directly into an education program. If students do not meet the criteria above, they may be admitted to the required academic (second) major on initial acceptance to the bachelor’s institution.

Career Outlook
Students completing a bachelor’s degree in Elementary Education will be required to take two additional MTEL tests: General Curriculum and Foundations of Reading. After passing these tests, they will receive initial licensure to teach and be ready to enter the teaching profession. Students must obtain a master’s degree within five years to receive professional licensure. Students will be eligible to teach in public and private schools in grades 1-6.

*Behavioral & Social Sciences
GOV111 American Government
HIS119 World History I

**Humanities & Fine Arts
ENL201 World Literature I
ENL205 American Literature to 1890
ENL206 American Literature since 1890

*** Natural or Physical Science
A Biological Science is any 4-credit course from the Natural Science or Physical Science general education list (with a lab) with the prefix BIO, ENV, or HOR; all other 4-credit Natural Science or Physical Science courses (with a lab) are considered Physical Sciences.

****Elective
Choose courses carefully that will fulfill requirements for the academic major (second) required for Elementary Education. Elementary Education curriculum through the bachelor’s degree has very few open electives. Making course choices outlined here and in conjunction with a bachelor’s institution curriculum will assure a student meets the required coursework in 120 credits.
Associate in Arts

English Literature Concentration

Students who complete this concentration will satisfy the requirements of MassTransfer. Students should consult with an advisor about the general education course requirements.

A candidate for the English Literature Concentration might select a schedule similar to this.

<table>
<thead>
<tr>
<th>Course #</th>
<th>Course Title</th>
<th>Credits</th>
<th>Prerequisites</th>
</tr>
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<tbody>
<tr>
<td><strong>First Semester</strong></td>
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<td></td>
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<tr>
<td>ENL101</td>
<td>English Composition I</td>
<td>3</td>
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</tr>
<tr>
<td>COM103</td>
<td>Human Communication</td>
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<td></td>
</tr>
<tr>
<td>Behavioral &amp; Social Sciences</td>
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</tr>
<tr>
<td>Mathematics/Quantitative Reasoning</td>
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<tr>
<td>Humanities &amp; Fine Arts (Modern Language)</td>
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<td><strong>Second Semester</strong></td>
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<tr>
<td>ENL102</td>
<td>English Composition II</td>
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<td>Behavioral &amp; Social Sciences</td>
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<td>Humanities &amp; Fine Arts</td>
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<tr>
<td>Elective</td>
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<td></td>
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<tr>
<td>Humanities &amp; Fine Arts (Modern Language)</td>
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<td><strong>Third Semester</strong></td>
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<tr>
<td>Behavioral &amp; Social Sciences</td>
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<td>Natural or Physical Science</td>
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<td><strong>Fourth Semester</strong></td>
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<td>Natural or Physical Science</td>
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<td><strong>Total Credits</strong></td>
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</tbody>
</table>

The Associate in Arts degree does not indicate a specialized degree in a concentration.

**Overview**
The English Literature concentration is for students who plan to transfer as a junior to a bachelor’s degree program.

**Career Outlook**
Students planning to attend graduate school select from a broad range of humanistic courses to prepare for advanced study. Career fields include education, law, publishing, advertising, public relations, personnel management, administration, writing, and library services.

**Concentration electives**
- ENL108 Critical Reading and Thinking
- COM205 Oral Interpretation/Readers Theater
- Modern Language (2-4 semesters)
- Advanced Literature electives*
- Writing elective

* Advanced literature electives should include a two-semester literature sequence ENL201-202, ENL203-204, ENL205-206.

** Concentration electives on the Humanities & Fine Arts general education requirement list may be used.
Associate in Arts
English Writing / Rhetoric Concentration

Students who complete this concentration will satisfy the requirements of MassTransfer. Students should consult with an advisor about the general education course requirements.

A candidate for the English Writing / Rhetoric Concentration might select a schedule similar to this.

<table>
<thead>
<tr>
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<th>Course Title</th>
<th>Credits</th>
<th>Prerequisites</th>
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</thead>
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<td></td>
<td>First Semester</td>
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</tr>
<tr>
<td>ENL101</td>
<td>English Composition I</td>
<td>3</td>
<td>Appropriate scores in Reading Comprehension &amp; in Sentence Skills on CPT or grade of C or better in ENL020 and ENL050 or ESL201</td>
</tr>
<tr>
<td>COM103</td>
<td>Human Communication</td>
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<td></td>
<td>Behavioral &amp; Social Sciences</td>
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<td>Mathematics/Quantitative Reasoning</td>
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<td></td>
<td>Concentration elective</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Elective</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Humanities &amp; Fine Arts*</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Total Credits</td>
<td>61</td>
<td></td>
</tr>
</tbody>
</table>

The Associate in Arts degree does not indicate a specialized degree in a concentration.

Overview
The English Writing / Rhetoric concentration prepares students for transfer to Bachelor of Arts programs in writing, critical thinking, journalism, and/or communication. Students who select this option may also transfer to Bachelor of Fine Arts programs in creative writing.

Career Outlook
Excellent employment opportunities abound for students whose critical thinking and writing skills enable them to communicate effectively and clearly, participate in decision making, and learn autonomously. Career fields include education, journalism, public relations, resource management, sales, information management, and customer relations.

Concentration electives
- ENL106 Language in Society
- ENL108 Critical Reading and Thinking
- ENL131 Technical Writing
- ENL147 Cod Tales: Writing about Cape Cod
- ENL161 Journalism I
- ENL163 Journalism II
- ENL209 Creative Writing
- Modern Language elective
- Literature elective

* Concentration electives on the Humanities & Fine Arts general education requirement list may be used.
Associate in Arts
Environmental Studies Concentration

Students who complete this concentration will satisfy the requirements of MassTransfer. Students should consult with an advisor about the general education course requirements.

A candidate for the Environmental Studies Concentration might select a schedule similar to this.

<table>
<thead>
<tr>
<th>Course #</th>
<th>Course Title</th>
<th>Credits</th>
<th>Prerequisites</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>First Semester</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ENL101</td>
<td>English Composition I</td>
<td>3</td>
<td>Appropriate scores in Reading Comprehension &amp; in Sentence Skills on CPT or grade of C or better in ENL020 and ENL050 or ESL201</td>
</tr>
<tr>
<td>BIO101</td>
<td>Concepts in Biology I</td>
<td>4</td>
<td>MAT030, ENL020 &amp; ENL050 or satisfactory basic skills assessment scores</td>
</tr>
<tr>
<td>ENV101</td>
<td>Survey of Environmental Technology</td>
<td>3</td>
<td>None</td>
</tr>
<tr>
<td>CHM101</td>
<td>General Chemistry I</td>
<td>4</td>
<td>MAT040 or MAT110 &amp; ENL020 &amp; ENL050 or satisfactory basic skills assessment scores</td>
</tr>
<tr>
<td><strong>Second Semester</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>BIO102</td>
<td>Concepts in Biology II</td>
<td>4</td>
<td>A grade of C or higher in BIO101</td>
</tr>
<tr>
<td>ENL102</td>
<td>English Composition II</td>
<td>3</td>
<td>A grade of C or higher in ENL101</td>
</tr>
<tr>
<td>CHM102</td>
<td>General Chemistry II</td>
<td>4</td>
<td>A grade of C or higher in CHM101</td>
</tr>
<tr>
<td>COM103</td>
<td>Human Communication</td>
<td>3</td>
<td>ENL010 or ESL102 or satisfactory basic skills assessment score</td>
</tr>
<tr>
<td></td>
<td>Behavioral &amp; Social Sciences</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Third Semester</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Humanities &amp; Fine Arts</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Behavioral &amp; Social Sciences</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>CHM201</td>
<td>Organic Chemistry I</td>
<td>5</td>
<td>A grade of C or higher in CHM102</td>
</tr>
<tr>
<td></td>
<td>Mathematics/Quantitative Reasoning*</td>
<td>3/4</td>
<td></td>
</tr>
<tr>
<td><strong>Fourth Semester</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Humanities &amp; Fine Arts</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Behavioral &amp; Social Sciences</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>CHM202</td>
<td>Organic Chemistry II</td>
<td>5</td>
<td>A grade of C or higher in CHM201</td>
</tr>
<tr>
<td></td>
<td>Environmental elective**</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Total Credits</strong></td>
<td>62/64</td>
<td></td>
</tr>
</tbody>
</table>

The Associate in Arts degree does not indicate a specialized degree in a concentration.

**Overview**
Students who aim toward a four-year undergraduate program in Environmental Studies can undertake the first two years at the College. In addition to the natural science and mathematical courses, students choose from a variety of environmental electives. Articulation agreements with the Massachusetts Maritime Academy are in the process of being updated. Consult the transfer advisor concerning the details of these articulation agreements.

**Career Outlook**
This option provides students with a sound basis for further study in environmental engineering, environmental studies, natural resources management, environmental education, and environmental management.

**Program Outcomes**
Upon successful completion of the Environmental Studies Concentration, students are able to:

- Communicate and discuss current issues in environmental science.
- Demonstrate the ability for further study in environmental engineering, environmental studies, natural resources management, environmental education, and environmental management.

* Mathematics courses chosen from:
MAT150 Elementary Statistics
MAT171 Precalculus Mathematics I

** Environmental electives should be carefully chosen from the list of Environmental Technology courses.
## Associate in Arts
### Graphic Design Concentration

Students who complete this concentration will satisfy the requirements of MassTransfer. Students should consult with an advisor about the general education course requirements.

A candidate for the Graphic Design Concentration might select a schedule similar to this.

<table>
<thead>
<tr>
<th>Course #</th>
<th>Course Title</th>
<th>Credits</th>
<th>Prerequisites</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>First Semester</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ENL101</td>
<td>English Composition I</td>
<td>3</td>
<td>Appropriate scores in Reading Comprehension &amp; in Sentence Skills on CPT or grade of C or better in ENL020 and ENL050 or ESL201</td>
</tr>
<tr>
<td>COM103</td>
<td>Human Communication</td>
<td>3</td>
<td>ENL010 or ESL102 or satisfactory basic skills assessment score</td>
</tr>
<tr>
<td>ART100</td>
<td>Drawing I</td>
<td>3</td>
<td>ENL010 &amp; ENL040 or satisfactory basic skills assessment score</td>
</tr>
<tr>
<td>ART101</td>
<td>Design I</td>
<td>3</td>
<td>ENL010 &amp; ENL040 or satisfactory basic skills assessment score</td>
</tr>
</tbody>
</table>

| **Second Semester**                                   |                                                   |
| ENL102    | English Composition II                 | 3       | A grade of C or higher in ENL101                       |
| ART205    | Illustration I                         | 3       | ENL010 & ENL040 or satisfactory basic skills assessment score & some computer experience; ART130 recommended |
| Elective  |                                       | 3       |                                                       |

| **Third Semester**                                    |                                                   |
| ART207    | Graphic Design I                       | 3       | ART210 or ART214 or ART205; ART130 & ART137 recommended |
| ART210    | Graphic Production and Layout I        | 3       | GIT110; ART130 recommended                             |
| ART214    | Digital Imaging I                      | 3       | ENL010 & ENL040 or satisfactory basic skills assessment score & some computer experience required; ART130 recommended |

| **Fourth Semester**                                   |                                                   |
| ART200    | Drawing II                             | 3       | ART100                                                 |
| ART208    | Graphic Design II                      | 3       | ART207                                                 |
| Elective  |                                       | 3       |                                                       |

**Total Credits** 62

The Associate in Arts degree does not indicate a specialized degree in a concentration.

### Overview

The Graphic Design concentration provides the initial basic courses needed for transfer to a Bachelor's degree program of study. Students should select their schedule with careful attention to the graduation requirements of their transfer institution. Students should be aware that some of the electives listed below may not be transferable.

### Career Outlook

The Graphic Design concentration prepares students to continue their studies at a professional art school, college or university. Employment as a designer is rare with a two-year degree. There are some entry-level positions in print ships, advertising agencies, publication or packaging firms that may require some basic layout and pre-press skills.

### Concentration Electives

- ART125 History of Art*
- ART136 Three-Dimensional Design*
- ART137 History of Graphic Design
- ART204 Design II
- ART216 Life Drawing (formerly ART107)
- ART255 Portfolio Preparation & Professional Practices for Artists**

* Transfers to UMass-Dartmouth

** Strongly recommended for transfer institutions that require a portfolio.
## Associate in Arts
### Health Education / Exercise Science / Recreation Concentration

Students who complete this concentration will satisfy the requirements MassTransfer. Students should consult with an advisor about the general education course requirements.

A candidate for the Health Education / Exercise Science / Recreation Concentration might select a schedule similar to this:

<table>
<thead>
<tr>
<th>Course #</th>
<th>Course Title</th>
<th>Credits</th>
<th>Prerequisites</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>First Semester</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ENL101</td>
<td>English Composition I</td>
<td>3</td>
<td>Appropriate scores in Reading Comprehension &amp; in Sentence Skills on CPT or grade of C or better in ENL020 and ENL050 or ESL201</td>
</tr>
<tr>
<td>MAT150</td>
<td>Elementary Statistics</td>
<td>3</td>
<td>MAT040 or MAT110 &amp; ENL020 or satisfactory basic skills assessment scores</td>
</tr>
<tr>
<td>BIO101</td>
<td>Concepts in Biology I</td>
<td>4</td>
<td>MAT030, ENL020 &amp; ENL050 or satisfactory basic skills assessment scores</td>
</tr>
<tr>
<td></td>
<td>Behavioral &amp; Social Sciences</td>
<td>3</td>
<td>None</td>
</tr>
<tr>
<td>FIT117</td>
<td>Personal Fitness</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td><strong>Second Semester</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ENL102</td>
<td>English Composition II</td>
<td>3</td>
<td>A grade of C or higher in ENL101</td>
</tr>
<tr>
<td>PSY101</td>
<td>General Psychology</td>
<td>3</td>
<td>ENL020 &amp; ENL050 or satisfactory basic skills assessment scores</td>
</tr>
<tr>
<td>BIO102</td>
<td>Concepts in Biology II</td>
<td>4</td>
<td>A grade of C or higher in BIO101</td>
</tr>
<tr>
<td>HEA132</td>
<td>Advanced First Aid and Emergency Care / Basic Life Support / First Responder</td>
<td>3</td>
<td>None</td>
</tr>
<tr>
<td></td>
<td>Humanities &amp; Fine Arts</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td><strong>Third Semester</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>BIO107</td>
<td>Human Anatomy and Physiology I</td>
<td>4</td>
<td>A grade of C or higher in CHM109 or BIO101 or CHM101</td>
</tr>
<tr>
<td>COM103</td>
<td>Human Communication</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>PSY233</td>
<td>Developmental Psychology: The Life Span</td>
<td>3</td>
<td>PSY101 &amp; ENL101</td>
</tr>
<tr>
<td></td>
<td>Life Fitness elective</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td><strong>Fourth Semester</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>BIO108</td>
<td>Human Anatomy and Physiology II</td>
<td>4</td>
<td>A grade of C or higher in BIO107</td>
</tr>
<tr>
<td></td>
<td>Life Fitness elective</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Humanities &amp; Fine Arts</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td></td>
<td>General Education elective</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Total Credits</td>
<td>61</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

The Associate in Arts degree does not indicate a specialized degree in a concentration.

### Overview
The student will be prepared to transfer into a four-year college or university bachelor’s degree program as a health education or exercise science major. After transferring, the student will develop a course of study to become proficient in the health and exercise sciences, athletic training/coaching, recreational leadership, and therapeutic recreation.

Students are encouraged to consult with their transfer institution to determine appropriate electives.

### Career Outlook
Entry-level employment opportunities in personal training, coaching, and recreational leadership usually require a minimum of a bachelor’s degree. Professional positions such as health or physical educators, athletic trainers, exercise physiologists, and therapeutic recreational leaders usually require a minimum of a master’s degree.
# Associate in Arts
## Health Sciences Concentration

Students who complete this concentration will satisfy the requirements of MassTransfer. Students should consult with an advisor about the general education course requirements. A candidate for the Health Sciences Concentration might select a schedule similar to this.

<table>
<thead>
<tr>
<th>Course #</th>
<th>Course Title</th>
<th>Credits</th>
<th>Prerequisites</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>First Semester</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ENL101</td>
<td>English Composition I</td>
<td>3</td>
<td>Appropriate scores in Reading Comprehension &amp; in Sentence Skills on CPT or grade of C or better in ENL020 and ENL050 or ESL201</td>
</tr>
<tr>
<td>COM103</td>
<td>Human Communication Behavioral &amp; Social Sciences (PSY101 or SOC106)</td>
<td>3</td>
<td>ENL010 or ESL102 or satisfactory basic skills assessment score</td>
</tr>
<tr>
<td></td>
<td>Behavioral &amp; Social Sciences (PSY101 or SOC106)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Natural or Physical Science (CHM109 or CHM101)</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>BIT103</td>
<td>Medical Terminology</td>
<td>3</td>
<td>ENL020 &amp; ENL050 or satisfactory basic skills assessment score</td>
</tr>
<tr>
<td><strong>Second Semester</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ENL102</td>
<td>English Composition II</td>
<td>3</td>
<td>A grade of C or higher in ENL101</td>
</tr>
<tr>
<td>PSY233</td>
<td>Developmental Psychology: The Life Span</td>
<td>3</td>
<td>PSY101 &amp; ENL101</td>
</tr>
<tr>
<td>GIT110</td>
<td>Microcomputer Applications Software</td>
<td>3</td>
<td>GIT102 or equivalent, ENL020 &amp; ENL050 or satisfactory basic skills assessment score</td>
</tr>
<tr>
<td></td>
<td>Health Sciences elective**</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td><strong>Third Semester</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Humanities &amp; Fine Arts</td>
<td>3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Health Sciences elective**</td>
<td>3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Health Sciences elective**</td>
<td>3</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Fourth Semester</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Humanities &amp; Fine Arts (COM201)</td>
<td>3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Mathematics/Quantitative Reasoning (MAT150)</td>
<td>3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Health Sciences elective**</td>
<td>3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Health Sciences elective**</td>
<td>3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>SPN100 (or) PRT100</td>
<td>Conversational Spanish (or) Conversational Brazilian Portuguese</td>
<td>3</td>
<td>ENL050 or satisfactory basic skills assessment score (or) ENL050 or satisfactory basic skills assessment score</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Total Credits</td>
<td>62</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

The Associate in Arts degree does not indicate a specialized degree in a concentration.

### Overview
This concentration is designed for the student who is interested in establishing the groundwork for a health career or is interested in pursuing an A.A. degree, and/or planning to transfer to a 4-year college. To optimize the student’s experience and success, the student is encouraged to work with an advisor or transfer counselor to select the appropriate elective courses for the career the student wishes to pursue. Successful completion of this concentration is not a guarantee of admission into a selective health program.

### Career Outlook
Health career roles continue to be in high demand in our service area and beyond. This concentration provides the student with a strong basic education on which to build knowledge for the specific healthcare profession of choice.

### Program Outcomes
With advisor consultation and upon successful completion of selected courses, the students are able to:
- Achieve the prerequisites and basic course knowledge to design a schedule to meet the requirements for a variety of health career educational programs at Cape Cod Community College and for transfer.
- Demonstrate basic knowledge in the social and natural sciences.
- Communicate effectively.
- Apply information literacy.
- Demonstrate an appreciation for art and culture.
- Discuss ethical issues.

*BIO105 Survey of Anatomy and Physiology will not fulfill the prerequisite for the CCCC Nursing or Dental Hygiene programs and may not transfer to a medically-oriented bachelor program.

** Health Sciences Electives
BIO108 Human Anatomy & Physiology II
BIO201 Microbiology
CNA117 Tri-level Nursing Assistant/Home Health Aide (6 credits)
HEA120 Stress Management for Optimal Health
HEA130 Standard First Aid & Basic Life Support (1 credit)
HEA201 Nutrition
MTC135 Intro to Complementary Healing Practices
NUR100 Pharmacology Calculations (1 credit)
**Associate in Arts**

**Human Services Concentration**

Students who complete this concentration will satisfy the requirements of MassTransfer. Students should consult with an advisor about the general education course requirements. A candidate for the Human Services Concentration might select a schedule similar to this.

<table>
<thead>
<tr>
<th>Course #</th>
<th>Course Title</th>
<th>Credits</th>
<th>Prerequisites</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>First Semester</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ENL101</td>
<td>English Composition I</td>
<td>3</td>
<td>Appropriate scores in Reading Comprehension &amp; in Sentence Skills on CPT or grade of C or better in ENL020 and ENL050 or ESL201</td>
</tr>
<tr>
<td>PSY101</td>
<td>General Psychology</td>
<td>3</td>
<td>ENL020 &amp; ENL050 or satisfactory basic skills assessment scores</td>
</tr>
<tr>
<td>HUS101</td>
<td>Introduction to Human Services**</td>
<td>3</td>
<td>None</td>
</tr>
<tr>
<td>COM103</td>
<td>Human Communication</td>
<td>3</td>
<td>ENL010 or ESL102 or satisfactory basic skills assessment score</td>
</tr>
<tr>
<td>SOC106</td>
<td>Principles of Sociology</td>
<td>3</td>
<td>ENL020 &amp; ENL050 or satisfactory basic skills assessment score</td>
</tr>
<tr>
<td><strong>Second Semester</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ENL102</td>
<td>English Composition II</td>
<td>3</td>
<td>A grade of C or higher in ENL101</td>
</tr>
<tr>
<td>MAT150</td>
<td>Elementary Statistics</td>
<td>3</td>
<td>MAT040 or MAT110 &amp; ENL020 or satisfactory basic skills assessment scores</td>
</tr>
<tr>
<td>HUS229</td>
<td>Introduction to Social Welfare** (formerly SOC229)</td>
<td>3</td>
<td>PSY101 or SOC106</td>
</tr>
<tr>
<td>HUS106</td>
<td>Treatment Modalities in Human Services**</td>
<td>3</td>
<td>PSY101</td>
</tr>
<tr>
<td>PSY208</td>
<td>Principles of Counseling and Crisis Intervention**</td>
<td>3</td>
<td>PSY101</td>
</tr>
<tr>
<td><strong>Third Semester</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>PSY201</td>
<td>Child Psychology (or)</td>
<td>3</td>
<td>PSY101 (or)</td>
</tr>
<tr>
<td>PSY202</td>
<td>Adolescent Psychology (or)</td>
<td></td>
<td>PSY101 (or)</td>
</tr>
<tr>
<td>PSY233</td>
<td>Developmental Psychology: Life Span</td>
<td></td>
<td>PSY101 &amp; ENL101</td>
</tr>
<tr>
<td>PSY209</td>
<td>Group Dynamics in Human Services**</td>
<td>3</td>
<td>PSY101 or SOC106</td>
</tr>
<tr>
<td></td>
<td>Natural or Physical Science</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Humanities &amp; Fine Arts</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>HUS202 (or)</td>
<td>Human Services Practicum (or)</td>
<td>3</td>
<td>PSY101 &amp; HUS101; Co-requisite: PSY208</td>
</tr>
<tr>
<td>HUS204</td>
<td>Addictions Practicum**</td>
<td></td>
<td>COM103, PSY101, HUS101 &amp; HUS104; Co-req: HEA120</td>
</tr>
<tr>
<td><strong>Fourth Semester</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Humanities &amp; Fine Arts</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Natural or Physical Science</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>GOV111</td>
<td>American Government (or)</td>
<td>3</td>
<td>None (or)</td>
</tr>
<tr>
<td>HIS103</td>
<td>U.S. History to 1865 (or)</td>
<td></td>
<td>None; ENL020 &amp; ENL050 recommended (or)</td>
</tr>
<tr>
<td>HIS104</td>
<td>U.S. History since 1865</td>
<td></td>
<td>None; ENL020 &amp; ENL050 recommended</td>
</tr>
<tr>
<td></td>
<td>Elective*</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>HUS203 (or)</td>
<td>Advanced Human Services Practicum (or)</td>
<td>3</td>
<td>ENL101, HUS202 &amp; PSY209</td>
</tr>
<tr>
<td>HUS205</td>
<td>Advanced Addictions Practicum**</td>
<td></td>
<td>ENL101, HUS102, HUS204, PSY208 &amp; PSY209; Co-req: HUS106</td>
</tr>
<tr>
<td><strong>Total Credits</strong></td>
<td></td>
<td>62</td>
<td></td>
</tr>
</tbody>
</table>

The Associate in Arts degree does not indicate a specialized degree in a concentration.

**Overview**

A student who is interested in transferring into a four-year undergraduate program in the area of human services can take the first two years of study at Cape Cod Community College.

**Career Outlook**

This suggested course of study provides the basic curriculum for pursuing a major in the human services and related areas which include social work and other careers in public and private human service agencies.

* Recommended elective choices for areas of interest within the Human Services concentration. Advisors and students should be aware that many of these electives have prerequisites that are not included in the total credits.

Alcohol & Substance Abuse electives
HUS104  Introduction to Alcohol & Substance Abuse
HUS102  Mental Health, Substance Abuse & Families

Education electives
ECE105  Introduction to Young Children with Special Needs

Gerontology electives
SOC220  Sociology of Health & Healthcare
SOC232  Sociology of Aging
PSY233  Developmental Psychology

Child & Youth electives
PSY201  Child Psychology
PSY202  Adolescent Psychology
SOC210  Marriage & Family
PSY216  Social Science Research Methods

Abnormal electives
SOC215  Social Problems
PSY235  Cognitive Psychology
SOC205  Juvenile Delinquency
PSY207  Abnormal Psychology
PSY225  Social Psychology

**Following the planned curriculum will academically prepare the student for the Human Services – Board Certified Practitioner exam."
Associate in Arts
Liberal Arts Concentration

Students who complete this concentration will satisfy the requirements of MassTransfer. Students should consult with an advisor about the general education course requirements.

A candidate for the Liberal Arts Concentration might select a schedule similar to this.

<table>
<thead>
<tr>
<th>Course #</th>
<th>Course Title</th>
<th>Credits</th>
<th>Prerequisites</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENL101</td>
<td>English Composition I</td>
<td>3</td>
<td>Appropriate scores in Reading Comprehension &amp; in Sentence Skills on CPT or grade of C or better in ENL020 and ENL050 or ESL201</td>
</tr>
<tr>
<td>PSY101</td>
<td>General Psychology</td>
<td>3</td>
<td>ENL020 &amp; ENL050 or satisfactory basic skills assessment score</td>
</tr>
<tr>
<td></td>
<td>Behavioral &amp; Social Sciences</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Mathematics/Quantitative Reasoning</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Elective (or) Humanities &amp; Fine Arts (Modern Language)*</td>
<td>3/4</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Second Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENL102</td>
</tr>
<tr>
<td>COM103</td>
</tr>
<tr>
<td>Behavioral &amp; Social Sciences</td>
</tr>
<tr>
<td>Humanities &amp; Fine Arts</td>
</tr>
<tr>
<td>Elective (or) Humanities &amp; Fine Arts (Modern Language)*</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Third Semester</th>
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</thead>
<tbody>
<tr>
<td>Natural or Physical Science</td>
</tr>
<tr>
<td>Humanities &amp; Fine Arts</td>
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<tr>
<td>Behavioral &amp; Social Sciences</td>
</tr>
<tr>
<td>Elective**</td>
</tr>
<tr>
<td>Elective**</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Fourth Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>Natural or Physical Science</td>
</tr>
<tr>
<td>Humanities &amp; Fine Arts</td>
</tr>
<tr>
<td>Behavioral &amp; Social Sciences</td>
</tr>
<tr>
<td>Elective**</td>
</tr>
<tr>
<td>Elective**</td>
</tr>
</tbody>
</table>

Total Credits: 62/64

The Associate in Arts degree does not indicate a specialized degree in a concentration.

Overview
The Liberal Arts concentration is designed for students who have not yet chosen a concentration. It prepares students to transfer to a baccalaureate degree-granting college or university as a junior. Students are encouraged to take electives in disciplines in which they may major at a four-year institution. Specific course choices should be made in consultation with an academic advisor and requirements of the transfer institutions.

Career Outlook
Potential careers will vary depending upon the chosen major. A bachelor's degree is usually the minimum requirement for entry into many fields, and additional graduate work may be necessary as well.

*A student is encouraged to study a foreign language, because many four-year colleges require a proficiency level equivalent to two years of college work.

**Electives should be carefully chosen to provide a broad arts and sciences foundation. Over specialization or narrow course selection is not encouraged for those following this concentration.
Associate in Arts

Mass Communication Concentration

Students who complete this concentration will satisfy the requirements of MassTransfer. Students should consult with an advisor about the general education course requirements.

A candidate for the Mass Communication Concentration might select a schedule similar to this.

<table>
<thead>
<tr>
<th>Course #</th>
<th>Course Title</th>
<th>Credits</th>
<th>Prerequisites</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>First Semester</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ENL101</td>
<td>English Composition I</td>
<td>3</td>
<td>Appropriate scores in Reading Comprehension &amp; in Sentence Skills on CPT or grade of C or better in ENL020 and ENL050 or ESL201</td>
</tr>
<tr>
<td>COM103</td>
<td>Human Communication</td>
<td>3</td>
<td>ENL010 or ESL102 or satisfactory basic skills assessment score</td>
</tr>
<tr>
<td>COM105</td>
<td>Survey of Mass Communication</td>
<td>3</td>
<td>ENL010 or satisfactory reading comprehension score on the basic skills assessment</td>
</tr>
<tr>
<td>PSY101</td>
<td>General Psychology</td>
<td>3</td>
<td>ENL020 &amp; ENL050 or satisfactory basic skills assessment score</td>
</tr>
<tr>
<td></td>
<td>Mass Communication elective</td>
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<td></td>
</tr>
<tr>
<td><strong>Second Semester</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ENL102</td>
<td>English Composition II</td>
<td>3</td>
<td>A grade of C or higher in ENL101</td>
</tr>
<tr>
<td>GOV111</td>
<td>American Government</td>
<td>3</td>
<td>None</td>
</tr>
<tr>
<td>Mathematics/Quantitative Reasoning</td>
<td>3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Mass Communication elective</td>
<td>3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>COM120</td>
<td>Introduction to Film (formerly COM220)</td>
<td>3</td>
<td>ENL101</td>
</tr>
<tr>
<td><strong>Third Semester</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Mass Communication elective</td>
<td>3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Mass Communication elective</td>
<td>3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Natural or Physical Science</td>
<td>4</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Humanities &amp; Fine Arts</td>
<td>3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Elective</td>
<td>3</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Fourth Semester</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Humanities &amp; Fine Arts</td>
<td>3</td>
<td></td>
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</tr>
<tr>
<td>Mass Communication elective</td>
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<td></td>
<td></td>
</tr>
<tr>
<td>Behavioral &amp; Social Sciences</td>
<td>3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Natural or Physical Science</td>
<td>4</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Mass Communication Elective</td>
<td>3</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Total Credits:</strong></td>
<td>62</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

The Associate in Arts degree does not indicate a specialized degree in a concentration.

Overview
This concentration is designed to introduce a student to required and elective course work that develops communication skills and techniques as well as the social responsibilities necessary to utilize them properly. The concentration is designed to facilitate transfer to a bachelor's degree program in the field.

Career Outlook
Any student planning a career in advertising, broadcasting, journalism, media graphics, or related areas may undertake the first two years of a four-year undergraduate program by electing courses in this concentration. Students should note that entry-level job requirements in these areas often call for a minimum of a bachelor's degree.

Mass Communication Electives
- ART105 Visual Language (formerly Visual Fundamentals)
- ART205 Illustration I
- ART206 Illustration II
- ART207 Graphic Design I
- ART208 Graphic Design II
- ART214 Digital Imaging I
- ART215 Digital Imaging II
- COM113 Radio Broadcasting
- COM221 American Film (formerly COM121)
- COM222 International Cinema
- COM262 Mass Communication Cooperative Work Experience
- ENL161 Journalism I
- ENL163 Journalism II
- ENL209 Creative Writing
- MKT103 Advertising
# Associate in Arts
## Modern Language Concentration

Students who complete this concentration will satisfy the requirements of MassTransfer. Students should consult with an advisor about the general education course requirements.

A candidate for the Modern Language Concentration might select a schedule similar to this.

<table>
<thead>
<tr>
<th>Course #</th>
<th>Course Title</th>
<th>Credits</th>
<th>Prerequisites</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>First Semester</strong></td>
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<td></td>
<td></td>
</tr>
<tr>
<td>ENL101</td>
<td>English Composition I</td>
<td>3</td>
<td>Appropriate scores in Reading Comprehension &amp; in Sentence Skills on CPT or grade of C or better in ENL020 and ENL050 or ESL201</td>
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<tr>
<td>HIS160</td>
<td>European History I</td>
<td>3</td>
<td>ENL020 &amp; ENL050 or satisfactory basic skills assessment score</td>
</tr>
<tr>
<td>COM103</td>
<td>Human Communication</td>
<td>3</td>
<td>ENL010 or ESL201 or satisfactory basic skills assessment score</td>
</tr>
<tr>
<td>Humanities &amp; Fine Arts (Elementary Language I)</td>
<td>4</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Mathematics/Quantitative Reasoning</td>
<td>3/4</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Second Semester</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ENL102</td>
<td>English Composition II</td>
<td>3</td>
<td>A grade of C or higher in ENL101</td>
</tr>
<tr>
<td>HIS162</td>
<td>European History II</td>
<td>3</td>
<td>ENL020 &amp; ENL050 or satisfactory basic skills assessment score</td>
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<tr>
<td>Humanities &amp; Fine Arts (Elementary Language II)</td>
<td>4</td>
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</tr>
<tr>
<td>ART126 (or)</td>
<td>History of Art: Renaissance to Romanticism (or Music Appreciation)</td>
<td>3</td>
<td>ENL010 &amp; ENL040 or satisfactory basic skills assessment score</td>
</tr>
<tr>
<td>MUS100 (or)</td>
<td></td>
<td></td>
<td>ENL010 &amp; ENL040 or satisfactory basic skills assessment score</td>
</tr>
<tr>
<td><strong>Third Semester</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Natural or Physical Science</td>
<td>4</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ENL201</td>
<td>World Literature I</td>
<td>3</td>
<td>ENL102</td>
</tr>
<tr>
<td>Humanities &amp; Fine Arts (Intermediate Language I)</td>
<td>4</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Humanities &amp; Fine Arts (Elementary Second Language I)</td>
<td>4</td>
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<td></td>
</tr>
<tr>
<td><strong>Fourth Semester</strong></td>
<td></td>
<td></td>
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<tr>
<td>Natural or Physical Science</td>
<td>4</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ENL202</td>
<td>World Literature II</td>
<td>3</td>
<td>ENL102</td>
</tr>
<tr>
<td>Humanities &amp; Fine Arts (Intermediate Language II)</td>
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<tr>
<td>Humanities &amp; Fine Arts (Elementary Second Language II)</td>
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</tr>
<tr>
<td>Total Credits:</td>
<td>62/63</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

The Associate in Arts degree does not indicate a specialized degree in a concentration.

---

### Overview

Students seeking a bachelor's degree may major or minor in a modern language or world literature. Language study empowers students to communicate in a language other than their own, to compare what they know and experience at home, to make personal connections to the world community, as well as to use language with greater effectiveness in their lives.

### Career Outlook

Social scientists consider that communication across cultural boundaries is a core competency of the twenty-first century. Students who demonstrate effective functioning in diverse cultures and climates are attractive to global employers. Job applicants with second and third language skills have an advantage over monolingual candidates.

**Note:** A student who plans to study abroad has various options available; refer to International Studies.
Students who complete this concentration will satisfy the requirements of MassTransfer. Students should consult with an advisor about the general education course requirements.

A candidate for the Music Concentration might select a schedule similar to this.

<table>
<thead>
<tr>
<th>Course #</th>
<th>Course Title</th>
<th>Credits</th>
<th>Prerequisites</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>First Semester</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ENL101</td>
<td>English Composition I</td>
<td>3</td>
<td>Appropriate scores in Reading Comprehension &amp; in Sentence Skills on CPT or grade of C or better in ENL020 and ENL050 or ESL201</td>
</tr>
<tr>
<td>MUS101</td>
<td>Elementary Music Theory</td>
<td>3</td>
<td>ENL010 &amp; ENL040 or satisfactory basic skills assessment score</td>
</tr>
<tr>
<td>MUS102</td>
<td>Music History I</td>
<td>3</td>
<td>ENL010 &amp; ENL040 or satisfactory basic skills assessment score</td>
</tr>
<tr>
<td>MUS120</td>
<td>Applied Music</td>
<td>1</td>
<td>Assessment Audition</td>
</tr>
<tr>
<td></td>
<td>Music elective(s)</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td><strong>Second Semester</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ENL102</td>
<td>English Composition II</td>
<td>3</td>
<td>A grade of C or higher in ENL101</td>
</tr>
<tr>
<td>COM103</td>
<td>Human Communication</td>
<td>3</td>
<td>ENL010 or ESL102 or satisfactory basic skills assessment score</td>
</tr>
<tr>
<td>MUS202</td>
<td>Advanced Music Theory (formerly MUS142)</td>
<td>3</td>
<td>MUS101 or permission of instructor</td>
</tr>
<tr>
<td>MUS103</td>
<td>Music History II</td>
<td>3</td>
<td>ENL010 &amp; ENL040 or satisfactory basic skills assessment score</td>
</tr>
<tr>
<td>MUS120</td>
<td>Applied Music</td>
<td>1</td>
<td>Assessment Audition</td>
</tr>
<tr>
<td></td>
<td>Music elective(s)</td>
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<td></td>
</tr>
<tr>
<td><strong>Third Semester</strong></td>
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<td></td>
<td></td>
</tr>
<tr>
<td>MUS121</td>
<td>Advanced Applied Music</td>
<td>2</td>
<td>Interview/Assessment Audition</td>
</tr>
<tr>
<td></td>
<td>Natural or Physical Science</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Behavioral &amp; Social Sciences</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Humanities &amp; Fine Arts</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Elective</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td><strong>Fourth Semester</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MUS121</td>
<td>Advanced Applied Music</td>
<td>2</td>
<td>Interview/Assessment Audition</td>
</tr>
<tr>
<td></td>
<td>Natural or Physical Science</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Behavioral &amp; Social Sciences</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Behavioral &amp; Social Sciences</td>
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<td>Music elective</td>
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<tr>
<td>Total Credits:</td>
<td>60/61</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Overview
The Music concentration provides the initial basic courses that will be needed to transfer to a bachelor’s degree program at a four-year institution.

Career Outlook
The world of music is constantly expanding in new directions. Careers are available in music education, sound recording, music business, and other ancillary music professions. Musicians with the broadest possible range of experiences are the most likely to succeed.

Music Concentration Electives
MUS100    Music Appreciation (3 credits)
MUS116    History of Rock Music (3 credits)
MUS122G   Beginning Guitar (1 credit)
MUS122P   Beginning Piano (1 credit)
MUS123    Jazz Combo (1 credit)
MUS124    Guitar II (1 credit)

The Associate in Arts degree does not indicate a specialized degree in a concentration.
Associate in Arts
Philosophy Concentration

Students who complete this concentration will satisfy the requirements of MassTransfer. Students should consult with an advisor about the general education course requirements.

A candidate for the Philosophy Concentration might select a schedule similar to this.

<table>
<thead>
<tr>
<th>Course #</th>
<th>Course Title</th>
<th>Credits</th>
<th>Prerequisites</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>First Semester</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ENL101</td>
<td>English Composition I</td>
<td>3</td>
<td>Appropriate scores in Reading Comprehension &amp; in Sentence Skills on CPT or grade of C or better in ENL020 and ENL050 or ESL201</td>
</tr>
<tr>
<td>COM103</td>
<td>Human Communication</td>
<td>3</td>
<td>ENL010 or ESL102 or satisfactory basic skills assessment score</td>
</tr>
<tr>
<td>PHI125</td>
<td>Contemporary Ethical Problems</td>
<td>3</td>
<td>ENL101</td>
</tr>
<tr>
<td>ANT107</td>
<td>Introduction to Anthropology</td>
<td>3</td>
<td>None</td>
</tr>
<tr>
<td>(or)</td>
<td></td>
<td></td>
<td>ENL020 &amp; ENL050 or satisfactory basic skills assessment score</td>
</tr>
<tr>
<td>SOC106</td>
<td>Principles of Sociology</td>
<td>3</td>
<td>None</td>
</tr>
<tr>
<td>HIS160</td>
<td>European History I</td>
<td>3</td>
<td>ENL020 &amp; ENL050 or satisfactory basic skills assessment score</td>
</tr>
<tr>
<td><strong>Second Semester</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ENL102</td>
<td>English Composition II</td>
<td>3</td>
<td>A grade of C or higher in ENL101</td>
</tr>
<tr>
<td>PHI130</td>
<td>Introduction to Philosophy</td>
<td>3</td>
<td>None</td>
</tr>
<tr>
<td>HIS162</td>
<td>European History II</td>
<td>3</td>
<td>ENL020 &amp; ENL050 or satisfactory basic skills assessment score</td>
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<tr>
<td></td>
<td>Mathematics/Quantitative Reasoning*</td>
<td>3/4</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Humanities &amp; Fine Arts(Literature)</td>
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<td></td>
</tr>
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<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>REL122</td>
<td>Concepts of Western Religion</td>
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</tr>
<tr>
<td>PHI140</td>
<td>History of Western Philosophy I</td>
<td>3</td>
<td>PHI130 or ENL101</td>
</tr>
<tr>
<td></td>
<td>Natural or Physical Science**</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Mathematics/Quantitative Reasoning*</td>
<td>3/4</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Humanities &amp; Fine Arts</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td><strong>Fourth Semester</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>REL123</td>
<td>Concepts of Eastern Religion</td>
<td>3</td>
<td>None</td>
</tr>
<tr>
<td>PHI141</td>
<td>History of Western Philosophy II</td>
<td>3</td>
<td>PHI130 or ENL101</td>
</tr>
<tr>
<td></td>
<td>Natural or Physical Science**</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>PHI131</td>
<td>Logic</td>
<td>3</td>
<td>PHI130 or ENL101</td>
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<td>Humanities &amp; Fine Arts</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Total Credits:</td>
<td></td>
<td>62/64</td>
<td></td>
</tr>
</tbody>
</table>

The Associate in Arts degree does not indicate a specialized degree in a concentration.

Overview
The Philosophy concentration provides an intense and focused program on thinking and writing about the most basic intellectual activities in the human experience, including a broad range of historical, religious, social and ethical considerations.

Career Outlook
The Philosophy concentration provides a solid base from which a student could continue in a bachelor's program in any of the social sciences or liberal arts. The Philosophy concentration is also an excellent long-range preparation for graduate work in any area of specialization, particularly in law or in medical school.

*For the mathematically adept or for the scientifically inclined, this should be Precalculus. For the individual less interested in these subjects, this should be Elementary Statistics.

**For the scientifically inclined, this should be Physics I, II; University Physics I, II; General Chemistry I, II; or Concepts in Biology I.

For the individual less interested in science, this should be Survey of Physics; Survey of Chemistry; Intro to Environmental Science; or Introduction to Earth Science.

Note: Some transfer colleges require proficiency in a modern language at the intermediate level.
Associate in Arts
Political Science Concentration

Students who complete this concentration will satisfy the requirements of MassTransfer. Students should consult with an advisor about the general education course requirements.

A candidate for the Political Science Concentration might select a schedule similar to this.

<table>
<thead>
<tr>
<th>Course #</th>
<th>Course Title</th>
<th>Credits</th>
<th>Prerequisites</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>First Semester</strong></td>
<td></td>
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</tr>
<tr>
<td>ENL101</td>
<td>English Composition I</td>
<td>3</td>
<td>Appropriate scores in Reading Comprehension &amp; in Sentence Skills on CPT or grade of C or better in ENL020 and ENL050 or ESL201</td>
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<tr>
<td>COM105</td>
<td>Survey of Mass Communication</td>
<td>3</td>
<td>ENL010 or satisfactory reading comprehension score on the basic skills assessment</td>
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<tr>
<td>GOV111</td>
<td>American Government</td>
<td>3</td>
<td>None</td>
</tr>
<tr>
<td></td>
<td>Humanities &amp; Fine Arts</td>
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<td></td>
</tr>
<tr>
<td></td>
<td>Elective*</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td><strong>Second Semester</strong></td>
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<td></td>
<td></td>
</tr>
<tr>
<td>ENL102</td>
<td>English Composition II</td>
<td>3</td>
<td>A grade of C or higher in ENL101</td>
</tr>
<tr>
<td>GEO104</td>
<td>Geography: Culture and Environment</td>
<td>3</td>
<td>None; ENL020 &amp; ENL050 or satisfactory basic skills assessment scores recommended</td>
</tr>
<tr>
<td>GOV110</td>
<td>The American Presidency</td>
<td>3</td>
<td>None</td>
</tr>
<tr>
<td></td>
<td>Humanities &amp; Fine Arts</td>
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</tr>
<tr>
<td></td>
<td>Elective*</td>
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</tr>
<tr>
<td><strong>Third Semester</strong></td>
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<tr>
<td></td>
<td>Humanities &amp; Fine Arts</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>MAT150</td>
<td>Elementary Statistics</td>
<td>3</td>
<td>MAT040 or MAT110 &amp; ENL020 or satisfactory basic skills assessment scores</td>
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<tr>
<td>GOV101</td>
<td>Comparative Politics</td>
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<td>None</td>
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<tr>
<td></td>
<td>Elective*</td>
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<tr>
<td><strong>Fourth Semester</strong></td>
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<tr>
<td></td>
<td>Natural or Physical Science</td>
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</tr>
<tr>
<td>GOV102</td>
<td>International Relations</td>
<td>3</td>
<td>ENL050 or satisfactory basic skills assessment score</td>
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<td>Elective*</td>
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<tr>
<td><strong>Total Credits:</strong></td>
<td></td>
<td></td>
<td>62</td>
</tr>
</tbody>
</table>

The Associate in Arts degree does not indicate a specialized degree in a concentration.

**Overview**
The student who is interested in studying political science is exposed to a broad range of courses which cover not only the structure and operation of national governmental institutions, but also more generally political thought, governments other than our own, and international relations. Students who complete this concentration are prepared for transfer to a bachelor’s program.

**Career Outlook**
This concentration is for students interested in any level of government, or political involvement, the Foreign Service, the law profession, teaching, public administration, or in the liberal arts. Students should note that entry-level job requirements in these areas almost always call for a minimum of a bachelor’s degree, and knowledge of a foreign language is recommended.

*Suggested electives:*
COM203 Public Speaking
COM204 Persuasive Communication
COM207 Argumentation and Debate
COM213 Advanced Debate
ECO117 Principles of Macroeconomics
ECO118 Principles of Microeconomics
HIS103 U.S. History to 1865
HIS104 U.S. History since 1865
HIS119 World History I
HIS120 World History II
PHI130 Introduction to Philosophy
PHI140 History of Western Philosophy I
PHI141 History of Western Philosophy II
PSY101 General Psychology
REL122 Concepts of Western Religion
REL123 Concepts of Eastern Religion
SOC106 Principles of Sociology
Associate in Arts  
Psychology Concentration

Students who complete this concentration will satisfy the requirements of MassTransfer. Students should consult with an advisor about the general education course requirements.

A candidate for the Psychology Concentration might select a schedule similar to this.

<table>
<thead>
<tr>
<th>Course #</th>
<th>Course Title</th>
<th>Credits</th>
<th>Prerequisites</th>
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<tbody>
<tr>
<td><strong>First Semester</strong></td>
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<tr>
<td>ENL101</td>
<td>English Composition I</td>
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<td>Appropriate scores in Reading Comprehension &amp; in Sentence Skills on CPT or grade of C or better in ENL020 and ENL050 or ESL201</td>
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<tr>
<td>COM103</td>
<td>Human Communication</td>
<td>3</td>
<td>ENL010 or ESL102 or satisfactory basic skills assessment score</td>
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<tr>
<td>PSY101</td>
<td>General Psychology</td>
<td>3</td>
<td>ENL020 &amp; ENL050 or satisfactory basic skills assessment scores</td>
</tr>
<tr>
<td>PSY101</td>
<td>Humanities &amp; Fine Arts</td>
<td>3</td>
<td></td>
</tr>
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<td><strong>Second Semester</strong></td>
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<td></td>
<td></td>
</tr>
<tr>
<td>ENL102</td>
<td>English Composition II</td>
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<td>A grade of C or higher in ENL101</td>
</tr>
<tr>
<td>BIO101</td>
<td>Concepts in Biology I</td>
<td>4</td>
<td>MAT030, ENL020 &amp; ENL050 or satisfactory basic skills assessment scores</td>
</tr>
<tr>
<td>SOC106</td>
<td>Principles of Sociology</td>
<td>3</td>
<td>ENL020 &amp; ENL050 or satisfactory basic skills assessment scores</td>
</tr>
<tr>
<td>PSY101</td>
<td>Behavioral &amp; Social Sciences (Psychology)</td>
<td>3</td>
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<tr>
<td>PSY101</td>
<td>Elective</td>
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<tr>
<td><strong>Third Semester</strong></td>
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<tr>
<td>Natural or Physical Science</td>
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</tr>
<tr>
<td>Behavioral &amp; Social Sciences</td>
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<td></td>
</tr>
<tr>
<td>Mathematics/Quantitative Reasoning*</td>
<td>3/4</td>
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<td>Humans &amp; Fine Arts</td>
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</tr>
<tr>
<td>Behavioral &amp; Social Sciences (Psychology)</td>
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<tr>
<td><strong>Fourth Semester</strong></td>
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<tr>
<td>Humans &amp; Fine Arts</td>
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</tr>
<tr>
<td>Behavioral &amp; Social Sciences (Psychology)</td>
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<td>Elective</td>
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<tr>
<td>Elective</td>
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<tr>
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<td>3</td>
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<tr>
<td><strong>Total Credits:</strong> 62/63</td>
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</tbody>
</table>

The Associate in Arts degree does not indicate a specialized degree in a concentration.

**Overview**

A student interested in studying psychology and/or transferring into a four-year undergraduate program in the liberal arts can take the first two years of study at Cape Cod Community College.

**Career Outlook**

This suggested course of study provides basic curriculum for those considering a career in psychology, counseling, social work, employee assistance work, human resource work or any profession requiring an in-depth understanding of human behavior.

*MAT150 Elementary Statistics recommended.

**Note:** In choosing electives, some transfer colleges require proficiency in a modern language at the intermediate level. In that case, the student may need to elect a four-semester sequence.
## Associate in Arts
### Public Relations Concentration

Students who complete this concentration will satisfy the requirements of MassTransfer. Students should consult with an advisor about the general education course requirements.

A candidate for the Public Relations Concentration might select a schedule similar to this.

<table>
<thead>
<tr>
<th>Course #</th>
<th>Course Title</th>
<th>Credits</th>
<th>Prerequisites</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>First Semester</strong></td>
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<td></td>
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</tr>
<tr>
<td>ENL101</td>
<td>English Composition I</td>
<td>3</td>
<td>Appropriate scores in Reading Comprehension &amp; in Sentence Skills on CPT or grade of C or better in ENL020 and ENL050 or ESL201</td>
</tr>
<tr>
<td>COM103</td>
<td>Human Communication</td>
<td>3</td>
<td>ENL010 or ESL102 or satisfactory basic skills assessment score</td>
</tr>
<tr>
<td>COM105</td>
<td>Survey of Mass Communication</td>
<td>3</td>
<td>ENL010 or satisfactory reading comprehension score on the basic skills assessment</td>
</tr>
<tr>
<td>PSY101</td>
<td>General Psychology</td>
<td>3</td>
<td>ENL020 &amp; ENL050 or satisfactory basic skills assessment scores</td>
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<tr>
<td></td>
<td>Behavioral &amp; Social Sciences (History)</td>
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<td></td>
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<td><strong>Second Semester</strong></td>
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<td></td>
<td></td>
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<tr>
<td>ENL102</td>
<td>English Composition II</td>
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<tr>
<td>PHI125</td>
<td>Contemporary Ethical Problems (or) Ethics</td>
<td>3</td>
<td>ENL101 (or) ENL101 or PHI130</td>
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<tr>
<td>COM120</td>
<td>Introduction to Film (formerly COM220)(or)</td>
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<tr>
<td>THR101</td>
<td>Introduction to Theater (or)</td>
<td></td>
<td>ENL101 (or)</td>
</tr>
<tr>
<td>COM222</td>
<td>International Cinema (or)</td>
<td></td>
<td>COM103 or ENL101 or THR103</td>
</tr>
<tr>
<td>COM205</td>
<td>Oral Interpretation/Readers Theater</td>
<td></td>
<td></td>
</tr>
<tr>
<td>COM203</td>
<td>Public Speaking</td>
<td>3</td>
<td>COM103 or ENL101</td>
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<tr>
<td></td>
<td>Mathematics/Quantitative Reasoning</td>
<td>3/4</td>
<td></td>
</tr>
<tr>
<td><strong>Third Semester</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>GOV111</td>
<td>American Government</td>
<td>3</td>
<td>None</td>
</tr>
<tr>
<td></td>
<td>Humanities &amp; Fine Arts (Literature)**</td>
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<tr>
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<td>Concentration elective*</td>
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<tr>
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<td>Natural or Physical Science*****</td>
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<td></td>
<td>Concentration elective*</td>
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<tr>
<td><strong>Fourth Semester</strong></td>
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<tr>
<td></td>
<td>Natural or Physical Science*****</td>
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</tr>
<tr>
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<td>Humanities &amp; Fine Arts (Literature)**</td>
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<tr>
<td>MAT140</td>
<td>Survey of Mathematics</td>
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<tr>
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<td>Humanities &amp; Fine Arts (or) Behavioral &amp; Social Sciences (Cultural Diversity)**</td>
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<tr>
<td></td>
<td>Concentration elective*</td>
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<td></td>
</tr>
</tbody>
</table>

Total Credits: 62

The Associate in Arts degree does not indicate a specialized degree in a concentration.

### Overview
This concentration is designed to fulfill the first two years of a four-year Bachelor of Arts degree in Public Relations or a similar communications area of study. Completion of this concentration should allow a student to transfer to almost any public or private four-year college at the junior-level in this academic area.

### Career Outlook
Aside from providing a solid foundation for pursuing a bachelor's degree in this area, the student will receive preparation in the various skills required for successful career performance in Public Relations or related area of communication. Students should note that entry-level job requirements in this area almost always call for a minimum of a bachelor's degree.

*CConcentration electives:
- COM113 Radio Broadcasting
- COM201 Interpersonal Communication
- COM202 Small Group Communication
- COM204 Persuasive Communication
- COM205 Oral Interpretation / Readers Theater
- COM206 Communication in Current Settings
- COM221 American Film (formerly COM121)
- ENL161 Journalism I
- ENL163 Journalism II
- MKT103 Advertising
- THR103 Acting I

**Cultural Diversity electives** (choose one from the list below):
- HIS215 Women in United States History
- PSY219 Psychology of Women
- SOC208 Race, Gender, and Class in the U.S.

***Literature electives** Any Literature course except ENL120 Introduction to Children's Literature.

****Humanities & Fine Arts electives** (choose one from the list below):
- ART125 History of Art: Stone Age to Gothic
- HUM102 Humanities: Perception through the Arts
- MUS101 Music History I
- MUS103 Music History II

*****Natural or Physical Science electives** (choose one of the two-semester science sequences listed below):
- CHM101 General Chemistry I
- CHM102 General Chemistry II
- PHY101 Physics I
- PHY102 Physics II
Associate in Arts
Science, Mathematics, and Pre-Engineering Concentration

Students who complete this concentration will satisfy the requirements of MassTransfer. Students should consult with an advisor about the general education course requirements.

A candidate for the Science, Mathematics, and Pre-Engineering Concentration might select a schedule similar to this.

<table>
<thead>
<tr>
<th>Course #</th>
<th>Course Title</th>
<th>Credits</th>
<th>Prerequisites</th>
</tr>
</thead>
<tbody>
<tr>
<td>First Semester</td>
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<tr>
<td>ENL101</td>
<td>English Composition I</td>
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<td>Appropriate scores in Reading Comprehension &amp; in Sentence Skills on CPT or grade of C or better in ENL020 and ENL050 or ESL201</td>
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<tr>
<td>Mathematics/Quantitative Reasoning</td>
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</tr>
<tr>
<td>Natural or Physical Science*</td>
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<td></td>
</tr>
<tr>
<td>Behavioral &amp; Social Sciences</td>
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<td></td>
</tr>
<tr>
<td>Elective</td>
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<td></td>
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<tr>
<td>Second Semester</td>
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<td></td>
<td></td>
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<tr>
<td>ENL102</td>
<td>English Composition II</td>
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<td>A grade of C or higher in ENL101</td>
</tr>
<tr>
<td>Mathematics/Quantitative Reasoning</td>
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</tr>
<tr>
<td>Natural or Physical Science*</td>
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<td></td>
<td></td>
</tr>
<tr>
<td>COM103</td>
<td>Human Communication</td>
<td>3</td>
<td>ENL010 or ESL102 or satisfactory basic skills assessment score</td>
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<td>Elective</td>
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<td></td>
</tr>
<tr>
<td>Third Semester</td>
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<tr>
<td>Humanities &amp; Fine Arts</td>
<td>3</td>
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<tr>
<td>Behavioral &amp; Social Sciences</td>
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<td>Natural or Physical Science**</td>
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<td>Computer Science</td>
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<td>Behavioral &amp; Social Sciences</td>
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<td>Natural or Physical Science**</td>
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</tr>
</tbody>
</table>

Total Credits: 62/68

The Associate in Arts degree does not indicate a specialized degree in a concentration.

Overview
Students in the Science, Mathematics, and Pre-Engineering concentration learn to solve problems and work in teams to analyze, conduct, and report on scientific experiments. Students generally focus on mathematics or one of the natural sciences, while completing the general education requirements that satisfy MassTransfer. An emphasis on science and mathematics is recommended for students interested in pursuing other degrees such as engineering, medical (including nursing), law, and economics.

Career Outlook
Most students in the Science, Mathematics, and Pre-Engineering concentration continue their studies at a four-year school. Students who have chosen a particular field should check the requirements of the transfer institution. Students may pursue various careers in biology, chemistry, physics, engineering, environmental science, medicine, dentistry, optometry, veterinary science, naturopathy, pharmacy, alternative medicine, chiropractic, and mathematics.


*The student who pursues a Mathematics Field should select: PHY211 University Physics I & PHY212 University Physics II CHM101 General Chemistry I & CHM102 General Chemistry II MAT240 Calculus I, MAT250 Calculus II, & MAT260 Calculus III MAT245 Linear Algebra

**The student who pursues a Mathematics Field may select Mathematics courses instead of a Natural Science course.
## Associate in Arts
### Sociology / Anthropology Concentration

Students who complete this concentration will satisfy the requirements of MassTransfer. Students should consult with an advisor about the general education course requirements.

A candidate for the Sociology / Anthropology Concentration might select a schedule similar to this.

<table>
<thead>
<tr>
<th>Course #</th>
<th>Course Title</th>
<th>Credits</th>
<th>Prerequisites</th>
</tr>
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<tbody>
<tr>
<td><strong>First Semester</strong></td>
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<tr>
<td>ENL101</td>
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<td>Appropriate scores in Reading Comprehension &amp; in Sentence Skills on CPT or grade of C or better in ENL020 and ENL050 or ESL201</td>
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<td>SOC106</td>
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<td>ENL020 &amp; ENL050 or satisfactory basic skills assessment score</td>
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<td>HIS103 (or) GOV111</td>
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<td>COM103</td>
<td>Human Communication</td>
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<td>ENL010 or ESL102 or satisfactory basic skills assessment score</td>
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<td><strong>Second Semester</strong></td>
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<td></td>
<td></td>
</tr>
<tr>
<td>ENL102</td>
<td>English Composition II</td>
<td>3</td>
<td>A grade of C or higher in ENL101</td>
</tr>
<tr>
<td>ANT107</td>
<td>Introduction to Anthropology</td>
<td>3</td>
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</tr>
<tr>
<td>HIS104 (or) HIS162</td>
<td>U.S. History since 1865 (or) European History II</td>
<td>3</td>
<td>None; ENL020 &amp; ENL050 recommended (or) ENL020 &amp; ENL050 or satisfactory basic skills assessment score</td>
</tr>
<tr>
<td>Humanities &amp; Fine Arts</td>
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<td>3</td>
<td></td>
</tr>
<tr>
<td>SOC215</td>
<td>Social Problems</td>
<td>3</td>
<td>SOC106</td>
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<tr>
<td>Natural or Physical Science</td>
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<td>4</td>
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</tr>
<tr>
<td>MAT150</td>
<td>Elementary Statistics</td>
<td>3</td>
<td>MAT040 or MAT110 &amp; ENL020 or satisfactory basic skills assessment scores</td>
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<tr>
<td>SOC210</td>
<td>Marriage and Family</td>
<td>3</td>
<td>SOC106</td>
</tr>
<tr>
<td>PSY101</td>
<td>General Psychology</td>
<td>3</td>
<td>ENL020 &amp; ENL050 or satisfactory basic skills assessment scores</td>
</tr>
<tr>
<td>Humanities &amp; Fine Arts</td>
<td></td>
<td>3</td>
<td></td>
</tr>
<tr>
<td><strong>Fourth Semester</strong></td>
<td></td>
<td></td>
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<tr>
<td>Natural or Physical Science</td>
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</tr>
<tr>
<td>SOC208</td>
<td>Race, Gender and Class in the U.S.</td>
<td>3</td>
<td>SOC106</td>
</tr>
<tr>
<td>Behavioral &amp; Social Sciences</td>
<td></td>
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<tr>
<td>Humanities &amp; Fine Arts</td>
<td></td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>PHI125 (or) PHI130</td>
<td>Contemporary Ethical Problems (or) Introduction to Philosophy</td>
<td>3</td>
<td>ENL101 (or) None</td>
</tr>
<tr>
<td><strong>Total Credits:</strong></td>
<td></td>
<td>62</td>
<td></td>
</tr>
</tbody>
</table>

The Associate in Arts degree does not indicate a specialized degree in a concentration.

### Overview

Sociology and Anthropology provide tools for understanding society, social and technological change, social problems, large organizations, small groups, everyday life and interactions, and the ways that social settings shape human behavior. Sociology and Anthropology help us understand our own lives in society as well as society in general. It is especially useful for students planning to work in government, law, social work, policing, politics, advertising, marketing, and similar fields.

### Career Outlook

The Sociology/Anthropology concentration prepares students to major in Sociology, Anthropology and related fields such as American Studies, Women’s Studies, Urban Studies, and Legal Studies at bachelor’s degree institutions. Students should check the catalogs of potential transfer colleges to assure that their course selections meet those college’s graduation requirements.
Associate in Arts
Theater / Dance Concentration

Students who complete this concentration will satisfy the requirements of MassTransfer. Students should consult with an advisor about the general education course requirements.

A candidate for the Theater / Dance Concentration might select a schedule similar to this.

<table>
<thead>
<tr>
<th>Course #</th>
<th>Course Title</th>
<th>Credits</th>
<th>Prerequisites</th>
</tr>
</thead>
<tbody>
<tr>
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<td><strong>First Semester</strong></td>
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<td></td>
</tr>
<tr>
<td>ENL101</td>
<td>English Composition I</td>
<td>3</td>
<td>Appropriate scores in Reading Comprehension &amp; in Sentence Skills on CPT or grade of C or better in ENL020 and ENL050 or ESL201</td>
</tr>
<tr>
<td>COM103</td>
<td>Human Communication</td>
<td>3</td>
<td>ENL010 or ESL102 or satisfactory basic skills assessment score</td>
</tr>
<tr>
<td>THR101</td>
<td>Introduction to Theater</td>
<td>3</td>
<td>ENL010 &amp; ENL040 or satisfactory basic skills assessment score</td>
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<td></td>
<td>Concentration elective</td>
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<tr>
<td><strong>Second Semester</strong></td>
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<td></td>
<td></td>
</tr>
<tr>
<td>ENL102</td>
<td>English Composition II</td>
<td>3</td>
<td>A grade of C or higher in ENL101</td>
</tr>
<tr>
<td>MTH101</td>
<td>Mathematics/Quantitative Reasoning</td>
<td>3/4</td>
<td></td>
</tr>
<tr>
<td>THR102</td>
<td>Page to Stage: Planning Play Productions</td>
<td>3</td>
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</tr>
<tr>
<td></td>
<td>Concentration elective</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td><strong>Third Semester</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Behavioral &amp; Social Sciences</td>
<td>3</td>
<td></td>
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<tr>
<td></td>
<td>Natural or Physical Science</td>
<td>4</td>
<td></td>
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<td></td>
<td>Humanities &amp; Fine Arts</td>
<td>3</td>
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</tr>
<tr>
<td></td>
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<tr>
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<td>Concentration elective</td>
<td>3</td>
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</tr>
<tr>
<td><strong>Fourth Semester</strong></td>
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</tr>
<tr>
<td></td>
<td>Natural or Physical Science</td>
<td>4</td>
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</tr>
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<td></td>
<td>Humanities &amp; Fine Arts</td>
<td>3</td>
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<tr>
<td></td>
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</tr>
<tr>
<td></td>
<td>Total Credits:</td>
<td>62/63</td>
<td></td>
</tr>
</tbody>
</table>

The Associate in Arts degree does not indicate a specialized degree in a concentration.

Overview
The Theater/Dance concentration is a recommended sequence of courses designed for the student who wishes to prepare for admission to a four-year college or university as a theater or dance major. It is recommended that students complete requirements for the associate degree and transfer to a four-year institution for a bachelor degree. Students with this concentration could also seek these other related majors: theater education, drama therapy, dance therapy, literature or communication.

Career Outlook
Students with a strong theater/dance background are able to pursue careers in all aspects of performance, technical theater, radio/TV production, drama therapy, dance therapy, teaching (elementary, secondary, and collegiate), and print and broadcast journalism. For students primarily interested in theater or dance performance, it is recommended that they develop a second area of complementary study. This will probably become useful coping with the very competitive and insecure job market of the performing arts.

Concentration electives
- COM201 Interpersonal Communication
- COM205 Oral Interpretation/Readers Theater
- DAN120 Modern Dance I
- DAN125 Stage Movement
- DAN126 African Dance and Drumming
- DAN127 Middle Eastern Dance and Culture
- DAN221 Modern Dance II
- THR103 Acting I
- THR113 Rehearsal and Performance
- THR114 Creative Dramatics
- THR117 Intro. to Theater Design
- THR119 Stagecraft
- THR203 Acting II
- THR205 Directing for Theater
Associate in Arts
U.S. History Concentration

Students who complete this concentration will satisfy the requirements of MassTransfer. Students should consult with an advisor about the general education course requirements.

A candidate for the U.S. History Concentration might select a schedule similar to this.

<table>
<thead>
<tr>
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<th>Course Title</th>
<th>Credits</th>
<th>Prerequisites</th>
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<td>ENL101</td>
<td>English Composition I</td>
<td>3</td>
<td>Appropriate scores in Reading Comprehension &amp; in Sentence Skills on CPT or grade of C or better in ENL020 and ENL050 or ESL201</td>
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<tr>
<td>HIS103</td>
<td>U.S. History to 1865</td>
<td>3</td>
<td>None; ENL020 &amp; ENL050 strongly recommended</td>
</tr>
<tr>
<td>GEO104</td>
<td>Geography: Culture and Environment</td>
<td>3</td>
<td>None; ENL020 &amp; ENL050 strongly recommended</td>
</tr>
<tr>
<td>MAT150</td>
<td>Elementary Statistics</td>
<td>3</td>
<td>MAT040 or MAT110 &amp; ENL020 or satisfactory basic skills assessment scores</td>
</tr>
<tr>
<td>Elective</td>
<td></td>
<td>3</td>
<td></td>
</tr>
<tr>
<td><strong>Second Semester</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ENL102</td>
<td>English Composition II</td>
<td>3</td>
<td>A grade of C or higher in ENL101</td>
</tr>
<tr>
<td>HIS104</td>
<td>U.S. History since 1865</td>
<td>3</td>
<td>None; ENL020 &amp; ENL050 strongly recommended</td>
</tr>
<tr>
<td>SOC106</td>
<td>Principles of Sociology</td>
<td>3</td>
<td>ENL020 &amp; ENL050 or satisfactory basic skills assessment scores</td>
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<tr>
<td>Elective</td>
<td></td>
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<tr>
<td><strong>Third Semester</strong></td>
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</tr>
<tr>
<td>ENL205</td>
<td>American Literature to 1890</td>
<td>3</td>
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</tr>
<tr>
<td>HIS217</td>
<td>The Civil War</td>
<td>3</td>
<td>ENL101</td>
</tr>
<tr>
<td>GOV111</td>
<td>American Government</td>
<td>3</td>
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<td>Natural or Physical Science</td>
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<tr>
<td>Elective</td>
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<tr>
<td><strong>Fourth Semester</strong></td>
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</tr>
<tr>
<td>ENL206</td>
<td>American Literature since 1890</td>
<td>3</td>
<td>ENL102</td>
</tr>
<tr>
<td>HIS215</td>
<td>Women in United States History</td>
<td>3</td>
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<td>Natural or Physical Science</td>
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<td>Elective</td>
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<tr>
<td>Elective</td>
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<td></td>
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</tr>
<tr>
<td><strong>Total Credits</strong></td>
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</tr>
</tbody>
</table>

The Associate in Arts degree does not indicate a specialized degree in a concentration.

**Overview**
This concentration is designed to give students a broad understanding of the history of the United States, its diverse people and its government. This interdisciplinary approach promotes active and informed citizenship as well as an appreciation for our past. A student who completes this concentration will be prepared for transfer to a bachelor’s program.

**Career Outlook**
The U.S. History concentration gives a student a strong foundation for further studies in the areas of education, law, historic preservation, museum studies, journalism, government and non-profit work, and positions involving research in the Social Sciences and Humanities. Students should note that entry-level job requirements in these areas always call for a minimum of a bachelor’s degree and often knowledge of a foreign language.

Suggested electives:
- ANT107 Introduction to Anthropology
- ANT211 Comparative Cultures
- COM103 Human Communication
- COM221 American Film
- ECO117 Principles of Macroeconomics
- ECO118 Principles of Microeconomics
- GEO101 American Geography
- GOV101 Comparative Politics
- GOV102 International Relations
- GOV110 The American Presidency
- HIS112 US Maritime History
- HIS119 World History I
- HIS120 World History II
- HIS160 European History I
- HIS162 European History II
- HIS253 Vietnam: America’s Longest War
- HIS258 African-American History
- MUS116 History of Rock Music
- SOC208 Race, Class & Gender in the United States
- PHI 130 Introduction to Philosophy
- REL122 Concepts of Western Religion
Associate in Arts
Visual Arts Concentration

Students who complete this concentration will satisfy the requirements of MassTransfer. Students should consult with an advisor about the general education course requirements.

A candidate for the Visual Arts Concentration might select a schedule similar to this.

<table>
<thead>
<tr>
<th>Course #</th>
<th>Course Title</th>
<th>Credits</th>
<th>Prerequisites</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>First Semester</strong></td>
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<td>ENL101</td>
<td>English Composition I</td>
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<td>Appropriate scores in Reading Comprehension &amp; in Sentence Skills on CPT or grade of C or better in ENL020 and ENL050 or ESL201</td>
</tr>
<tr>
<td>COM103</td>
<td>Human Communication</td>
<td>3</td>
<td>ENL010 or ESL102 or satisfactory basic skills assessment score</td>
</tr>
<tr>
<td>ART101</td>
<td>Design I</td>
<td>3</td>
<td>ENL010 &amp; ENL040 or satisfactory basic skills assessment score</td>
</tr>
<tr>
<td>ART100</td>
<td>Drawing I</td>
<td>3</td>
<td>ENL010 &amp; ENL040 or satisfactory basic skills assessment score</td>
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<tr>
<td></td>
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<td>3</td>
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</tr>
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<td><strong>Second Semester</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ENL102</td>
<td>English Composition II</td>
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<td>Drawing II</td>
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<td>ART100</td>
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<td>Design II</td>
<td>3</td>
<td>ART101</td>
</tr>
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<td>Behavioral &amp; Social Sciences</td>
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</tr>
<tr>
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<td>Mathematics /Quantitative Reasoning</td>
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<tr>
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<td>Humanities &amp; Fine Arts (Visual Arts)</td>
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</tr>
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<td></td>
<td></td>
</tr>
<tr>
<td>Behavioral &amp; Social Sciences</td>
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</tr>
<tr>
<td>Behavioral &amp; Social Sciences</td>
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<tr>
<td><strong>Fourth Semester</strong></td>
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</tr>
<tr>
<td>Humanities &amp; Fine Arts (Visual Arts)</td>
<td>3</td>
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<td>Natural or Physical Science</td>
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<td>Humanities &amp; Fine Arts</td>
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<tr>
<td>Total Credits:</td>
<td>62/63</td>
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</tr>
</tbody>
</table>

The Associate in Arts degree does not indicate a specialized degree in a concentration.

**Overview**
The Visual Arts concentration prepares students to transfer to degree-granting colleges or university art programs. The Visual Arts concentration provides the necessary fundamental courses. Whenever possible, the student should select a schedule with careful attention given to the requirements of the transfer college, since there are often considerable differences among bachelor programs.

**Career Outlook**
Careers in the Visual Arts are constantly changing but could include electronic imaging, graphic design, illustration, teaching, museum and gallery work, display, advertising and industrial design as well as the areas of painting, printmaking, sculpture and performance art.
### Associate in Arts

**World History Concentration**

Students who complete this concentration will satisfy the requirements of MassTransfer. Students should consult with an advisor about the general education course requirements. A candidate for the World History Concentration might select a schedule similar to this.

<table>
<thead>
<tr>
<th>Course #</th>
<th>Course Title</th>
<th>Credits</th>
<th>Prerequisites</th>
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<tbody>
<tr>
<td><strong>First Semester</strong></td>
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<tr>
<td>ENL101</td>
<td>English Composition I</td>
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<td>Appropriate scores in Reading Comprehension &amp; in Sentence Skills on CPT or grade of C or better in ENL020 and ENL050 or ESL201</td>
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<tr>
<td>HIS119</td>
<td>World History I</td>
<td>3</td>
<td>None; ENL020 &amp; ENL050 strongly recommended</td>
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<tr>
<td>MAT150</td>
<td>Elementary Statistics</td>
<td>3</td>
<td>MAT040 or MAT110 and ENL020 or satisfactory basic skills assessment scores</td>
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<td>Humanities &amp; Fine Arts (Modern Language)</td>
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<td>Elective</td>
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<tr>
<td><strong>Second Semester</strong></td>
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<td></td>
<td></td>
</tr>
<tr>
<td>HIS120</td>
<td>World History II</td>
<td>3</td>
<td>None; ENL020 &amp; ENL050 strongly recommended</td>
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<tr>
<td>ENL102</td>
<td>English Composition II</td>
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<td>A grade of C or higher in ENL101</td>
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<tr>
<td>GEO104</td>
<td>Geography: Culture and Environment</td>
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<td><strong>Third Semester</strong></td>
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<tr>
<td>ECO157</td>
<td>Global Economics</td>
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<td>ENL201</td>
<td>World Literature I</td>
<td>3</td>
<td>ENL102</td>
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</tr>
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<td>ENL202</td>
<td>World Literature II</td>
<td>3</td>
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<td></td>
</tr>
<tr>
<td></td>
<td>Elective</td>
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</tr>
<tr>
<td><strong>Total Credits</strong></td>
<td>61</td>
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</tbody>
</table>

**Overview**

A student who chooses the World History concentration will develop intercultural competencies and modern language skills. Courses address learning needs related to the global realities of the twenty-first century. A student who completes this concentration will be prepared for transfer to a bachelor’s program.

**Career Outlook**

The World History concentration gives a student a strong foundation for further studies in the areas of government, diplomacy, international law or business, political science, research and teaching within the humanities or social sciences. Students should note that entry-level job requirements in these areas almost always call for a minimum of a bachelor’s degree.

**Concentration Electives**

- ANT107 Introduction to Anthropology
- ANT108 World Archaeology
- ANT211 Comparative Culture
- ART125 History of Art: Stone Age to Gothic
- ART126 History of Art: Renaissance to Romanticism
- COM222 International Cinema
- ECO117 Principles of Macroeconomics
- ENL150 World Mythologies
- GOV101 Comparative Politics
- GOV102 International Relations
- HIS103 US History to 1865
- HIS104 US History since 1865
- HIS141 History of China
- HIS160 European History I
- HIS162 European History II
- HIS206 Ancient History
- HIS207 Medieval History
- HIS216 History of Japan
- HIS228 Women in European History
- MUS102 Music History I
- MUS103 Music History II
- REL122 Concepts in Western Religion
- REL123 Concepts in Eastern Religion
- SOC235 Sociology of Gender

The Associate in Arts degree does not indicate a specialized degree in a concentration.
The Associate in Science programs provide students with general education coursework and professional skills coursework to enter the workforce in their chosen profession. The Business Transfer and Early Childhood Education-Transfer Compact Programs and also designed for transfer.

**Associate in Science Degree Requirements**

For the Associate in Science degree the student must:

1. Have a minimum cumulative average of 2.0,
2. Satisfactorily complete a minimum of 60 credit hours, at least 24 of which must be earned from Cape Cod Community College, excluding developmental education courses,
3. Select 21-23 general education credits as follows:
   - ENL101 English Composition I 3cr
   - Humanities and Fine Arts* 3cr
   - Behavioral and Social Sciences 6cr
   - Mathematics/Quantitative Reasoning (or)
   - Natural or Physical Science 6-8cr
   - General Education 3cr
   - Total Credits 21-23

*Programs will, in most cases, include both ENL102 and COM103 resulting in a minimum of 24 General Education credits.

Each Associate in Science program has specific course requirements listed on the following pages. To graduate with an Associate in Science degree, a student must follow the curriculum as they appear in the following pages. To graduate, all of those courses must be taken although not necessarily in the order listed. Many of these courses have prerequisites, and some courses are not offered each semester.

Your academic advisor can assist in the scheduling of your classes. If you do not have an academic advisor, please contact the Director of Advising and Counseling Services.

Students who are interested in continuing their education at the baccalaureate level can refer to the list of articulations on page 16 and are encouraged to speak to their advisor, the CCCC transfer advisor, the receiving institution’s office of admissions, and/or relevant college catalogs or web sites.

Students must apply for graduation at the beginning of their final semester at CCCC. See your academic advisor to complete the form.

Any student taking online courses or courses with online components will be responsible to have access to both the Internet and a computer running Internet Explorer version 5.5 or higher.

Please visit www.capecod.edu/online for more information detailing online course requirements.
## Associate in Science
### Business Administration Program - Accounting Concentration

To graduate in the Business Administration Program - Accounting Concentration a student must complete the following required course of study.

<table>
<thead>
<tr>
<th>Course #</th>
<th>Course Title</th>
<th>Credits</th>
<th>Prerequisites</th>
<th>Semester Offered</th>
<th>Semester Taken</th>
<th>Grade Earned</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENL101</td>
<td>English Composition I</td>
<td>3</td>
<td>Appropriate scores in Reading Comprehension &amp; in Sentence Skills on CPT or grade of C or better in ENL020 &amp; ENL050 or ESL201</td>
<td>Fall, Spring, Summer</td>
<td></td>
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<tr>
<td>COM103</td>
<td>Human Communication</td>
<td>3</td>
<td>ENL010 or ESL102 or satisfactory basic skills assessment score</td>
<td>Fall, Spring, Summer</td>
<td></td>
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<tr>
<td></td>
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<tr>
<td>BUS100</td>
<td>Introduction to Business</td>
<td>3</td>
<td>None</td>
<td>Fall, Spring, Summer</td>
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<tr>
<td>BUS120</td>
<td>Business Law I</td>
<td>3</td>
<td>None</td>
<td>Fall, Spring, Summer</td>
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<tr>
<td>GIT110</td>
<td>Microcomputer Application Software</td>
<td>3</td>
<td>GIT102 or equivalent, ENL020 &amp; ENL050 or satisfactory basic skills assessment score</td>
<td>Fall, Spring, Summer</td>
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<tr>
<td>ACC111</td>
<td>Accounting I with Computer Applications*</td>
<td>3</td>
<td>MAT020 &amp; ENL020 or satisfactory basic skills assessment scores</td>
<td>Fall, Spring</td>
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<tr>
<td>ACC112</td>
<td>Accounting II with Computer Applications</td>
<td>3</td>
<td>MAT030 or satisfactory basic skills assessment score &amp; ACC111 or ACC101</td>
<td>Fall, Spring</td>
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<tr>
<td>ACC202</td>
<td>Managerial Accounting</td>
<td>3</td>
<td>ACC201 or (ACC111 &amp; ACC112)</td>
<td>Fall, Spring, Summer</td>
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<tr>
<td>ACC110</td>
<td>Personal &amp; Small Business Taxes</td>
<td>3</td>
<td>None</td>
<td>Spring</td>
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<tr>
<td>GIT125</td>
<td>Spreadsheet Applications for Business</td>
<td>3</td>
<td>(GIT110 or GIT120) &amp; (ACC111 or ACC201)</td>
<td>Fall, Spring</td>
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<tr>
<td>BUS261</td>
<td>Business Administration Cooperative Work Experience (or)</td>
<td>3</td>
<td>Approval by the Business internship coordinator</td>
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<tr>
<td>ACC263</td>
<td>VITA Practicum</td>
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<td>ACC101 or ACC111 or ACC201; Co-requisite: ACC110</td>
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<td>ECO117</td>
<td>Principles of Macroeconomics</td>
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<td>ECO118</td>
<td>Principles of Microeconomics</td>
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</table>

**Note:** Students intending to transfer to a bachelor program should discuss options with a professor in the Accounting concentration.

* Students may take ACC201 in lieu of ACC111 and ACC112. This requires an additional 3 credit Business elective.
Business Administration Program Overview

Students in the Associate in Science Business Administration program acquire a wide range of knowledge to prepare them for various positions in the business arena. Concentrations in Accounting, Hospitality Management, Management, and Marketing provide an in-depth education.

Career Outlook

Currently, there is an excellent opportunity for students desiring to enter the field of management to have the career of their choice. Students completing a concentration in the A. S. degree in Business Administration are prepared for many exciting entry-level management positions.

Accounting Overview

Students in the Accounting concentration acquire a solid background in the areas of cost accounting, general accounting practices, and tax accounting.

Career Outlook

Students completing the Accounting concentration are prepared for a variety of career options requiring a two-year degree in business, non-profit, and public accounting firms.

Program Outcomes

Upon completion of the Accounting concentration, students are able to:

- Use financial statements in decision making.
- Create and maintain computerized accounting records for a business entity.
- Work effectively at an entry-level accounting position.
- Analyze and record basic accounting transactions for proprietorships, partnerships and corporations.
- Understand the accounting cycle for service, merchandising and manufacturing businesses.
- Prepare, analyze and interpret financial statements.
- Evaluate tax situations and apply appropriate tax law for informed and responsible moral choices.
- Identify situations in accounting that demonstrate the importance of ethical behavior by the accountant to ensure accounting information is accurate, complete, relevant and reliable.
- Describe the basic elements of budgeting process, its objectives, and its impact on human behavior.
- Apply quantitative reasoning to evaluate capital investment and budgeting decisions.
## Associate in Science
### Business Administration Program - Hospitality Management Concentration

To graduate in the Business Administration Program – Hospitality Management Concentration a student must complete the following required course of study.

<table>
<thead>
<tr>
<th>Course #</th>
<th>Course Title</th>
<th>Credits</th>
<th>Prerequisites</th>
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<tr>
<td></td>
<td>Humanities &amp; Fine Arts</td>
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<tr>
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<tr>
<td>GIT110</td>
<td>Microcomputer Applications Software</td>
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<tr>
<td>CUL150</td>
<td>Fundamentals of Professional Cooking</td>
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<td>Co-requisite: HRM111</td>
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<tr>
<td>CUL210</td>
<td>Dining Room Operations and Service</td>
<td>4</td>
<td>CUL100 or HRM140; Co-requisite: CUL220</td>
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<td>CUL220</td>
<td>Advanced Culinary Arts</td>
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<td>HRM140 or HRM150/CUL150</td>
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<td>HRM111</td>
<td>Foodservice Sanitation</td>
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<td>HRM130</td>
<td>Food and Beverage Management</td>
<td>3</td>
<td>MAT020 or satisfactory basic skills assessment score</td>
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<tr>
<td>HRM140</td>
<td>Intro to Hospitality Management</td>
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<td>HRM215</td>
<td>Lodging Operations</td>
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<td>HRM140</td>
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<td>HRM230</td>
<td>Hospitality Marketing</td>
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<td>HRM140 &amp; ENL101</td>
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</tbody>
</table>

* Any student intending to transfer should take a college-level math reflecting the requirement of the transfer college.
** Students planning on transfer should take either ACC111 and ACC112 or ACC201.

### Hospitality/Culinary Electives
- CUL180 Baking I
- HRM250 Special Events & Operations Management
- HRM262 Hospitality Cooperative Work Experience
Associate in Science
Business Administration Program - Hospitality Management Concentration

Overview
Students in the Hospitality Management concentration acquire a wide range of management theory and practical training to prepare them for a career in the hospitality industry: restaurant production and management, hospitality accounting, marketing, law, and lodging.

Career Outlook
Currently, there is a strong demand for well-trained competent workers in the hospitality field. Students completing this concentration are prepared for a career in the hospitality field in a supervisory or middle-management position.

Program Outcomes
Upon completion of the Hospitality Management concentration, students are able to:
- Demonstrate skills in planning, organizing, leading and controlling that are necessary to coordinate and manage the component parts of the hospitality industry and to effectively communicate with employees, guests, suppliers and other related groups.
- Perform technical skills necessary for operating a successful hospitality business.
- Perform administrative skills in basic bookkeeping procedures, business cost controls, and planning and coordinating hotel restaurant operations.
- Recognize and apply interpersonal skills needed in hospitality management, including team building, group decision making and providing quality guest services.
## Associate in Science
### Business Administration Program - Management Concentration

To graduate in the Business Administration Program – Management Concentration a student must complete the following required course of study.

<table>
<thead>
<tr>
<th>Course #</th>
<th>Course Title</th>
<th>Credits</th>
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<td><strong>General Education</strong></td>
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<td>ENL101</td>
<td>English Composition I</td>
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<tr>
<td>COM103</td>
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<tr>
<td>BUS100</td>
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<td>Fall, Spring, Summer</td>
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<td>BUS120</td>
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<td>Fall, Spring, Summer</td>
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<tr>
<td>GIT110</td>
<td>Microcomputer Applications Software</td>
<td>3</td>
<td>GIT102 or equivalent, ENL020 &amp; ENL050 or satisfactory basic skills assessment score</td>
<td>Fall, Spring, Summer</td>
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<tr>
<td>ACC201</td>
<td>Financial Accounting**</td>
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<td>(BUS100 or HRM140), GIT110, MAT030, &amp; ENL020 or satisfactory basic skills assessment scores</td>
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<tr>
<td>ACC202</td>
<td>Managerial Accounting</td>
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<td>ACC201 or (ACC111 &amp; ACC112)</td>
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<tr>
<td>BUS103</td>
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<td>ENT108</td>
<td>Intro. to Entrepreneurship</td>
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<td>Human Resource Management</td>
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<td>BUS261</td>
<td>Business Administration Cooperative Work Experience</td>
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</table>

*Choose from the following:
MAT150  Elementary Statistics
MAT171  Precalculus Mathematics I

**Students may take ACC111 and ACC112 in lieu of ACC201.

***Any course with a GIT, BIT, HIT, or CSC course designation.
Overview
Students learn managerial, financial, supervisory and communication theory and practices. Teamwork and project management are also emphasized within this concentration.

Career Outlook
Students completing the Management concentration are prepared for a variety of positions including, but not limited to: first line supervisor, managerial assistant, small business owner, agency director, or management trainee.

Program Outcomes
Upon completion of the Management concentration, students are able to:

- Apply management theories in a dynamic and multicultural world.
- Make decisions through the use of technology.
- Demonstrate competency in the analysis and synthesis of the components of management using written and oral communication.
- Assume entry-level management positions.
- Engage in critical thinking by reading, writing and analyzing issues related to management.
- Recognize and analyze ethical issues as they relate to business.
- Apply quantitative problem solving techniques to evaluate management decisions.
- Work well with teams in a business setting.
## Associate in Science
### Business Administration Program - Marketing Concentration

To graduate in the Business Administration Program – Marketing Concentration a student must complete the following required course of study.

<table>
<thead>
<tr>
<th>Course #</th>
<th>Course Title</th>
<th>Credits</th>
<th>Prerequisites</th>
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<td>Microcomputer Applications Software</td>
<td>3</td>
<td>GIT102 or equivalent, ENL020 &amp; ENL050 or satisfactory basic skills assessment score</td>
<td>Fall, Spring, Summer</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ACC201</td>
<td>Financial Accounting*</td>
<td>3</td>
<td>(BUS100 or HRM140), GIT110, MAT030 &amp; ENL020 or satisfactory basic skills assessment scores</td>
<td>Fall, Spring, Summer</td>
<td></td>
<td></td>
</tr>
<tr>
<td>BUS103</td>
<td>Supervision</td>
<td>3</td>
<td>None</td>
<td>Fall, Spring, Summer</td>
<td></td>
<td></td>
</tr>
<tr>
<td>BUS214</td>
<td>Management</td>
<td>3</td>
<td>ENL101 &amp; BUS100</td>
<td>Fall, Spring, Summer</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MKT100</td>
<td>Marketing</td>
<td>3</td>
<td>ENL020 or satisfactory basic skills assessment scores</td>
<td>Fall, Spring, Summer</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MKT103</td>
<td>Advertising</td>
<td>3</td>
<td>ENL020 or satisfactory basic skills assessment scores</td>
<td>Fall, Spring, Summer</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MKT106</td>
<td>Consumer Behavior</td>
<td>3</td>
<td>MKT100 (formerly MKT205)</td>
<td>Fall, Spring</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MKT112</td>
<td>Customer Service Concepts &amp; Applications</td>
<td>3</td>
<td>None</td>
<td>Fall, Spring, Summer</td>
<td></td>
<td></td>
</tr>
<tr>
<td>BUS261</td>
<td>Business Administration Cooperative Work Experience</td>
<td>3</td>
<td>Approval by the Business internship coordinator</td>
<td>Fall, Spring, Summer</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Business elective</td>
<td>3</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Information Technology elective **</td>
<td>3</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Total Credits: 60/62

*Students may take ACC111 and ACC112 in lieu of ACC201.
**Any course with a GIT, BIT, HIT, or CSC designation.
Associate in Science
Business Administration Program – Marketing Concentration

Overview
Students gain the understanding of customer service and consumer behavior and their interaction with business.

Career Outlook
The profit and non-profit sectors have a high demand for managers who have a strong understanding of the customers. A variety of positions are available to the student who completes this course of study in merchandising, marketing and customer service.

Program Outcomes
Upon completion of the Marketing concentration, students are able to:
- Read, write, discuss and think critically about topics and ideas in marketing.
- Utilize planning strategies within the marketing mix.
- Identify and evaluate the uses of target marketing.
- Synthesize theories from consumer behavior, customer service and communications to develop marketing plans and solve marketing issues.
- Assume entry-level positions in sales and marketing.
- Recognize and analyze ethical issues as they relate to marketing.
- Work well with teams in a marketing setting.
# Associate in Science
## Business Transfer Program

To graduate in the Business Transfer Program, a student must complete the following required course of study. This program is a MassTransfer eligible program*

<table>
<thead>
<tr>
<th>Course #</th>
<th>Course Title</th>
<th>Credits</th>
<th>Prerequisites</th>
<th>Semester Offered</th>
<th>Semester Taken</th>
<th>Grade Earned</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENL101</td>
<td>English Composition I</td>
<td>3</td>
<td>Appropriate scores in Reading Comprehension &amp; in Sentence Skills on CPT or grade of C or better in ENL020 &amp; ENL050 or ESL201</td>
<td>Fall, Spring, Summer</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ENL102</td>
<td>English Composition II</td>
<td>3</td>
<td>A grade of C or higher in ENL101</td>
<td>Fall, Spring, Summer</td>
<td></td>
<td></td>
</tr>
<tr>
<td>COM103</td>
<td>Human Communication</td>
<td>3</td>
<td>ENL010 or ESL102 or satisfactory basic skills assessment score</td>
<td>Fall, Spring, Summer</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Humanities &amp; Fine Arts</td>
<td>3</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Humanities &amp; Fine Arts</td>
<td>3</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ECO117</td>
<td>Principles of Macroeconomics</td>
<td>3</td>
<td>None</td>
<td>Fall, Spring, Summer</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ECO118</td>
<td>Principles of Microeconomics</td>
<td>3</td>
<td>None</td>
<td>Fall, Spring, Summer</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Behavioral &amp; Social Sciences</td>
<td>3</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Natural or Physical Science</td>
<td>4</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Natural or Physical Science</td>
<td>4</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Mathematics/Quantitative Reasoning **</td>
<td>3/4</td>
<td></td>
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</tbody>
</table>

### General Education

### Professional Education

<table>
<thead>
<tr>
<th>Course #</th>
<th>Course Title</th>
<th>Credits</th>
<th>Prerequisites</th>
<th>Semester Offered</th>
<th>Semester Taken</th>
<th>Grade Earned</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUS100</td>
<td>Introduction to Business</td>
<td>3</td>
<td>None</td>
<td>Fall, Spring, Summer</td>
<td></td>
<td></td>
</tr>
<tr>
<td>BUS120</td>
<td>Business Law</td>
<td>3</td>
<td>None</td>
<td>Fall, Spring, Summer</td>
<td></td>
<td></td>
</tr>
<tr>
<td>GIT110</td>
<td>Microcomputer Application Software</td>
<td>3</td>
<td>GIT102 or equivalent, ENL020 &amp; ENL050 or satisfactory basic skills assessment score</td>
<td>Fall, Spring, Summer</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ACC201</td>
<td>Financial Accounting</td>
<td>3</td>
<td>(BUS100 or HRM140), GIT110, MAT030 &amp; ENL020 or satisfactory basic skills assessment scores</td>
<td>Fall, Spring, Summer</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ACC202</td>
<td>Managerial Accounting</td>
<td>3</td>
<td>ACC201 or (ACC111 &amp; ACC112)</td>
<td>Fall, Spring, Summer</td>
<td></td>
<td></td>
</tr>
<tr>
<td>BUS201</td>
<td>Business Finance</td>
<td>3</td>
<td>ACC202 or ACC105</td>
<td>Fall, Spring, Summer</td>
<td></td>
<td></td>
</tr>
<tr>
<td>BUS214</td>
<td>Management</td>
<td>3</td>
<td>ENL101 &amp; BUS100</td>
<td>Fall, Spring, Summer</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MKT100</td>
<td>Marketing</td>
<td>3</td>
<td>ENL020 or satisfactory basic skills assessment score</td>
<td>Fall, Spring, Summer</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Information Technology elective***</td>
<td>3</td>
<td></td>
<td></td>
<td></td>
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</tr>
</tbody>
</table>

Total Credits: 62/63

*Go to [www.mass.edu/masstransfer](http://www.mass.edu/masstransfer) for complete information about MassTransfer.

**Each transfer college or university has their own Mathematics requirement for a Business/Management bachelor’s degree. Students are encouraged to research the business curriculum at the colleges/universities they would like to apply to, to see what is the appropriate mathematics course to take at CCCC. The Mathematics course to take at CCCC to prepare for transfer to some of our state universities is below.

- University of Massachusetts-Dartmouth requires MAT165 Finite Mathematics.
- Bridgewater State University, Westfield State University, University of Massachusetts-Boston, University of Massachusetts-Lowell, University of Massachusetts-Amherst require MAT117 Precalculus I.
- University of Massachusetts-Amherst also requires MAT180 Applied Calculus for acceptance to the Isenberg School of Management.

***Choose from the following courses:

- BIT111 Introduction to Information Technology
- BIT113 Microcomputer Hardware
- BIT115 Operating Systems
- BIT175 Visual Basic Programming
- BIT187 Networking Essentials
- GIT180 Introduction to the Internet
- GIT183 Web Site Design & Scripting
Associate in Science
Business Transfer Program

Overview
The student in this concentration acquires a strong business and a solid general education foundation. It is designed to enhance a students’ articulation to a four year institution.

Career Outlook
The student completing this option is encouraged to transfer to a four-year institution to earn a bachelor’s degree in Accounting, Information Systems, Management, Marketing and Public Administration.

Some four-year institutions of Business require Business Calculus I (Applied Calculus) and Business Calculus II, Finite Mathematics, and Statistics. Course requirements at transfer institutions vary greatly and need to be carefully considered with an advisor.

Program Outcomes
Upon completion of the A. S. Business Transfer Program, students are able to:

- Transfer to a four year institution with a concentration in business.
- Apply management theories in a dynamic and multicultural world.
- Make decisions through the use of technology.
- Recognize and analyze ethical issues as they relate to business.
- Apply quantitative problem solving techniques to evaluate management decisions.
## Associate in Science
### Criminal Justice Program

To graduate in the Criminal Justice Program, a student must complete the following required course of study.

<table>
<thead>
<tr>
<th>Course #</th>
<th>Course Title</th>
<th>Credits</th>
<th>Prerequisites</th>
<th>Semester Offered</th>
<th>Semester Taken</th>
<th>Grade Earned</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENL101</td>
<td>English Composition I</td>
<td>3</td>
<td>Appropriate scores in Reading Comprehension &amp; in Sentence Skills on CPT or grade of C or better in ENL020 &amp; ENL050 or ESL201</td>
<td>Fall, Spring, Summer</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ENL102 (or) COM103</td>
<td>English Composition II (or) Human Communication</td>
<td>3</td>
<td>A grade of C or higher in ENL101 (or) ENL010 or ESL102 or satisfactory basic skills assessment score</td>
<td>Fall, Spring, Summer</td>
<td></td>
<td></td>
</tr>
<tr>
<td>HIS104</td>
<td>U.S. History since 1865</td>
<td>3</td>
<td>None; ENL020 &amp; ENL050 strongly recommended</td>
<td>Fall, Spring, Summer</td>
<td></td>
<td></td>
</tr>
<tr>
<td>PSY101</td>
<td>General Psychology</td>
<td>3</td>
<td>ENL020 &amp; ENL050 or satisfactory basic skills assessment score</td>
<td>Fall, Spring, Summer</td>
<td></td>
<td></td>
</tr>
<tr>
<td>SOC106</td>
<td>Principles of Sociology</td>
<td>3</td>
<td>ENL020 &amp; ENL050 or satisfactory basic skills assessment score</td>
<td>Fall, Spring, Summer</td>
<td></td>
<td></td>
</tr>
<tr>
<td>BIO105</td>
<td>Survey of Human Anatomy &amp; Physiology</td>
<td>4</td>
<td>MAT020, ENL020 &amp; ENL050 or satisfactory basic skills assessment scores</td>
<td>Fall, Spring, Summer</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Mathematics/Quantitative Reasoning (or) Natural or Physical Science</td>
<td>3 (or) 4</td>
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</tbody>
</table>

### Professional Education

<table>
<thead>
<tr>
<th>Course #</th>
<th>Course Title</th>
<th>Credits</th>
<th>Prerequisites</th>
<th>Semester Offered</th>
<th>Semester Taken</th>
<th>Grade Earned</th>
</tr>
</thead>
<tbody>
<tr>
<td>CRJ101</td>
<td>Substantive Criminal Law</td>
<td>3</td>
<td>None</td>
<td>Fall</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CRJ102</td>
<td>Procedural Criminal Law</td>
<td>3</td>
<td>None</td>
<td>Spring</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CRJ105</td>
<td>Criminology, Theory &amp; Practice</td>
<td>3</td>
<td>None</td>
<td>Fall, Spring</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CRJ116</td>
<td>Introduction to Corrections</td>
<td>3</td>
<td>None</td>
<td>Spring</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CRJ125</td>
<td>Contemporary Policing</td>
<td>3</td>
<td>None</td>
<td>Fall, Spring</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CRJ206</td>
<td>Principles of Investigation I</td>
<td>3</td>
<td>All Level I CRJ courses</td>
<td>Fall</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CRJ207</td>
<td>Principles of Investigation II</td>
<td>3</td>
<td>CRJ206 &amp; all Level I CRJ courses</td>
<td>Spring</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CRJ210</td>
<td>Ethical Issues in Criminal Justice</td>
<td>3</td>
<td>All Level I CRJ courses</td>
<td>Fall, Spring</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CRJ240</td>
<td>Selected Issues in Criminal Justice</td>
<td>3</td>
<td>All Level I CRJ courses</td>
<td>Spring</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CRJ261</td>
<td>Criminal Justice Cooperative Work Experience*</td>
<td>3</td>
<td>All Level I CRJ courses</td>
<td>Fall, Spring, Summer</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Criminal Justice elective</td>
<td>3</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Criminal Justice elective</td>
<td>3</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td></td>
<td>Elective</td>
<td>3</td>
<td></td>
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</tr>
<tr>
<td></td>
<td>Total Credits:</td>
<td>61/62</td>
<td></td>
<td></td>
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</tr>
</tbody>
</table>

*CRJ261 Criminal Justice Cooperative Work Experience can be completed in the fall, spring, or summer semesters. Please refer to the policy statement of Criminal Offender Record information and Sex Offender Registry Information checks.

### Criminal Justice electives

- CRJ130 Criminal Evidence
- CRJ135 Terrorism
- CRJ220 Crisis Intervention for Criminal Justice Professionals
- CRJ221 Juvenile Justice
Overview
Any student whose career plans include probation, corrections, or law enforcement requires not only a broad understanding of the criminal justice system, but also a fundamental knowledge of the social and behavioral sciences.

Career Outlook
The Criminal Justice program prepares students who intend to enter the fields of Law Enforcement, Corrections, or the Court System.

Program Outcomes
Upon completion of the Criminal Justice program, students are able to:
- Read, write, discuss, and think critically about topics and ideas in criminal justice.
- Analyze ethical issues in criminal justice.
- Apply ethical principles to the performance of roles and responsibilities in criminal justice careers.
- Synthesize information from the diversity literature in sociology, psychology, history, and criminal justice to determine sensitive and effective interactions with people encountered in criminal justice settings.
- Assume positions in a variety of criminal justice careers.
- Transfer to professional baccalaureate programs.
## Associate in Science
### Dental Hygiene Program

To graduate in the Dental Hygiene Program, a student must complete the following required course of study.

**Note:** The following course must be completed before entering the Dental Hygiene Program: CHM101 General Chemistry I* (or) CHM109 Chemistry for the Health Sciences*

<table>
<thead>
<tr>
<th>Course #</th>
<th>Course Title</th>
<th>Credits</th>
<th>Prerequisites</th>
<th>Semester Offered</th>
<th>Semester Taken</th>
<th>Grade Earned</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENL101</td>
<td>English Composition I</td>
<td>3</td>
<td>Appropriate scores in Reading Comprehension &amp; in Sentence Skills on CPT or grade of C or better in ENL020 &amp; ENL050 or ESL201</td>
<td>Fall, Spring, Summer</td>
<td></td>
<td></td>
</tr>
<tr>
<td>COM103</td>
<td>Human Communication</td>
<td>3</td>
<td>ENL010 or ESL102 or satisfactory basic skills assessment score</td>
<td>Fall, Spring, Summer</td>
<td></td>
<td></td>
</tr>
<tr>
<td>PSY101</td>
<td>General Psychology</td>
<td>3</td>
<td>ENL020 &amp; ENL050 or satisfactory basic skills assessment score</td>
<td>Fall, Spring, Summer</td>
<td></td>
<td></td>
</tr>
<tr>
<td>SOC106</td>
<td>Principles of Sociology</td>
<td>3</td>
<td>ENL020 &amp; ENL050 or satisfactory basic skills assessment score</td>
<td>Fall, Spring, Summer</td>
<td></td>
<td></td>
</tr>
<tr>
<td>BIO107</td>
<td>Human Anatomy and Physiology I*</td>
<td>4</td>
<td>A grade of C or higher in CHM109 or BIO101 or CHM101</td>
<td>Fall, Spring, Summer</td>
<td></td>
<td></td>
</tr>
<tr>
<td>BIO108</td>
<td>Human Anatomy and Physiology II</td>
<td>4</td>
<td>A grade of C or higher in BIO107</td>
<td>Fall, Spring, Summer</td>
<td></td>
<td></td>
</tr>
<tr>
<td>BIO201</td>
<td>Microbiology</td>
<td>4</td>
<td>A grade of C or higher in CHM101 or CHM109 &amp; BIO101 or BIO107</td>
<td>Fall, Spring, Summer</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>General Education elective</td>
<td>3</td>
<td></td>
<td></td>
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<td></td>
<td></td>
<td></td>
<td>Total Credits: 75</td>
<td></td>
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<td></td>
</tr>
</tbody>
</table>

* BIO107, CHM101 & CHM109 meet the General Education requirements (effective Fall 2010).
Associate in Science
Dental Hygiene Program

The Dental Hygiene Program provides selected individuals from various experiential and educational backgrounds the opportunity for education in dental hygiene. Graduates are awarded the Associate in Science degree and are eligible for the Northeast Regional Board/ADHLEX examination and the National Board Dental Hygiene examination. The Dental Hygiene program is accredited by the Commission on Dental Accreditation of the American Dental Association.

Dental Hygiene applicants are accepted only for the FALL SEMESTER.

SPECIAL REQUIREMENTS FOR STUDENTS ENROLLED IN THE DENTAL HYGIENE PROGRAM

Applicants must submit the following credentials:

- Completed Cape Cod Community College Application for Admission by February 1.
- Official high school transcript or GED diploma.
- Official transcript(s) for all colleges and universities ever attended, (if applicable).
- Letter and/or resume indicating reasons for selecting the Dental Hygiene program, related experiences, motivation and other pertinent data.
- Dental Hygiene Information Sessions: Attendance at an information session is strongly recommended for all applicants to the Dental Hygiene program. The Director of Admissions and the Dental Hygiene Program Coordinator will share up-to-date information about the program and answer questions about the curriculum, clinical assignments, support services and the admissions process. Information sessions are held each fall and winter. Appointments may be scheduled by contacting the Admissions Office.
- Criteria for admission includes:
  - Satisfactory performance in the most recent educational experiences.
  - Successful completion of algebra (MAT030 Elementary Algebra or the equivalent) within the last five years or satisfactory elementary algebra score on assessments.
  - Successful completion of chemistry with a lab within the last five years or satisfactory elementary algebra score on assessments.
- Dental Hygiene Information Sessions: Attendance at an information session is strongly recommended for all applicants to the Dental Hygiene program. The Director of Admissions and the Dental Hygiene Program Coordinator will share up-to-date information about the program and answer questions about the curriculum, clinical assignments, support services and the admissions process. Information sessions are held each fall and winter. Appointments may be scheduled by contacting the Admissions Office.

The preferred applicant will present:

- An overall Grade Point Average (GPA) of 3.0 or better (on a 4.0 scale).
- An overall GPA of 3.0 or better in mathematics and science courses. Priority will be given to the candidate who has taken additional courses to fulfill the core requirements.
- Admission decisions are based upon a review of all candidates.

Wait List: Once the incoming class has been selected, a wait list will be formulated with the following criteria:

- An overall GPA of 2.8
- An overall GPA of 2.8 in mathematics or science courses.
- The Wait List is maintained in chronological order until the first week of Fall semester.
- Completion of courses required by English and elementary algebra skills assessments prior to registration for dental hygiene courses.

Additional Program Information/Requirements:

- Students who are required to study developmental education courses should anticipate a three-year program of study.
- The Dental Hygiene program is a sequential course of study. Upon acceptance into the Dental Hygiene program, the student must maintain a grade of 75 or better and a satisfactory clinical evaluation in each Dental Hygiene course in order to proceed to the next Dental Hygiene course. Students who fail a course may apply for re-entry in accordance with the Dental Hygiene Program Re-Entry Policy.
- Due to the rigorous nature of the Dental Hygiene program, completion of additional science and general education courses outlined in the Dental Hygiene program are recommended prior to acceptance.
- Each Dental Hygiene student must: undergo a complete physical examination and meet the physical and mental abilities required to achieve the clinical objectives; complete all required tests and immunizations as indicated on the Cape Cod Community College Report of Physical Examination form; have completed all Hepatitis B immunizations prior to the September of the year the student is entering the Dental Hygiene program. In addition, each Dental Hygiene student is required to maintain current CPR certification at the Health Care Provider (AHA) level or Professional Rescuer (Red Cross) level, and carry malpractice and health insurance.
- Please refer to the policy statement of Criminal Offender Record Information and Sex Offender Registry Information checks.
- As in any health care environment, students in the Dental Hygiene program may have risks of exposure to infectious diseases. The Dental Hygiene program adheres to all state and federal regulations to reduce the risk of health care associated infections. Individuals who disclose the presence of bloodborne infectious diseases will be shown the same consideration as non-infected individuals and will be offered reasonable accommodation. Information regarding health status of an individual is considered confidential and protected by the Family Education Rights and Privacy Act of 1974.

The preferred applicant will present:

- An overall Grade Point Average (GPA) of 3.0 or better (on a 4.0 scale).
- An overall GPA of 3.0 or better in mathematics and science courses. Priority will be given to the candidate who has taken additional courses to fulfill the core requirements.
- Admission decisions are based upon a review of all candidates.

Wait List: Once the incoming class has been selected, a wait list will be formulated with the following criteria:

- An overall GPA of 2.8
- An overall GPA of 2.8 in mathematics or science courses.
- The Wait List is maintained in chronological order until the first week of Fall semester.
- Completion of courses required by English and elementary algebra skills assessments prior to registration for dental hygiene courses.

Additional Program Information/Requirements:

- Students who are required to study developmental education courses should anticipate a three-year program of study.
- The Dental Hygiene program is a sequential course of study. Upon acceptance into the Dental Hygiene program, the student must maintain a grade of 75 or better and a satisfactory clinical evaluation in each Dental Hygiene course in order to proceed to the next Dental Hygiene course. Students who fail a course may apply for re-entry in accordance with the Dental Hygiene Program Re-Entry Policy.
- Due to the rigorous nature of the Dental Hygiene program, completion of additional science and general education courses outlined in the Dental Hygiene program are recommended prior to acceptance.
- Each Dental Hygiene student must: undergo a complete physical examination and meet the physical and mental abilities required to achieve the clinical objectives; complete all required tests and immunizations as indicated on the Cape Cod Community College Report of Physical Examination form; have completed all Hepatitis B immunizations prior to the September of the year the student is entering the Dental Hygiene program. In addition, each Dental Hygiene student is required to maintain current CPR certification at the Health Care Provider (AHA) level or Professional Rescuer (Red Cross) level, and carry malpractice and health insurance.
- Please refer to the policy statement of Criminal Offender Record Information and Sex Offender Registry Information checks.
- As in any health care environment, students in the Dental Hygiene program may have risks of exposure to infectious diseases. The Dental Hygiene program adheres to all state and federal regulations to reduce the risk of health care associated infections. Individuals who disclose the presence of bloodborne infectious diseases will be shown the same consideration as non-infected individuals and will be offered reasonable accommodation. Information regarding health status of an individual is considered confidential and protected by the Family Education Rights and Privacy Act of 1974.
Associate in Science
Dental Hygiene Program

Overview
This full-time degree program prepares the student to become a dental hygienist who is a preventive oral health professional prepared to provide educational, clinical and therapeutic services to the public. This degree also prepares the student for more advanced educational opportunities in the health care field.

Career Outlook
Employment opportunities are available as an entry-level Dental Hygienist in private general and specialty dental practices, community dental health centers, and public health agencies/facilities.

Program Outcomes
The Dental Hygiene program at Cape Cod Community College provides students with the theory, knowledge, and experience necessary to obtain competency in the practice of dental hygiene in a variety of settings. Upon completion of the program, the dental hygiene graduates are able to meet the following learning outcomes:

- Integrate knowledge from the basic, psychosocial, dental, and dental hygiene sciences into the dental hygiene process of care.
- Communicate effectively with individuals and groups from diverse populations.
- Utilize critical thinking, problem solving, and evidence-based decision making in the practice of dental hygiene.
- Apply a professional code of ethics while adhering to appropriate legal and regulatory measures when providing oral health services.
- Utilizing risk assessment and health promotion strategies, integrate the goals, values and beliefs of diverse populations in the promotion of health, wellness, and the prevention of disease.
- Safely perform the dental hygiene process of care (assessment, diagnosis, planning, implementation, evaluation, documentation) for all patients and community-based oral health programs.
- Continually perform self-assessment to maintain professional standards and encourage life-long learning.
- Value the need for personal and professional growth through participation in professional activities and associations.
- Demonstrate an awareness of the variety of career options within the dental hygiene profession.
To graduate in the Early Childhood Education - Career Option program, a student must complete the following required course of study.

<table>
<thead>
<tr>
<th>Course #</th>
<th>Course Title</th>
<th>Credits</th>
<th>Prerequisites</th>
<th>Semester Offered</th>
<th>Semester Taken</th>
<th>Grade Earned</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENL101</td>
<td>English Composition I</td>
<td>3</td>
<td>Appropriate scores in Reading Comprehension &amp; in Sentence Skills on CPT or grade of C or better in ENL020 &amp; ENL050 or ESL201</td>
<td>Fall, Spring, Summer</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ENL102</td>
<td>English Composition II</td>
<td>3</td>
<td>A grade of C or higher in ENL101</td>
<td>Fall, Spring, Summer</td>
<td></td>
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</tr>
<tr>
<td>COM103</td>
<td>Human Communication</td>
<td>3</td>
<td>ENL010 or ESL102 or satisfactory basic skills assessment score</td>
<td>Fall, Spring, Summer</td>
<td></td>
<td></td>
</tr>
<tr>
<td>SOC106</td>
<td>Principles of Sociology</td>
<td>3</td>
<td>ENL020 &amp; ENL050 or satisfactory basic skills assessment score</td>
<td>Fall, Spring, Summer</td>
<td></td>
<td></td>
</tr>
<tr>
<td>PSY101</td>
<td>General Psychology</td>
<td>3</td>
<td>ENL020 &amp; ENL050 or satisfactory basic skills assessment score</td>
<td>Fall, Spring, Summer</td>
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</tr>
<tr>
<td>ECE100</td>
<td>Intro. to Early Childhood Education</td>
<td>3</td>
<td>ENL020 &amp; ENL050 or satisfactory basic skills assessment score</td>
<td>Fall, Spring</td>
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<tr>
<td>ECE105</td>
<td>Intro. to Children with Special Needs</td>
<td>3</td>
<td>ECE100 or PSY201</td>
<td>Fall, Spring</td>
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<tr>
<td>ECE201</td>
<td>Preschool Curriculum Planning</td>
<td>3</td>
<td>ECE100 or PSY201</td>
<td>Fall, Spring</td>
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<tr>
<td>ECE206</td>
<td>Field Experience in Early Childhood Education</td>
<td>1</td>
<td>ECE100 and ECE200 or ECE201</td>
<td>Fall, Spring</td>
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<tr>
<td>ECE202</td>
<td>Advanced Curriculum Development: Creative Experiences for Early Childhood Education</td>
<td>3</td>
<td>ECE201</td>
<td>Fall, Spring</td>
<td></td>
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</tr>
<tr>
<td>ECE221</td>
<td>Classroom Management: Skills &amp; Strategies for EC Teachers</td>
<td>3</td>
<td>ECE110 or PSY201</td>
<td>Fall, Spring</td>
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<tr>
<td>ECE230</td>
<td>Practicum in Early Childhood Education</td>
<td>6</td>
<td>ECE105, ECE201, PSY201, (EC200 or ECE202) &amp; a minimum 2.0 GPA in ECE courses</td>
<td>Fall, Spring</td>
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<tr>
<td>ECE291</td>
<td>Leadership &amp; Management in ECE</td>
<td>2</td>
<td>ECE110 or PSY201</td>
<td>Spring</td>
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<tr>
<td>PSY201</td>
<td>Child Psychology</td>
<td>3</td>
<td>PSY101</td>
<td>Fall, Spring, Summer</td>
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<tr>
<td>SOC210</td>
<td>Marriage and Family (or)</td>
<td>3</td>
<td>SOC106</td>
<td>Fall</td>
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<tr>
<td>SOC215</td>
<td>Social Problems (or)</td>
<td>3</td>
<td>SOC106</td>
<td>Fall, Spring, Summer</td>
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<tr>
<td>SOC208</td>
<td>Race, Gender, and Class in the US</td>
<td>3</td>
<td>SOC106</td>
<td>Fall</td>
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</tbody>
</table>

* Please refer to the policy statement of Criminal Offender Record Information and Sex Offender Registry Information checks.

Early Childhood Education Electives
- ECE115  Literacy and the Young Child
- ECE200  Teaching Infants and Toddlers
- ECE211  Curriculum Strategies for Teaching Math and Science to Young Children
- ECE242  Selected Topics in Early Childhood Education

Total Credits: 60
The National Association for the Education of Young Children (NAEYC) has awarded the Early Childhood Education Program at Cape Cod Community College full seven-year accreditation, the first such award in the state of Massachusetts and among the very first Associate Degree programs in the entire country to receive such recognition. The NAEYC Early Childhood Associate Degree Accreditation system sets a national standard of excellence for early childhood programs that prepare teachers at the associate degree level.

**Overview**

This program is designed for students who are interested in working with young children. Graduates of the program may work in a variety of child care settings in both private and public schools.

**Career Outlook**

Upon completion of this program, the student is qualified to work in a licensed child care facility. Graduates also work in summer camps and as assistants in public schools. The program meets the requirements of the Massachusetts Office of Child Care Services.

**Program Outcomes**

Upon completion of the Early Childhood Education program, students are able to:
- Promote child development and learning.
- Build family and community relationships.
- Observe, document, and assess in support of young children and families.
- Build meaningful curriculum.
- Become a professional.
Associate in Science
Early Childhood Education Program - Transfer Compact

Students who complete this concentration will satisfy the requirements of MassTransfer. For students planning to teach in Massachusetts public schools, please refer to the Education Licensure Requirements.

To graduate in the Early Childhood Education Program - Transfer Compact a student must complete the following required course of study. Students interested in this program are encouraged to meet with the CCCC Transfer Advisor.

<table>
<thead>
<tr>
<th>Course #</th>
<th>Course Title</th>
<th>Credits</th>
<th>Prerequisites</th>
<th>Semester Offered</th>
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<tr>
<td>ENL101</td>
<td>English Composition I</td>
<td>3</td>
<td>Appropriate scores in Reading Comprehension &amp; in Sentence Skills on CPT or grade of C or better in ENL020 &amp; ENL050 or ESL201</td>
<td>Fall, Spring, Summer</td>
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<tr>
<td>ENL102</td>
<td>English Composition II</td>
<td>3</td>
<td>A grade of C or higher in ENL101</td>
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<tr>
<td>COM103</td>
<td>Human Communication</td>
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<td>Principles of Sociology</td>
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<td>PSY101</td>
<td>General Psychology</td>
<td>3</td>
<td>ENL020 &amp; ENL050 or satisfactory basic skills assessment score</td>
<td>Fall, Spring, Summer</td>
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<tr>
<td>GOV111</td>
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<td>3</td>
<td>None</td>
<td>Fall, Spring, Summer</td>
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<td></td>
<td>Mathematics/Quantitative Reasoning</td>
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<td>Natural or Physical Science (Biological)*</td>
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<td>Natural or Physical Science (Physical)*</td>
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<td>Humanities and Fine Arts**</td>
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<td>Humanities and Fine Arts**</td>
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<th>Course #</th>
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<tr>
<td>ECE100</td>
<td>Intro. to Early Childhood Education</td>
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<tr>
<td>ENL120</td>
<td>Introduction to Children's Literature</td>
<td>3</td>
<td>ENL101</td>
<td>Fall, Spring, Summer</td>
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<tr>
<td>PSY201</td>
<td>Child Psychology</td>
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<tr>
<td></td>
<td>Total Credits:</td>
<td>63</td>
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</tbody>
</table>

* Natural or Physical Science: A Biological Science is any 4-credit course from the Natural or Physical Science list (with a lab) with the prefix BIO, ENV, or HOR; all other 4-credit Natural or Physical Science courses (with a lab) are considered Physical Sciences.

** ART125, MUS100, or THR101 are recommended.

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**Overview**
Students must graduate with a minimum 2.75 GPA and attain a passing score on the Communication and Literacy Skills (CLST) portion of the Massachusetts Tests for Educator Licensure (MTEL) before their planned entrance to the bachelor institution to be accepted directly into an education program. If students do not meet the criteria above, they may be admitted to the required academic (second) major on initial acceptance to the bachelor’s institution.

**Career Outlook**
Students completing a bachelor’s degree in Early Childhood Education will be required to take two additional MTEL tests: Early Childhood and Foundations of Reading. After passing these tests, they will receive initial licensure to teach and be ready to enter the teaching profession. Students must obtain a master’s degree within five years to receive professional licensure. Students will be eligible to teach in public and private schools, grades Pre-K through Grade 2.
# Environmental Technology Program

To graduate in the Environmental Technology Program, a student must complete the following required course of study.

<table>
<thead>
<tr>
<th>Course #</th>
<th>Course Title</th>
<th>Credits</th>
<th>Prerequisites</th>
<th>Semester Offered</th>
<th>Semester Taken</th>
<th>Grade Earned</th>
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<tbody>
<tr>
<td>ENL101</td>
<td>English Composition I</td>
<td>3</td>
<td>Appropriate scores in Reading Comprehension &amp; in Sentence Skills on CPT or grade of C or better in ENL020 &amp; ENL050 or ESL201</td>
<td>Fall, Spring, Summer</td>
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<tr>
<td>ENL102</td>
<td>English Composition II</td>
<td>3</td>
<td>A grade of C or higher in ENL101</td>
<td>Fall, Spring, Summer</td>
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<tr>
<td></td>
<td>Behavioral and Social Sciences</td>
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<tr>
<td>CMH106</td>
<td>Survey of Chemistry</td>
<td>4</td>
<td>MAT020, ENL020 &amp; ENL050 or satisfactory basic skills assessment scores</td>
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<tr>
<td>ESC101</td>
<td>Intro to Earth Science</td>
<td>4</td>
<td>MAT030, ENL020 &amp; ENL050 or satisfactory basic skills assessment scores</td>
<td>Fall, Spring</td>
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<tr>
<td>COM103</td>
<td>Human Communication</td>
<td>3</td>
<td>ENL010 or ESL102 or satisfactory basic skills assessment score</td>
<td>Fall, Spring, Summer</td>
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<td>Behavioral and Social Sciences</td>
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<td>Behavioral and Social Sciences</td>
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<td>Behavioral and Social Sciences</td>
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<tr>
<td>ENV101</td>
<td>Survey of Environmental Technology</td>
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<tr>
<td>ENV105</td>
<td>Quantitative Methods for Environmental Analysis</td>
<td>3</td>
<td>MAT030 (or) or MAT040 or MAT110 &amp; ENL020 or satisfactory basic skills assessment scores</td>
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<tr>
<td>MAT150</td>
<td>Elementary Statistics</td>
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<tr>
<td>ENV115</td>
<td>Environmental Chemistry</td>
<td>3</td>
<td>CHM106</td>
<td>Fall</td>
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<tr>
<td>ENV118</td>
<td>Intro. to Environmental Science</td>
<td>4</td>
<td>MAT020, ENL020 &amp; ENL050 or satisfactory basic skills assessment scores</td>
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<tr>
<td>ENV125</td>
<td>Covalent Ecology</td>
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<td>None</td>
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<tr>
<td>ENV158</td>
<td>Occupational Health and Safety (OSHA) through</td>
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<td></td>
<td>Hazardous Waste Management</td>
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<tr>
<td>ENV160</td>
<td>Introductory Concepts in GIS</td>
<td>3</td>
<td>None</td>
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<tr>
<td>ENV201</td>
<td>Environmental Instrumentation</td>
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<td>ENV105 &amp; ENV115</td>
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<tr>
<td>ENV260</td>
<td>Internship**</td>
<td>3</td>
<td>ENV118 or ENV170 &amp; permission of the instructor</td>
<td>Fall, Spring, Summer</td>
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<td>Environmental Technology Electives:</td>
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</tbody>
</table>

* Environmental Technology Electives: Refer to page 2 for the list of ET electives.

** To be taken during the summer or during the third or fourth semester.

| Total Credits: | 67 |
Associate in Science
Environmental Technology Program

Overview
This program emphasizes the cognitive and technical skills needed to enter and advance in environmental technology careers in both the private and public sectors. This is a career field that utilizes the principles of science, engineering, communication and economics to protect and enhance safety, health and natural resources. Students who are interested in pursuing a four-year undergraduate program in Environmental Studies should refer to the Associate in Arts Environmental Studies concentration.

Career Outlook
Graduates will be trained at the technical level for fields such as hazardous waste clean-up, site assessment, water quality, air quality, wastewater management, environmental compliance, solid waste management, coastal zone management, use of computerized mapping and pollution prevention.

Program Outcomes
Upon completion of the Environmental Technology program, students are able to:
- Communicate and discuss current environmental topics and be able to provide an overview of environmental technology
- Apply scientific, technical, and communication skills and knowledge to specific tasks
- Be proficient at using state-of-the-art scientific instrumentation to perform air, water, and soil analysis
- Be certified in 40-hour OSHA for hazardous waste
- Conduct monitoring in the field and demonstrate the ability to analyze the data in a laboratory setting
- Be proficient in a discipline of environmental technology, including coastal zone management, hazardous waste site assessment, geographic information systems, wastewater management, water quality, energy efficiency and/or renewable energy.

* Environmental Technology Electives:
CON130 Computer Aided Drafting I
CON135 Computer Aided Drafting II
ENV122 Process of Environmental Management & Decision Making
ENV135 Coastal Zone Management
ENV140 Intro to Water
ENV142 Industrial Wastewater Treatment
ENV145 Wastewater Treatment Plant Operation
ENV146 Water Supply
ENV152 Air Pollution Issues
ENV163 GIS I
ENV164 GIS II
ENV170 Renewable Energy Sources
ENV171 Energy Efficiency and Conservation Methods
ENV172 Commercial Energy Audits
ENV173 Intro to Solar Energy
ENV177 Intro to Wind Energy
ENV178 Photovoltaic Installation
ENV179 Solar Thermal Installation
ENV180 Small Wind Installation
ENV181 Intro to Green Building
GIT110 Microcomputer Applications Software
HOR101 Plant and Soil Science
HOR102 Entomology and Plant Diseases
HOR103 Woody Plant Identification and Culture
HOR104 Turf Management
HOR201 Herbaceous Plant Identification and Culture
# Associate in Science
## Fire Science Program - Emergency Medical Services Option

Students who wish to major in Fire Science must select either the Fire Science Option or Emergency Medical Services Option. Professional education courses are offered evenings only. To graduate in the Fire Science program – Emergency Medical Services option, a student must complete the following required course of study.

<table>
<thead>
<tr>
<th>Course #</th>
<th>Course Title</th>
<th>Credits</th>
<th>Prerequisites</th>
<th>Semester Offered</th>
<th>Semester Taken</th>
<th>Grade Earned</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>General Education</strong></td>
<td></td>
<td></td>
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<td></td>
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</tr>
<tr>
<td>ENL101</td>
<td>English Composition I</td>
<td>3</td>
<td>Appropriate scores in Reading Comprehension &amp; in Sentence Skills on CPT or grade of C or better in ENL020 &amp; ENL050 or ESL201</td>
<td>Fall, Spring, Summer</td>
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<tr>
<td>ENL102 (or) COM103</td>
<td>English Composition II (or) Human Communication</td>
<td>3</td>
<td>A grade of C or better in ENL101 (or) ENL010 or ESL102 or satisfactory basic skills assessment score</td>
<td>Fall, Spring, Summer</td>
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<tr>
<td>PSY101 (or) SOC106</td>
<td>General Psychology (or) Principles of Sociology</td>
<td>3</td>
<td>ENL020 &amp; ENL050 or satisfactory basic skills assessment score (or) ENL020 &amp; ENL050 or satisfactory basic skills assessment score</td>
<td>Fall, Spring, Summer</td>
<td></td>
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<tr>
<td><strong>Behavioral &amp; Social Sciences</strong></td>
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<tr>
<td></td>
<td>Mathematics/Quantitative Reasoning (or) Natural or Physical Science</td>
<td>3 (or) 4</td>
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<tr>
<td>BIO105</td>
<td>Survey of Anatomy and Physiology</td>
<td>4</td>
<td>MAT020, ENL020 &amp; ENL050 or satisfactory basic skills assessment scores</td>
<td>Fall, Spring, Summer</td>
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</tr>
<tr>
<td>CHM106 (or) CHM109</td>
<td>Survey of Chemistry (or) Chemistry for the Health Sciences I</td>
<td>4</td>
<td>MAT020, ENL020 &amp; ENL050 or satisfactory basic skills assessment scores (or) MAT030, ENL020 &amp; ENL050 or satisfactory basic skills assessment scores</td>
<td>Fall, Spring, Summer</td>
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<tr>
<td><strong>Professional Education</strong></td>
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<tr>
<td>EMS101</td>
<td>Emergency Medical Technician: EMT</td>
<td>5</td>
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<td>Fall, Spring</td>
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<tr>
<td>EMS201</td>
<td>Advanced Pre-Hospital Training Program: Paramedic I</td>
<td>7</td>
<td>ENL020 &amp; MAT020 or satisfactory basic skills assessment scores</td>
<td>Fall</td>
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<tr>
<td>EMS202/EMS602</td>
<td>Advanced Pre-Hospital Training Program: Paramedic II/Paramedic Clinical Field Experience</td>
<td>8</td>
<td>EMS201</td>
<td>Spring</td>
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<tr>
<td>FSC100</td>
<td>Introduction to Fire Protection</td>
<td>3</td>
<td>ENL020 &amp; ENL050 or satisfactory basic skills assessment score</td>
<td>Fall, Spring</td>
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<tr>
<td>FSC103</td>
<td>Fire Fighting Tactics and Strategy</td>
<td>3</td>
<td>FSC100</td>
<td>Varies</td>
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<tr>
<td>FSC105</td>
<td>Hazardous Materials</td>
<td>3</td>
<td>CHM106 or CHM101 or CHM109</td>
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<tr>
<td>FSC114</td>
<td>Fire Company Management</td>
<td>3</td>
<td>FSC100</td>
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<tr>
<td>Elective*</td>
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<td>Fire Science Elective</td>
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<td><strong>Total Credits:</strong></td>
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</tr>
</tbody>
</table>

* GIT110 Microcomputer Software Applications is recommended.

** Please refer to the policy statement of Criminal Offender Record Information and Sex Offender Registry Information checks.

### Fire Science Electives
- FSC102: Fire Protection Systems and Equipment
- FSC107: Hydraulics for the Fire Service
- FSC109: Fire Department Management and Planning
- FSC120: Introduction to Incident Management
- FSC104: Building Const/Fire Service
- FSC108: Fire Investigation and Evidence
- FSC110: Fire Codes & Ordinances
Overview
This program is designed to expand the educational development of the Emergency Medical Services. Material covered in this program will expand the skill and education of persons working in the field or in administrative areas of Emergency Medical Services.

Career Outlook
This program is designed to provide professional training for students interested in careers in the Emergency Medical Services field with opportunities in municipal, state, and federal agencies, industry, insurance companies, hospitals and various medical offices.

Program Outcomes
Upon completion of the Fire Science Program - Emergency Medical Services Option, students are able to:

- Apply principles and current practices of fire protection techniques.
- Use effective communication skills to build relationships with co-workers, supervisors, and members of the community.
- Perform the role of a fire protection officer using established standards, guidelines, and regulations.
- Observe, analyze, assess, and implement an effective operation plan in fire protection and emergency medical service situations.
- Apply principles and practices of specialized technical operations teams.
- Integrate leadership principles to perform roles of increasing responsibility within fire protection and emergency medical service organizations.
Associate in Science
Fire Science Program – Fire Science Option

Students who wish to major in Fire Science must select either the Fire Science Option or Emergency Medical Services Option. Professional education courses are offered evenings only.

To graduate in the Fire Science Program– Fire Science Option, a student must complete the following required course of study.

<table>
<thead>
<tr>
<th>Course #</th>
<th>Course Title</th>
<th>Credits</th>
<th>Prerequisites</th>
<th>Semester Offered</th>
<th>Semester Taken</th>
<th>Grade Earned</th>
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<tr>
<td>ENL101</td>
<td>English Composition I</td>
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<td>Appropriate scores in Reading Comprehension &amp; in Sentence Skills on CPT or grade of C or better in ENL020 &amp; ENL050 or ESL201</td>
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<tr>
<td>ENL102 (or)</td>
<td>English Composition II</td>
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<td>A grade of C or higher in ENL101 (or) ENL010 or ESL102 or satisfactory basic skills assessment score</td>
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<td>COM103 (or)</td>
<td>Human Communication</td>
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<td>ENL020 or satisfactory basic skills assessment score</td>
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<td>PSY101 (or)</td>
<td>General Psychology</td>
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<td>ENL020 &amp; ENL050 or satisfactory basic skills assessment score (or) ENL020 &amp; ENL050 or satisfactory basic skills assessment score</td>
<td>Fall, Spring, Summer</td>
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<td>SOC100</td>
<td>Principles of Sociology</td>
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<tr>
<td>CHM106 (or)</td>
<td>Survey of Chemistry</td>
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<td>Introduction to Fire Protection</td>
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<td>ENL020 &amp; ENL050 or satisfactory basic skills assessment score</td>
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<tr>
<td>FSC100</td>
<td>Fundamentals of Fire Prevention</td>
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<td>Varies</td>
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<td>FSC101</td>
<td>Fire Protection Systems and Equipment</td>
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<td>None</td>
<td>Varies</td>
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<tr>
<td>FSC102</td>
<td>Fire Fighting Tactics and Strategy</td>
<td>3</td>
<td>FSC100</td>
<td>Varies</td>
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<tr>
<td>FSC104</td>
<td>Building Construction for the Fire Service</td>
<td>3</td>
<td>FSC100</td>
<td>Varies</td>
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<tr>
<td>FSC105</td>
<td>Hazardous Materials</td>
<td>3</td>
<td>CHM106 or CHM101 or CHM109</td>
<td>Varies</td>
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<tr>
<td>FSC107</td>
<td>Hydraulics for Fire Science</td>
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<td>FSC100 &amp; MAT030 or satisfactory basic skills assessment score</td>
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<tr>
<td>FSC108</td>
<td>Fire Investigation and Evidence</td>
<td>3</td>
<td>FSC100</td>
<td>Varies</td>
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<tr>
<td>FSC109</td>
<td>Fire Department Management and Planning</td>
<td>3</td>
<td>FSC114</td>
<td>Varies</td>
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<tr>
<td>FSC110</td>
<td>Fire Codes and Ordinances</td>
<td>3</td>
<td>None</td>
<td>Varies</td>
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<tr>
<td>FSC114</td>
<td>Fire Company Management</td>
<td>3</td>
<td>FSC100</td>
<td>Varies</td>
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<tr>
<td>Elective*</td>
<td></td>
<td>3</td>
<td></td>
<td>Varies</td>
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<tr>
<td>Fire Science elective</td>
<td></td>
<td>3</td>
<td></td>
<td>Varies</td>
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<tr>
<td>Total Credits:</td>
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<td>61/62</td>
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</table>

Fire Science Electives
EMS101 Emergency Medical Technician: EMT
EMS201 Advanced Pre-Hospital Training Program: Paramedic I
EMS202 Advanced Pre-Hospital Training Program: Paramedic II
FSC120 Introduction to Incident Management
(or) courses that have been approved in advance by both the Fire Science Coordinator and the Division Dean.

*GIT110 Microcomputer Software Applications is recommended.
Overview
This program offers the technical and educational requirements to assist in the development of knowledge required to succeed in the fire protection field. This program is centered on municipal fire protection. Aspects of fire protection in the private sector are also presented.

Career Outlook
Students who plan a career in firefighting or fire safety technology should select this program which is based on the premise that in-service personnel need to study technical improvement and that new recruits must be better qualified to enter fire and safety careers. The coursework in the Fire Science program may be helpful in succeeding in the entrance and promotional exams for the fire service. A sound foundation is provided for continuing into a four-year fire degree program.

Program Outcomes
Upon completion of the Fire Science program, students are able to:
- Apply principles and current practices of fire protection techniques.
- Use effective communication skills to build relationships with co-workers, supervisors, and members of the community.
- Perform the role of a fire protection officer using established standards, guidelines, and regulations.
- Observe, analyze, assess, and implement an effective operation plan in fire protection and emergency medical service situations.
- Apply principles and practices of specialized technical operations teams.
- Integrate leadership principles to perform roles of increasing responsibility within fire protection and emergency medical service organizations.
## Associate in Science
### Information Technology Program

To graduate in the Information Technology Program, a student must complete the following required course of study.

<table>
<thead>
<tr>
<th>Course #</th>
<th>Course Title</th>
<th>Credits</th>
<th>Prerequisites</th>
<th>Semester Offered</th>
<th>Semester Taken</th>
<th>Grade Earned</th>
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<tbody>
<tr>
<td>ENL101</td>
<td>English Composition I</td>
<td>3</td>
<td>Appropriate scores in Reading Comprehension &amp; in Sentence Skills on CPT or grade of C or better in ENL020 &amp; ENL050 or ESL201</td>
<td>Fall, Spring, Summer</td>
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<tr>
<td>COM103</td>
<td>Human Communication</td>
<td>3</td>
<td>ENL010 or ESL012 or satisfactory basic skills assessment score</td>
<td>Fall, Spring, Summer</td>
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<tr>
<td></td>
<td>Behavioral and Social Sciences</td>
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<td></td>
<td>Behavioral and Social Sciences</td>
<td>3</td>
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<tr>
<td></td>
<td>Mathematics/Quantitative Reasoning</td>
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<td>Mathematics/Quantitative Reasoning</td>
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<td>(or) Natural or Physical Science</td>
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<tr>
<td>BUS100</td>
<td>Introduction to Business</td>
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<td>Fall, Spring, Summer</td>
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<tr>
<td>ACC111 (or ACC201)</td>
<td>Accounting I with Computer Applications (or Financial Accounting)</td>
<td>3</td>
<td>MAT020 &amp; ENL020 or satisfactory basic skills assessment scores (or) (BUS100 or HRM140), GIT110, MAT030 &amp; ENL020 or satisfactory basic skills assessment scores</td>
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<tr>
<td>BUS120</td>
<td>Business Law</td>
<td>3</td>
<td>None</td>
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<tr>
<td>GIT110</td>
<td>Microcomputer Application Software*</td>
<td>3</td>
<td>GIT102 or equivalent, ENL020 &amp; ENL050 or satisfactory basic skills assessment score</td>
<td>Fall, Spring, Summer</td>
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<tr>
<td>BIT113</td>
<td>Microcomputer Hardware</td>
<td>3</td>
<td>ENL020, ENL050 &amp; MAT020 or satisfactory basic skills assessment score</td>
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<tr>
<td></td>
<td>Information Technology elective***</td>
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<td>BIT115</td>
<td>Operating Systems</td>
<td>3</td>
<td>GIT110</td>
<td>Fall, Spring</td>
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<tr>
<td>GIT150</td>
<td>Database Applications</td>
<td>3</td>
<td>GIT120, GIT108 or equivalent skill level in Windows</td>
<td>Fall, Spring</td>
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<tr>
<td>BIT187</td>
<td>Networking Essentials</td>
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<td>Co-requisite: BIT115</td>
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<tr>
<td>GIT183</td>
<td>Web Site Design and Scripting</td>
<td>3</td>
<td>GIT110</td>
<td>Fall, Spring</td>
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<tr>
<td>BIT261</td>
<td>IT Cooperative Work Experience (or Advanced IT Elective****)</td>
<td>3</td>
<td>Completion of at least 2 semesters of business &amp; IT courses and/or comparable practical work experience. Permission of IT Coordinator</td>
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<td></td>
<td>First-level Programming Course**</td>
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<td></td>
<td>Advanced IT elective****</td>
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</table>

Total Credits: 60/61

* If challenged or waived, an Information Technology elective may be substituted.
** BIT175 Visual Basic Programming, CSC110 Computer Programming I: Java, or CSC120 Computer Programming I: C++
*** Any course with a GIT, BIT, HIT, or CSC designation.
**** 200-level Information Technology course
Overview
Students in the A. S. Information Technology program acquire a wide range of technical skills that prepare them for various positions in the information technology field. Since many technology clusters are available in the IT field, the IT program provides a foundation in software development, database administration, networking, and web development.

Career Outlook
Currently, there is a strong demand for well-trained, competent workers in information technology. Students completing the general degree program are prepared for entry-level positions in the IT field. Students who desire to advance in the field are encouraged to select advanced IT courses in a concentration.

Program Outcomes
Upon completion of the Information Technology program, students are able to:
- Read, write, discuss and think critically about topics and ideas in information and/or office technology.
- Analyze ethical issues and apply ethical standards in the performance of responsibilities in a variety of information and office technology careers.
- Synthesize information from communications, information technology, office technology, and business to provide customer service and solve business problems.
- Assume positions in a variety of information and office technology careers.
- Work well with teams in a information or office technology setting.
- Transfer to baccalaureate programs.
## Associate in Science
### Information Technology Program
#### Administrative Assistant Concentration - General Track

To graduate in the Information Technology Program – Administrative Assistant Concentration – General Track, a student must complete the following required course of study.

<table>
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<th>Course #</th>
<th>Course Title</th>
<th>Credits</th>
<th>Prerequisites</th>
<th>Semester Offered</th>
<th>Semester Taken</th>
<th>Grade Earned</th>
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<tr>
<td>ENL101</td>
<td>English Composition I</td>
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<td>Appropriate scores in Reading Comprehension &amp; in Sentence Skills on CPT or grade of C or better in ENL020 &amp; ENL050 or ESL201</td>
<td>Fall, Spring, Summer</td>
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<tr>
<td>COM103</td>
<td>Human Communication</td>
<td>3</td>
<td>ENL010 or ESL102 or satisfactory basic skills assessment score</td>
<td>Fall, Spring, Summer</td>
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<td></td>
<td>Behavioral and Social Sciences</td>
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<td></td>
<td>Mathematics/Quantitative Reasoning (or)</td>
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<td>General Education elective</td>
<td>3</td>
<td></td>
<td></td>
<td></td>
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</tr>
<tr>
<td></td>
<td>Professional Education</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>GIT101</td>
<td>Typing *</td>
<td>3</td>
<td>None</td>
<td>Fall, Spring</td>
<td></td>
<td></td>
</tr>
<tr>
<td>GIT110</td>
<td>Microcomputer Applications Software</td>
<td>3</td>
<td>GIT102 or equivalent, ENL020 &amp; ENL050 or satisfactory basic skills assessment score</td>
<td>Fall, Spring, Summer</td>
<td></td>
<td></td>
</tr>
<tr>
<td>BUS100</td>
<td>Introduction to Business</td>
<td>3</td>
<td>None</td>
<td>Fall, Spring</td>
<td></td>
<td></td>
</tr>
<tr>
<td>GIT105</td>
<td>Office Communication Systems</td>
<td>3</td>
<td>ENL020 &amp; ENL050 or satisfactory basic skills assessment score</td>
<td>Fall, Spring</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ACC111</td>
<td>Accounting I with Computer Applications (or)</td>
<td>3</td>
<td>MAT020 &amp; ENL020 or satisfactory basic skills assessment score (or)</td>
<td>Fall, Spring</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ACC201</td>
<td>Financial Accounting</td>
<td>3</td>
<td>BUS100 or HRM140, GIT110, MAT030 &amp; ENL020 or basic skills assessment scores</td>
<td>Fall, Spring, Summer</td>
<td></td>
<td></td>
</tr>
<tr>
<td>BUS120</td>
<td>Business Law I</td>
<td>3</td>
<td>None</td>
<td>Fall, Spring</td>
<td></td>
<td></td>
</tr>
<tr>
<td>GIT220</td>
<td>Advanced Word Processing Applications</td>
<td>3</td>
<td>GIT120 or GIT110</td>
<td>Fall, Spring</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ART210</td>
<td>Graphic Production &amp; Layout I</td>
<td>3</td>
<td>GIT110; ART130 recommended</td>
<td>Fall, Spring</td>
<td></td>
<td></td>
</tr>
<tr>
<td>BIT202</td>
<td>Standard Office Procedures</td>
<td>3</td>
<td>GIT110 or GIT120</td>
<td>Spring</td>
<td></td>
<td></td>
</tr>
<tr>
<td>GIT125</td>
<td>Spreadsheet Applications for Business</td>
<td>3</td>
<td>GIT110 or GIT120 &amp; ACC111 or ACC201</td>
<td>Fall, Spring</td>
<td></td>
<td></td>
</tr>
<tr>
<td>GIT150</td>
<td>Database Applications</td>
<td>3</td>
<td>GIT120, GIT108 or GIT110 or equivalent skill level in Windows</td>
<td>Fall, Spring</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Business Elective</td>
<td>3</td>
<td></td>
<td></td>
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<tr>
<td></td>
<td>Business Elective**</td>
<td>3</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

| Total Credits: | 60/62 |

* If waived, must be replaced with a Business course.
** Cooperative Work Experience is recommended.
Information Technology Program - Administrative Assistant Concentration Overview
Students in the Administrative Assistant concentration acquire a wide range of computer, communication, and organizational skills that prepare them for support positions in a modern office setting. Students enrolled in this concentration choose from the General or Medical tracks.

Career Outlook
Currently, there is a strong demand for well-trained, competent workers in the computerized office. Students completing the Administrative Assistant concentration are prepared to be secretaries, administrative and executive assistants in a variety of computerized office settings.

Administrative Assistant Concentration - General Track Overview
Students in this option learn to keyboard, write and format business documents; use a variety of information processing tools; administer and organize an automated office; and apply correct office procedures in various situations.

Career Outlook
Students completing the General Administrative Assistant track are trained to provide administrative or executive support in small to large office settings including but not limited to banks, insurance, technology, and real estate.

Program Outcomes
Upon completion of the Information Technology Program – Administrative Assistant Concentration – General Track, students are able to:
- Read, write, discuss and think critically about topics and ideas in information and/or office technology.
- Analyze ethical issues and apply ethical standards in the performance of responsibilities in a variety of information and office technology careers.
- Synthesize information from communications, information technology, office technology, and business to provide customer service and solve business problems.
- Assume positions in a variety of information and office technology careers.
- Work well with teams in a information or office technology setting.
- Transfer to baccalaureate programs.
### Associate in Science
### Information Technology Program
### Administrative Assistant Concentration - Medical Track

To graduate in the Information Technology Program – Administrative Assistant Concentration - Medical Track, a student must complete the following required course of study.

<table>
<thead>
<tr>
<th>Course #</th>
<th>Course Title</th>
<th>Credits</th>
<th>Prerequisites</th>
<th>Semester Offered</th>
<th>Semester Taken</th>
<th>Grade Earned</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENL101</td>
<td>English Composition I</td>
<td>3</td>
<td>Appropriate scores in Reading Comprehension &amp; in Sentence Skills on CPT or grade of C or better in ENL020 &amp; ENL050 or ESL201</td>
<td>Fall, Spring, Summer</td>
<td>Fall, Spring, Summer</td>
<td></td>
</tr>
<tr>
<td>COM103</td>
<td>Human Communication</td>
<td>3</td>
<td>ENL010 or ESL102 or satisfactory basic skills assessment score</td>
<td>Fall, Spring, Summer</td>
<td>Fall, Spring, Summer</td>
<td></td>
</tr>
<tr>
<td>PSY101</td>
<td>General Psychology</td>
<td>3</td>
<td>ENL020 &amp; ENL050 or satisfactory basic skills assessment score</td>
<td>Fall, Spring, Summer</td>
<td>Fall, Spring, Summer</td>
<td></td>
</tr>
<tr>
<td>BIO105</td>
<td>Survey of Human Anatomy &amp; Physiology</td>
<td>4</td>
<td>MAT020, ENL020, and ENL050 or satisfactory basic skills assessment score</td>
<td>Fall, Spring, Summer</td>
<td>Fall, Spring, Summer</td>
<td></td>
</tr>
<tr>
<td>BIT103</td>
<td>Medical Terminology</td>
<td>3</td>
<td>ENL020 &amp; ENL050 or satisfactory basic skills assessment score</td>
<td>Fall, Spring, Summer</td>
<td>Fall, Spring, Summer</td>
<td></td>
</tr>
</tbody>
</table>

### Professional Education

<table>
<thead>
<tr>
<th>Course #</th>
<th>Course Title</th>
<th>Credits</th>
<th>Prerequisites</th>
<th>Semester Offered</th>
<th>Semester Taken</th>
<th>Grade Earned</th>
</tr>
</thead>
<tbody>
<tr>
<td>GIT101</td>
<td>Typing I*</td>
<td>3</td>
<td>None</td>
<td>Fall, Spring</td>
<td>Fall, Spring</td>
<td></td>
</tr>
<tr>
<td>GIT110</td>
<td>Microcomputer Applications Software</td>
<td>3</td>
<td>GIT102 or equivalent, ENL020 &amp; ENL050 or satisfactory basic skills assessment score</td>
<td>Fall, Spring, Summer</td>
<td>Fall, Spring, Summer</td>
<td></td>
</tr>
<tr>
<td>ACC111</td>
<td>Accounting I with Computer Applications (or) ACC201</td>
<td>3</td>
<td>MAT020 &amp; ENL020 or satisfactory basic skills assessment score (or) (BUS100 or HRM140), GIT110, MAT030 &amp; ENL020 or satisfactory basic skills assessment score</td>
<td>Fall, Spring, Summer</td>
<td>Fall, Spring, Summer</td>
<td></td>
</tr>
<tr>
<td>GIT105</td>
<td>Office Communication Systems</td>
<td>3</td>
<td>ENL020 &amp; ENL050 or satisfactory basic skills assessment score</td>
<td>Fall, Spring, Summer</td>
<td>Fall, Spring, Summer</td>
<td></td>
</tr>
<tr>
<td>BUS100</td>
<td>Introduction to Business</td>
<td>3</td>
<td>None</td>
<td>Fall, Spring, Summer</td>
<td>Fall, Spring, Summer</td>
<td></td>
</tr>
<tr>
<td>GIT150</td>
<td>Database Applications</td>
<td>3</td>
<td>GIT120, GIT108 or GIT110 or equivalent skill level in Windows</td>
<td>Fall, Spring, Summer</td>
<td>Fall, Spring, Summer</td>
<td></td>
</tr>
<tr>
<td>BUS120</td>
<td>Business Law I</td>
<td>3</td>
<td>None</td>
<td>Fall, Spring, Summer</td>
<td>Fall, Spring, Summer</td>
<td></td>
</tr>
<tr>
<td>GIT220</td>
<td>Advanced Word Processing Applications</td>
<td>3</td>
<td>GIT120 or GIT110</td>
<td>Fall, Spring</td>
<td>Fall, Spring</td>
<td></td>
</tr>
<tr>
<td>BIT202</td>
<td>Standard Office Procedures (or) BIT261</td>
<td>3</td>
<td>GIT110 or GIT120 (or) Completion of at least 2 semesters of business &amp; IT courses and/or comparable practical work experience. Permission of IT Coordinator</td>
<td>Fall, Spring, Summer</td>
<td>Fall, Spring, Summer</td>
<td></td>
</tr>
<tr>
<td>BIT203</td>
<td>Medical Office Procedures</td>
<td>3</td>
<td>(GIT120 or GIT110) &amp; BIT103</td>
<td>Fall, Spring, Summer</td>
<td>Fall, Spring, Summer</td>
<td></td>
</tr>
<tr>
<td>BIT207</td>
<td>Medical Coding and Billing</td>
<td>3</td>
<td>BIT103</td>
<td>Fall, Spring</td>
<td>Fall, Spring</td>
<td></td>
</tr>
</tbody>
</table>

Total Credits: 61/62

* If waived, must be replaced with a Business elective.
Information Technology Program
Administrative Assistant Concentration - Medical Track

Information Technology Program- Administrative Assistant Concentration Overview
Students in the Administrative Assistant concentration acquire a wide range of computer, communication, and organizational skills that prepare them for support positions in a modern office setting. Students enrolled in this concentration choose from the General or Medical tracks.

Overview
Students gain an understanding of medical procedures, medical terminology, and a conceptual and practical understanding of a computerized office environment in a medical setting. Students progress from basic keyboarding and word processing to advanced information processing and office procedures.

Career Outlook
Students completing the Medical Administrative Assistant track are prepared to provide administrative support in a variety of medical office and allied health services environments.

Program Outcomes
Upon completion of the Information Technology Program – Administrative Assistant Concentration – Medical Track, students are able to:

• Read, write, discuss and think critically about topics and ideas in information and/or office technology.
• Analyze ethical issues and apply ethical standards in the performance of responsibilities in a variety of information and office technology careers.
• Synthesize information from communications, information technology, office technology, and business to provide customer service and solve business problems.
• Assume positions in a variety of information and office technology careers.
• Work well with teams in an information or office technology setting.
• Transfer to baccalaureate programs.
## Associate in Science
### Information Technology Program
#### Graphic Design Concentration

To graduate in the Information Technology Program – Graphic Design Concentration, a student must complete the following required course of study.

<table>
<thead>
<tr>
<th>Course #</th>
<th>Course Title</th>
<th>Credits</th>
<th>Prerequisites</th>
<th>Semester Offered</th>
<th>Semester Taken</th>
<th>Grade Earned</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>General Education</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ENL101</td>
<td>English Composition I</td>
<td>3</td>
<td>Appropriate scores in Reading Comprehension &amp; in Sentence Skills on CPT or grade of C or better in ENL020 &amp; ENL050 or ESL201</td>
<td>Fall, Spring, Summer</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ART101</td>
<td>Design I</td>
<td>3</td>
<td>ENL010 &amp; ENL040 or satisfactory basic skills assessment score</td>
<td>Fall, Spring</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Behavioral and Social Science</td>
<td>3</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Behavioral and Social Science</td>
<td>3</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Mathematics /Quantitative Reasoning</td>
<td>3</td>
<td></td>
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</tr>
<tr>
<td></td>
<td>Natural or Physical Science</td>
<td>4</td>
<td></td>
<td></td>
<td></td>
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</tr>
<tr>
<td>ART207</td>
<td>Graphic Design I</td>
<td>3</td>
<td>ART214 or ART205 or ART210; ART130 &amp; ART137 recommended</td>
<td>Fall, Spring</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Behavioral and Social Science</strong></td>
<td></td>
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<td></td>
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</tr>
<tr>
<td><strong>Total Credits:</strong></td>
<td></td>
<td></td>
<td></td>
<td>62/63</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

* If waived, must be replaced with an Information Technology or ART elective.
**ART electives: Refer to page 2.
*** Any course with a GIT, BIT, HIT, or CSC course designation.
Associate in Science
Information Technology Program
Graphic Design Concentration

Overview
Students in the Information Technology Program - Graphic Design Concentration develop skills for understanding the language of design and preparation for entry level employment in the field. The language of design is applied through learning to use the latest, industry standard graphic and web design software.

Career Outlook
Students completing the Information Technology Program - Graphic Design Concentration are prepared for entry level employment in the field. Job descriptions are diverse; however, students should not expect to be qualified as designers.

Program Outcomes
Upon completion of the Information Technology Program – Graphic Design Concentration, students are able to:
- Demonstrate the application of visual language through proficient use of basic design and production skills.
- Demonstrate proficiency in basic computer operation and page layout software applications.
- Demonstrate proficiency in drawing and image software applications.
- Use the internet and integrate internet text and images in design media.
- Prepare designs for print and/or web production.
- Create and evaluate visual form in response to solving communication problems, including basic understanding and application of design elements, composition, typography, hierarchy, organization and the creation of meaningful images.
- Continue education in a baccalaureate program.

**ART Electives:**
ART103  Painting I
ART104  Watercolor I
ART209  Printmaking Techniques
ART218  Life Drawing(formerly ART107)
Associate in Science
Nursing Program

To graduate in the Nursing program, a student must complete the following required course of study.

Note: The following courses must be completed before entering the Nursing Program.
- BIO107  Human Anatomy & Physiology I*
- CHM109  Chemistry for the Health Sciences*
- NUR100  Pharmacology Calculations

<table>
<thead>
<tr>
<th>Course #</th>
<th>Course Title</th>
<th>Credits</th>
<th>Prerequisites</th>
<th>Semester Offered</th>
<th>Semester Taken</th>
<th>Grade Earned</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENL101</td>
<td><strong>English Composition I</strong></td>
<td>3</td>
<td>Appropriate scores in Reading Comprehension &amp; in Sentence Skills on CPT or grade of C or better in ENL020 &amp; ENL050 or ESL201</td>
<td>Fall, Spring, Summer</td>
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<tr>
<td>ENL02</td>
<td><strong>English Composition II</strong></td>
<td>3</td>
<td>A grade of C or higher in ENL101 (or) ENL010 or ESL102 or satisfactory basic skills assessment score</td>
<td>Fall, Spring, Summer</td>
<td></td>
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</tr>
<tr>
<td>COM103</td>
<td><strong>Human Communication</strong></td>
<td>3</td>
<td>ENL020 &amp; ENL050 or satisfactory basic skills assessment score</td>
<td>Fall, Spring, Summer</td>
<td></td>
<td></td>
</tr>
<tr>
<td>PSY101</td>
<td><strong>General Psychology</strong></td>
<td>3</td>
<td>ENL020 &amp; ENL050 or satisfactory basic skills assessment score</td>
<td>Fall, Spring, Summer</td>
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<tr>
<td>PSY233</td>
<td><strong>Developmental Psychology: The Life Span</strong></td>
<td>3</td>
<td>PSY101 &amp; ENL101</td>
<td>Fall, Spring, Summer</td>
<td></td>
<td></td>
</tr>
<tr>
<td>BIO108</td>
<td><strong>Human Anatomy and Physiology II</strong></td>
<td>4</td>
<td>A grade of C or higher in BIO107</td>
<td>Fall, Spring, Summer</td>
<td></td>
<td></td>
</tr>
<tr>
<td>BIO201</td>
<td><strong>Microbiology</strong></td>
<td>4</td>
<td>A grade of C or higher in CHM101 or CHM109 &amp; BIO101 or BIO107</td>
<td>Fall, Spring, Summer</td>
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<td></td>
</tr>
</tbody>
</table>

**General Education**

<table>
<thead>
<tr>
<th>Course #</th>
<th>Course Title</th>
<th>Credits</th>
<th>Prerequisites</th>
<th>Semester Offered</th>
<th>Semester Taken</th>
<th>Grade Earned</th>
</tr>
</thead>
<tbody>
<tr>
<td>NUR107</td>
<td>Fundamentals of Nursing</td>
<td>8</td>
<td>Admission to the College &amp; Nursing program; current AHA or ARC CPR certification; ENL020 &amp; ENL050 or satisfactory basic skills assessment score; NUR100 &amp; BIO107. BIT103 recommended. Co-requisite: BIO108, ENL101, PSY101</td>
<td>Fall</td>
<td></td>
<td></td>
</tr>
<tr>
<td>NUR201</td>
<td>Physical and Mental Health I</td>
<td>10</td>
<td>NUR108 or NUR132 &amp; current CPR certification. Co-requisite: BIO201&amp; HEA200</td>
<td>Fall</td>
<td></td>
<td></td>
</tr>
<tr>
<td>NUR202</td>
<td>Physical and mental Health II</td>
<td>8</td>
<td>NUR201, BIO201 &amp; HEA200</td>
<td>Spring</td>
<td></td>
<td></td>
</tr>
<tr>
<td>NUR203</td>
<td>Foundations of the Profession</td>
<td>3</td>
<td>NUR201</td>
<td>Spring</td>
<td></td>
<td></td>
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<tr>
<td>HEA200</td>
<td>Pharmacology</td>
<td>3</td>
<td>Acceptance into the Nursing program; Co-requisite: NUR107 and BIO108 or permission of instructor</td>
<td>Fall, Spring, Summer</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Total Credits: 63

* These two courses meet the revised General Education requirements (effective Fall 2010)
** Courses that can be completed in advance of applying to the Nursing program.
*** It is strongly recommended that students take both ENL102 and COM103.

Note: For those students seeking additional courses, or planning to continue their education to achieve a baccalaureate degree, the following courses are recommended: HEA120, HEA201, SOC106, SOC220, PHI210, and courses in computers or keyboarding.
The Associate in Science degree in Nursing is accredited by the National League for Nursing and is approved by the Board of Registration in Nursing of the Commonwealth of Massachusetts.

The Nursing program offers a specific sequence of courses that lead to the Associate in Science degree. Upon successful completion of the degree program, the Coordinator of the Nursing Program will furnish documentation to the Massachusetts Board of Registration in Nursing verifying that a student has met the legal responsibilities to be eligible for the National Council Licensure Examination for Registered Nurses (NCLEX). Cape Cod Community College (CCCC) Nursing program graduates become licensed as Registered Nurses upon successful completion of the NCLEX-RN.

In preparing your application, the Admissions Office and Nursing program recommends that you review the following information.

**Information Sessions**
It is essential that all Nursing applicants attend a Group Information Session that will include meeting with the Coordinator of Nursing, CCCC Admissions representative, and a review of application procedures and details about the Nursing Program. These sessions are scheduled periodically throughout the fall and spring semesters. Please go to our web site at [www.capecod.edu/web/admissions/visits](http://www.capecod.edu/web/admissions/visits) and follow the instructions under Selective Health Programs.

**Application Procedures**
A. Nursing applications are accepted ONLY for the FALL SEMESTER.
B. Each applicant will be evaluated relative to all other applicants in the current pool.
C. Applicants MUST submit all of the following items to the Admissions Office:
   1. A completed CCCC Application for Admission by January 5.
   2. An official high school transcript or GED diploma.
   3. An official transcript(s) from all colleges or universities ever attended (if applicable).
   4. A letter and/or resume indicating the reasons for selecting the Nursing Program, related experiences, motivation and other pertinent data. Applicants should take this opportunity to provide information covering any special circumstances in their background.

**Qualifications for Admission**
Satisfactory performance in the most recent educational experience is required and must include:
- Successful completion of Pharmacology Calculations (NUR100) within the last two years. At CCCC, MAT030 Elementary Algebra is a prerequisite for this course.
- Successful completion of Chemistry for the Health Sciences (CHM109), or an equivalent college/university chemistry course. At CCCC, MAT030 Elementary Algebra is a prerequisite for this course.
- Successful completion of Human Anatomy & Physiology I with a lab (BIO107 or the equivalent). At CCCC, MAT030 Elementary Algebra and CHM109 Chemistry for the Health Sciences or an equivalent college/university chemistry course are prerequisites for this course.

Nursing applicants with previous college credit may have fulfilled one or more prerequisites at another college or university. Transfer credit may be awarded if official transcripts show equivalent college-level course work required for the Nursing Program, from an accredited college or university, with a grade of C (2.0 on a 4.0 scale) or better.

**Priority will be given to applicants who:**
- Completed the required science courses, i.e., Anatomy & Physiology II, Microbiology.
- Completed the required general education courses, e.g., General Psychology, English Composition.
- Achieved a high level of academic success.
- Graduated from the CCCC Tri-level Certified Nurse Aide Certificate Program with a final grade of A and are recommended by the Allied Health Director.

**Assessment Placement**
The Basic Skills Assessment is required of all entering students. These examinations help to assess achievement levels in mathematics, writing and reading skills. The test results will assist in placing students into the correct level courses. Students who are required to study developmental educational courses should anticipate a three year program of study.

**Waiting List**
When the appropriate numbers of students have been accepted, the remaining qualified applicants are placed on the waiting list. Admission will be offered to applicants on the waiting list when an accepted student withdraws or is withdrawn by the Admissions Office. The waiting list is maintained until the first day of the fall semester, and then it is dissolved.

**Nursing Course Progression**
Students must maintain a cognitive grade of 77% or better in each nursing course and a satisfactory clinical evaluation in order to proceed to the subsequent nursing course.

**CPR Certification**
Students are required to document and maintain CPR Certification throughout the Nursing program. There are a variety of certification programs available. However, when choosing a CPR certification course, students must ensure that the course includes adult, child, and infant CPR and a written and practical exam.

**Drug Screening**
Students are required to complete drug screening at a testing site designated by Cape Cod Community College early in the first semester of the freshman year.
Criminal Offender Record Information and Sex Offender Record Information
Please refer to the policy statement of Criminal Offender Record Information and Sex Offender Registry Information checks.

Good Moral Character: Standard for Licensure
Applicants who have been convicted of a felony or misdemeanor by a court of law must comply with the requirements to document "Good Moral Character" through the Massachusetts Board of Nursing before being eligible to take the NCLEX-RN examination to become licensed as a Registered Nurse. An individual who has been convicted of certain designated felonies is permanently ineligible for licensure as a Registered Nurse in Massachusetts.

Health Requirements
Nursing students must complete specific health and immunization requirements. For more information, please visit www.capecod.edu/web/registrar/immunization.

Nursing Student Accountability for Patient/Client Care
The Cape Cod Community College nursing student must demonstrate accountability for his/her own actions in the delivery of nursing care in a way that ensures the health and safety of patients/clients, staff and self. The student will be able to function in a manner that does not pose a direct threat as defined by the Board of Registration in Nursing (BORN) as "a significant risk to the health or safety of others that cannot be eliminated by a modification of policies, practices, or procedures or by the provision of auxiliary aids or services."

Students who are evaluated as unable to meet the Nursing Program Technical Standards should follow the Cape Cod Community College grievance policy.

Nursing Evening Option - Overview
The course sequencing is based on the term of enrollment. Nursing classes and clinical experiences are scheduled evenings and on alternate Saturdays. In addition to the prerequisites listed for NUR107-Day Option, students must complete the following course work prior to admission to the Evening Option: ENL101, PSY101, BIO108, PSY233, and ENL102 or COM103. Completion of BIO201 is strongly recommended.

Nursing Program - LPN to RN – Overview
In order to be considered for admission to this program, the applicant must have a current LPN license and have completed all prerequisites. In addition to the prerequisites listed for NUR107-Day Option, students must complete the following course work prior to admission to the transition course: ENL101, PSY101, BIO107, PSY233, and ENL102 or COM103. Completion of BIO201 is strongly recommended.

NUR132 - The LPN in Transition course is offered during the late spring. Successful completion of NUR132 admits the student to the third semester Nursing course, NUR201.

Career Outlook
Employment opportunities are available as an entry-level Registered Nurse in hospitals, long-term care facilities and other health care agencies.

Program Outcomes
Upon completion of the Nursing Program, students are able to:

- Synthesize data from biopsychosocial sciences for patients/clients at all developmental levels to provide nursing care
- Synthesize knowledge of stress-adaptation theory to promote and restore health
- Synthesize components of the nursing process to assist patients/clients to move toward optimal health
- Integrate knowledge of the patients/clients relationship to family, community and the external environment in providing nursing care
- Develop therapeutic nurse-patient relationships
- Function as a member of the multidisciplinary health team caring for individuals with common problems in acute and long-term structured care settings
- Demonstrate accountability for delegation of nursing tasks to unlicensed assistive personnel
- Provide nursing care based on the profession's ethical code of behavior and with respect for the beliefs and cultural practices of others
- Demonstrate accountability for own actions in the delivery of nursing care
- Integrate information literacy into one's role as a life-long learner.

If you are interested in the Nursing Program - Evening Option or the LPN to RN program, please request additional information from the Admissions Office.
Certificate Programs

Students whose placement scores indicate an insufficient level of proficiency will be required to complete MAT020 Prealgebra and ENL050 Foundations in Writing. Credits earned in these courses will be in addition to the required credits in each certificate. Certificates of 16 to 29 credits require satisfactory completion of at least one 100-level course from the general education requirement list, page 26.

Any student taking online courses or courses with online components will be responsible to have access to both the Internet and a computer running Internet Explorer version 5.5 or higher.

Please visit www.capecod/online for more information detailing online course requirements.

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Alcohol and Substance Abuse Counselor I Certificate

Overview
The Alcohol and Substance Abuse Counselor I Certificate is designed to provide students with the skills necessary to counsel clients in the recovery process under clinical and administrative supervision. Topics and skills include assessment, case management, crisis intervention, client education, and community resources. A student who is interested in transferring into a four year undergraduate program in the area of alcohol and substance abuse can complete the certificate through electives in the Associates in Arts Human Services Concentration at Cape Cod Community College.

Career Outlook
Click here for O*NET Online Occupation information.

<table>
<thead>
<tr>
<th>Course #</th>
<th>Course Title</th>
<th>Credits</th>
<th>Prerequisites</th>
<th>Semester Offered</th>
<th>Semester Taken</th>
<th>Grade Earned</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSY101</td>
<td>General Psychology</td>
<td>3</td>
<td>ENL020 &amp; ENL050 or satisfactory basic skills assessment score</td>
<td>Fall, Spring, Summer</td>
<td></td>
<td></td>
</tr>
<tr>
<td>HUS104</td>
<td>Introduction to Alcohol and Substance Abuse</td>
<td>3</td>
<td>ENL020 &amp; ENL050 or satisfactory basic skills assessment score</td>
<td>Fall, Spring</td>
<td></td>
<td></td>
</tr>
<tr>
<td>COM103</td>
<td>Human Communication</td>
<td>3</td>
<td>ENL010 or ESL102 or satisfactory basic skills assessment score</td>
<td>Fall, Spring, Summer</td>
<td></td>
<td></td>
</tr>
<tr>
<td>HUS101</td>
<td>Introduction to Human Services</td>
<td>3</td>
<td>None</td>
<td>Fall, Spring, Summer</td>
<td></td>
<td></td>
</tr>
<tr>
<td>HEA120</td>
<td>Stress Management for Optimal Health</td>
<td>3</td>
<td>None</td>
<td>Fall, Spring</td>
<td></td>
<td></td>
</tr>
<tr>
<td>HUS204</td>
<td>Addictions Practicum</td>
<td>3</td>
<td>COM103, PSY101, HUS101, and HUS104; Co-requisite: HEA120</td>
<td>Fall, Spring, Summer</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Total Credits</td>
<td></td>
<td>18</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Program Outcomes
Upon successful completion of the Alcohol and Substance Abuse Counselor I Certificate, students are able to:
- Recognize a broad range of services that addictions professionals provide.
- Understand a basic connection between social issues such as poverty, mental health, domestic violence, and addiction.
- Practice observation and interpersonal communication techniques.
- Demonstrate ethical practices when working with diverse populations.
- Complete the Massachusetts LADCIII.

Please refer to the policy statement of Criminal Offender Record Information (CORI) and Sex Offender Registry Information (SORI).
Alcohol and Substance Abuse Counselor II Certificate

<table>
<thead>
<tr>
<th>Course #</th>
<th>Course Title</th>
<th>Credits</th>
<th>Prerequisites</th>
<th>Semester Offered</th>
<th>Semester Taken</th>
<th>Grade Earned</th>
</tr>
</thead>
<tbody>
<tr>
<td>HUS102</td>
<td>Mental Health, Substance Abuse, and Families</td>
<td>3</td>
<td>PSY101 or SOC106</td>
<td>Fall, Spring</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ENL101</td>
<td>English Composition I</td>
<td>3</td>
<td>Appropriate scores in Reading Comprehension &amp; in Sentence Skills on the CPT or a grade of C or better in ENL020 &amp; ENL050 or ESL201</td>
<td>Fall, Spring, Summer</td>
<td></td>
<td></td>
</tr>
<tr>
<td>PSY209</td>
<td>Group Dynamics in Human Services</td>
<td>3</td>
<td>PSY101 or SOC106</td>
<td>Fall, Spring</td>
<td></td>
<td></td>
</tr>
<tr>
<td>HUS106</td>
<td>Treatment Modalities in Human Services</td>
<td>3</td>
<td>PSY101</td>
<td>Fall, Spring</td>
<td></td>
<td></td>
</tr>
<tr>
<td>PSY208</td>
<td>Principles of Counseling &amp; Crisis Intervention</td>
<td>3</td>
<td>PSY101</td>
<td>Fall, Spring</td>
<td></td>
<td></td>
</tr>
<tr>
<td>HUS205</td>
<td>Advanced Addictions Practicum</td>
<td>3</td>
<td>ENL101, HUS102, HUS204, PSY208, PSY209; Co-requisite: HUS106</td>
<td>Varies</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Total Credits</td>
<td></td>
<td>18</td>
<td></td>
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</tr>
</tbody>
</table>

Overview
The Alcohol and Substance Abuse Counselor II Certificate is designed to provide students with the skills necessary to counsel clients in the recovery process under clinical supervision. Topics and skills include assessment, treatment planning, individual and group counseling, case management, crisis intervention, client education, and community resources. A student who is interested in transferring into a four year undergraduate program in the area of alcohol and substance abuse can complete the certificate through electives in the Associates in Arts Human Services Concentration at Cape Cod Community College.

Career Outlook
Click here for O*NET Online Occupation information.

Program Outcomes
Upon successful completion of the Alcohol and Substance Abuse Counselor II Certificate, students are able to:
- Recognize the extent of services that addictions professionals provide and identify theories and treatment modalities used in the prevention, intervention, treatment, and recovery.
- Describe addiction and its consequences for family and individual systems.
- Understand the connection between social issues such as poverty, mental health, domestic violence, and addiction.
- Practice observation, interpersonal communication, and group facilitation techniques.
- Demonstrate ethical practices when working with diverse populations.
- Complete the academic portion of the Massachusetts LADC II.

Please refer to the policy statement of Criminal Offender Record Information (CORI) and Sex Offender Registry Information (SORI).
Allied Health

Diagnostic Technician Certificate

Click here for Gainful Employment information pertaining to Diagnostic Technician.

<table>
<thead>
<tr>
<th>Course #</th>
<th>Course Title</th>
<th>Credits</th>
<th>Prerequisites</th>
<th>Semester Offered</th>
<th>Semester Taken</th>
<th>Grade Earned</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIT103</td>
<td>Medical Terminology</td>
<td>3</td>
<td>ENL020 &amp; ENL050 or satisfactory basic skills assessment score</td>
<td>Fall, Spring, Summer</td>
<td></td>
<td></td>
</tr>
<tr>
<td>COM103</td>
<td>Human Communication</td>
<td>3</td>
<td>ENL010 or ESL102 or satisfactory basic skills assessment score</td>
<td>Fall, Spring, Summer</td>
<td></td>
<td></td>
</tr>
<tr>
<td>DTC102</td>
<td>EKG Technician</td>
<td>2</td>
<td>None</td>
<td>Fall, Spring</td>
<td></td>
<td></td>
</tr>
<tr>
<td>DTC104</td>
<td>Fundamentals of Phlebotomy</td>
<td>6</td>
<td>None</td>
<td>Fall, Spring</td>
<td></td>
<td></td>
</tr>
<tr>
<td>DTC204</td>
<td>Phlebotomy Practicum</td>
<td>2</td>
<td>DTC104 with passing grade of 75% or better, successful demonstration of skill proficiency &amp; recommendation of faculty</td>
<td>Fall, Spring</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Total Credits</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>16</td>
</tr>
</tbody>
</table>

Allied Health Certificate Admission Requirements
Admission into the Allied Health certificates requires that the applicant attend an information session and have an interview. Students must also meet all health requirements (Immunization Requirements) and pass a CORI/SORI check. To remain in these programs a student must maintain a 75% average in the required courses, a satisfactory clinical evaluation, and adhere to the attendance policy.

Overview
This certificate prepares students to function in a variety of settings assisting with diagnostic testing including phlebotomy and EKG. The additional courses provide students with the vocabulary and communication skills to work with the public in the health care setting.

Graduates are eligible to take the national credentialing exams in Phlebotomy and EKG.

Career Outlook
Click here for O*NET Online Occupation information.

Program Outcomes
Upon successful completion of the Diagnostic Technician certificate, students are able to:

- Communicate and interact with a caring and professional attitude in the clinical setting
- Demonstrate competence and accuracy in skills and procedures involved in the diagnostic tests which involve phlebotomy and EKG
- Interpret medical terminology pertaining to the practice area.
# Allied Health

## Massage Therapy Certificate

*Click here for Gainful Employment information pertaining to Massage Therapy.*

<table>
<thead>
<tr>
<th>Course #</th>
<th>Course Title</th>
<th>Credits</th>
<th>Prerequisites</th>
<th>Semester Offered</th>
<th>Semester Taken</th>
<th>Grade Earned</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Semester I</strong></td>
<td></td>
<td></td>
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<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>BIO105</td>
<td>Survey of Human Anatomy and Physiology*</td>
<td>4</td>
<td>MAT020, ENL020, &amp; ENL050 or satisfactory basic skills assessment scores</td>
<td>Fall, Spring, Summer</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MTC135</td>
<td>Intro to Complementary Healing Practices</td>
<td>3</td>
<td>None</td>
<td>Fall, Spring</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MTC101</td>
<td>Massage Therapy I</td>
<td>4</td>
<td>Co-requisite: BIO105 &amp; MTC135</td>
<td>Fall, Spring</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Semester II</strong></td>
<td></td>
<td></td>
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<td></td>
<td></td>
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<tr>
<td>MTC201</td>
<td>Massage Therapy II</td>
<td>4</td>
<td>MTC101; Co-requisite: MTC116</td>
<td>Fall, Spring</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MTC116</td>
<td>Kinesiology for Massage Therapy</td>
<td>3</td>
<td>BIO105</td>
<td>Fall, Spring</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MTC205</td>
<td>Massage Therapy Clinical Practicum</td>
<td>2</td>
<td>MTC101, MTC115 &amp; MTC105</td>
<td>Fall, Spring</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Semester III</strong></td>
<td></td>
<td></td>
<td></td>
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<td></td>
<td></td>
</tr>
<tr>
<td>MTC205</td>
<td>Massage Therapy Clinical Practicum (continued)</td>
<td>MTC101, MTC115 &amp; MTC105</td>
<td></td>
<td>Fall, Spring</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MTC110</td>
<td>Pathology for Massage Therapy</td>
<td>3</td>
<td>BIO105</td>
<td>Fall, Spring</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MTC210</td>
<td>Massage Therapy III</td>
<td>4</td>
<td>MTC101, MTC201 Co-requisite: MTC110</td>
<td>Fall, Spring</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MTC225</td>
<td>Massage Therapy Professional Ethics and Practice Management</td>
<td>2</td>
<td>MTC101</td>
<td>Fall, Spring, Summer</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Total Credits</strong></td>
<td></td>
<td></td>
<td></td>
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<td>29</td>
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</tr>
</tbody>
</table>

### Allied Health Certificate Admission Requirements

Admission into the Allied Health certificates requires that the applicant attend an information session and have an interview. Students must also meet all health requirements (Immunization Requirements) and pass a Criminal Offender Record Information (CORI) and Sex Offender Record Information (SORI) check. To remain in these programs a student must maintain a 75% average in the required courses, a satisfactory clinical evaluation, and adhere to the attendance policy.

### Overview

The Massage Therapy certificate provides 650 hours in the art and science of massage. A focus is the mind-body connection, and how caring, competent touch can promote healing. Students practice their skills in a supervised, clinical setting. Graduates are qualified to take the national certification exam. Acceptance into the certificate is contingent upon an acceptable report from the Criminal Offender Record Information (CORI) and Sex Offender Record Information (SORI).

### Career Outlook Statement

*Click here for O*NET Online Occupation information.*

### Program Outcomes

Students completing the Massage Therapy certificate are qualified to apply to the Massachusetts Massage Board for licensure. Upon completion, students are also qualified to take the NCBTMB examination and are able to:

- Plan and organize an effective massage and bodywork session.
- Perform a massage therapy and bodywork session for therapeutic benefit.
- Develop and implement a self-care strategy.
- Develop successful and ethical therapeutic relationships with clients.
- Develop a strategy for a successful practice, business or employment situation.
- Identify strategies to participate in professional activities and pursue professional development.

Refer to the policy statement for the Criminal Offender Record Information (CORI) and Sex Offender Record Information (SORI).

*For students interested in pursuing other health-careers, BIO107 and BIO108 (Human Anatomy and Physiology I & II) are recommended. See your advisor for more information.*
Allied Health

Medical Assisting Certificate

Click here for Gainful Employment information pertaining to Medical Assisting.

The Medical Assisting Certificate program is accredited by the Commission on Accreditation of Allied Health Education Programs upon the recommendation of the Medical Assisting Education Review Board (MAERB).

<table>
<thead>
<tr>
<th>Course #</th>
<th>Course Title</th>
<th>Credits</th>
<th>Prerequisites</th>
<th>Semester Offered</th>
<th>Semester Taken</th>
<th>Grade Earned</th>
</tr>
</thead>
<tbody>
<tr>
<td>GI110</td>
<td>Microcomputer Applications Software</td>
<td>3</td>
<td>GIT102 or equivalent, ENL020, &amp; ENL050 or satisfactory basic skills assessment score</td>
<td>Fall, Spring, Summer</td>
<td></td>
<td></td>
</tr>
<tr>
<td>BIT103</td>
<td>Medical Terminology</td>
<td>3</td>
<td>ENL020 &amp; ENL050 or satisfactory basic skills assessment score</td>
<td>Fall, Spring, Summer</td>
<td></td>
<td></td>
</tr>
<tr>
<td>BIO105</td>
<td>Survey of Human Anatomy &amp; Physiology*</td>
<td>4</td>
<td>MAT020, ENL020, &amp; ENL050 or satisfactory basic skills assessment scores</td>
<td>Fall, Spring, Summer</td>
<td></td>
<td></td>
</tr>
<tr>
<td>GI105</td>
<td>Office Communication Systems</td>
<td>3</td>
<td>ENL020 &amp; ENL050 or satisfactory basic skills assessment score</td>
<td>Fall, Spring</td>
<td></td>
<td></td>
</tr>
<tr>
<td>PSY101</td>
<td>General Psychology</td>
<td>3</td>
<td>ENL020 &amp; ENL050 or satisfactory basic skills assessment score</td>
<td>Fall, Spring, Summer</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MAC101</td>
<td>Fundamentals of Medical Assisting***</td>
<td>3</td>
<td>ENL020, ENL050, &amp; MAT020 or satisfactory basic skills assessment scores</td>
<td>Fall</td>
<td></td>
<td></td>
</tr>
<tr>
<td>HEA130</td>
<td>Standard First Aid &amp; Basic Life Support</td>
<td>1</td>
<td>None</td>
<td>Fall, Spring</td>
<td></td>
<td></td>
</tr>
<tr>
<td>BI203</td>
<td>Medical Office Procedures**</td>
<td>3</td>
<td>GIT120 or GIT110 &amp; BIT103</td>
<td>Spring</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MAC203</td>
<td>Medical Assisting Clinical Procedures &amp; Clinical Practicum**</td>
<td>6</td>
<td>BIT103, BIO105, &amp; MAC101; Co-requisite: BIT203</td>
<td>Spring</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Total Credits: 29

Allied Health Certificate Admission Requirements

Admission into the Allied Health certificates requires that the applicant attend an information session and have an interview. Students must also meet all health requirements (Immunization Requirements) and pass a Criminal Offender Record Information (CORI) and Sex Offender Record Information (SORI) check. To remain in these programs a student must maintain a 75% average in the required courses, a satisfactory clinical evaluation, and adhere to the attendance policy.

Overview

Students in the Medical Assisting certificate acquire a wide range of clinical, computer, communication, and organizational skills that prepare them for a multitude of positions in various medical environments. Medical Assistants are versatile, multifaceted professionals.

Career Outlook

Click here for O*NET Online Occupation information.

Program Outcomes

Upon completion of this certificate, entry-level Medical Assistants are able to:

- Demonstrate competence in both administrative and clinical skills.
- Apply the knowledge acquired in the program in both the administrative and clinical areas under supervision and direction of the physician.
- Practice the behaviors that reflect a professional and caring attitude.
- Display sensitivity to all patients.
- Describe the value of obtaining professional certification and continuing education.

Refer to the policy for the Criminal Offender Record Information (CORI) and Sex Offender Record Information (SORI) check.

*For those planning on pursuing other health careers, BIO107 and BIO108 are recommended.

**Must be taken concurrently.

***If MAC101 is over-subscribed, preference will be given to accepted students who have successfully completed BIT103 & BIO105.
Allied Health
Medical Interpreter Certificate

<table>
<thead>
<tr>
<th>Course #</th>
<th>Course Title</th>
<th>Credits</th>
<th>Prerequisites</th>
<th>Semester Offered</th>
<th>Semester Taken</th>
<th>Grade Earned</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIT103</td>
<td>Medical Terminology</td>
<td>3</td>
<td>ENL020 &amp; ENL050 or satisfactory basic skills assessment score</td>
<td>Fall, Spring, Summer</td>
<td></td>
<td></td>
</tr>
<tr>
<td>BIO105</td>
<td>Survey of Anatomy and Physiology</td>
<td>4</td>
<td>MAT020, ENL020, &amp; ENL050 or satisfactory basic skills assessment scores</td>
<td>Fall, Spring, Summer</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MIN101</td>
<td>Medical Interpreter I</td>
<td>3</td>
<td>ENL020 &amp; ENL050 or satisfactory basic skills assessment score or ESL201 &amp; target language assessment conducted at the 1st class session</td>
<td>Fall, Spring, Summer</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MIN102</td>
<td>Medical Interpreter II</td>
<td>3</td>
<td>BIT103 &amp; MIN101 with a grade of C or higher</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MIN200</td>
<td>Medical Interpreter Practicum*</td>
<td>3</td>
<td>MIN102; co-requisite: BIO105</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Total Credits</td>
<td></td>
<td></td>
<td></td>
<td>16</td>
<td></td>
</tr>
</tbody>
</table>

**Allied Health Certificate Admission Requirements**
Admission into the Allied Health certificates requires that the applicant attend an information session and have an interview. Students must also meet all health requirements (Immunization Requirements) and pass a Criminal Offender Record Information (CORI) and Sex Offender Record Information (SORI) check. To remain in these programs a student must maintain a 75% average in the required courses, a satisfactory clinical evaluation, and adhere to the attendance policy.

**Overview**
Medical Interpreters enable accurate cross-cultural communication of information from one language to another in healthcare contexts. "Interpreters strive to render the message accurately, conveying the content and spirit of the original message taking into consideration the cultural context" (National Council on Interpreting in Healthcare Inc., 2005). Fluency in English and one or more target languages such as Portuguese and Spanish is required as well as sensitivity to the cultures associated with the target language.

**Career Outlook**
Click here for O*NET Online Occupation information.

**Program Outcomes**
Upon completion of the Medical Interpreter Certificate, students are able to:
- Accurately transmit information in the source language of healthcare professionals and the target language of patients and family members.
- Adhere to the ethical code of recognized medical interpreter organizations**.
- Execute the role of medical interpreter according to established standards of practice.
- Function as a cross-cultural broker to promote culturally and linguistically competent healthcare to patients and families with limited English language proficiency.

*MIN200 participants in a clinical site practicum must meet all immunization requirements and pass CORI/SORI checks. Please refer to the policy statements of Immunization Requirements and Criminal Offender Record Information and Sex Offender Registry Information.

**Standards reference the National Council on Interpreting in Healthcare (NCIHC).
# Allied Health

## Paramedic Certificate

<table>
<thead>
<tr>
<th>Course #</th>
<th>Course Title</th>
<th>Credits</th>
<th>Prerequisites</th>
<th>Semester Offered</th>
<th>Semester Taken</th>
<th>Grade Earned</th>
</tr>
</thead>
<tbody>
<tr>
<td>EMS201*</td>
<td>Advanced Pre-Hospital Training Program: Paramedic I</td>
<td>7</td>
<td>ENL020 &amp; MAT020 or satisfactory basic skills assessment scores</td>
<td>Fall</td>
<td></td>
<td></td>
</tr>
<tr>
<td>EMS202/</td>
<td>Advanced Pre-Hospital Training Program: Paramedic II / Paramedic Clinical Field Experience</td>
<td>8</td>
<td>EMS201</td>
<td></td>
<td>Spring</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Total Credits</td>
<td>15</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Allied Health Certificate Admission Requirements
Admission into the Allied Health certificates requires that the applicant attend an information session and have an interview. Students must also meet all health requirements (Immunization Requirements) and pass a Criminal Offender Record Information (CORI) and Sex Offender Record Information (SORI) check. To remain in these programs a student must maintain a 75% average in the required courses, a satisfactory clinical evaluation, and adhere to the attendance policy.

### Overview
This program is designed to assist the student to prepare for the State Certificate Exam for Paramedic. Students will be given the basic skills and technical information to provide emergency medical services at the paramedic level.

### Career Outlook
[Click here for O*NET Online Occupation information.](#)

### Program Outcomes
Upon completion of the Paramedic Certificate, students are able to:
- Describe the roles and responsibilities of a Paramedic within the EMS system.
- Apply the basic concepts of development, pathophysiology, and pharmacology to assessment and management of emergency patients.
- Demonstrate competence in performing the skills and procedures required of paramedics.
- Safely manage the scene of an emergency including effective ground and air transport, general incident management, and multiple casualty incident management.
- Integrate pathophysiological principles and assessment findings to formulate a field impression and implement a treatment plan for patients of all ages in a variety of situations, e.g., trauma, medical crises, neonatal.
- Demonstrate an attitude of professionalism, respect, care and concern for the dignity of the individual.

* Applicants must be currently certified as an EMT and are required to attend an information session.
Allied Health
Tri-Level Nursing Assistant / Home Health Aide Certificate

<table>
<thead>
<tr>
<th>Course #</th>
<th>Course Title</th>
<th>Credits</th>
<th>Prerequisites</th>
<th>Semester Offered</th>
<th>Semester Taken</th>
<th>Grade Earned</th>
</tr>
</thead>
<tbody>
<tr>
<td>CNA117</td>
<td>Tri-Level Nursing Assistant/Home Health Aide</td>
<td>6</td>
<td>None</td>
<td>Fall, Spring</td>
<td></td>
<td></td>
</tr>
<tr>
<td>HEA130</td>
<td>Standard First Aide and Basic Life Support (CPR)</td>
<td>1</td>
<td>None</td>
<td>Fall, Spring</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Total Credits</td>
<td></td>
<td>7</td>
<td></td>
<td></td>
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<td></td>
</tr>
</tbody>
</table>

**Allied Health Certificate Admission Requirements**
Admission into the Allied Health certificates requires that the applicant attend an information session and have an interview. Students must also meet all health requirements (Immunization Requirements) and pass a Criminal Offender Record Information (CORI) and Sex Offender Record Information (SORI) check. To remain in these programs a student must maintain a 75% average in the required courses, a satisfactory clinical evaluation, and adhere to the attendance policy.

**Overview**
This 156-hour certificate program teaches basic nursing skills and beginning interpersonal relationship skills. The graduate will be able to provide care to patients of all ages under the direction and supervision of a registered nurse. Day and evening classes offered.

**Career Outlook**
There are unlimited employment opportunities for graduates to work in hospitals, nursing homes, assisted living, home care and hospice settings. Graduates are certified as nursing assistants and home health aides and certified in CPR/First Aid Basic Life Support.

**Program Outcomes**
Upon completion of this certificate, students are able to:
- Provide basic care in activities of daily living to patients of all ages under the direction and supervision of the registered nurse in healthcare facilities and in private homes.
- Demonstrate basic competence in skills required by state and federal guidelines.
- Communicate a caring attitude and behaviors in all professional interactions.
- Apply principles of patient safety and infection control.
- Pass the state exam both written and skills demonstration and be placed in the Nurse Aide Registry.
## Construction Technology Certificate

**Overview**

The certificate provides an introduction to the process of construction from start to finish, including the application of Massachusetts State Building Code, experience using computer assisted drafting software, and building materials and testing. Unique to this program is the integration of principles, practices, standards, and materials necessary to ensure sustainable construction which address environmental issues and renewable energy use. In addition, students have the opportunity to complete the certificate with the selection of two electives from a selection of construction, business, and environmental technology courses.

The coursework in the Construction Technology certificate may be helpful in obtaining the knowledge and skills necessary to pass the Massachusetts Construction Supervisors Exam.

### Career Outlook

Click here for O*NET Online Occupation information.

### Program Outcomes

Upon completion of the Construction Technology certificate, students are able to:
- Apply basic construction knowledge and skills.
- Integrate sustainable and renewable energy standards, methods and materials to residential and commercial building construction projects.
- Demonstrate knowledge of industry standard tools for effective building practices including software, code implementation, and interpretation.
- Prepare basic working drawings for building construction using computer assisted drafting with AutoCAD software.
- Use basic business practices and principles for the execution of a construction project.

### Course Information

<table>
<thead>
<tr>
<th>Course #</th>
<th>Course Title</th>
<th>Credits</th>
<th>Prerequisites</th>
<th>Semester Offered</th>
<th>Semester Taken</th>
<th>Grade Earned</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENL101</td>
<td>English Composition I</td>
<td>3</td>
<td>Appropriate scores in Reading Comprehension and in Sentence Skills on CPT or grade of C or better in ENL020 &amp; ENL050 or ESL201</td>
<td>Fall, Spring, Summer</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CON100</td>
<td>Quantitative Skills for Construction</td>
<td>2</td>
<td>MAT030 or satisfactory basic skills assessment score</td>
<td>Summer</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CON105</td>
<td>Materials of Construction</td>
<td>3</td>
<td>None</td>
<td></td>
<td>Spring</td>
<td></td>
</tr>
<tr>
<td>CON110</td>
<td>Construction Technology</td>
<td>3</td>
<td>None</td>
<td>Fall, Summer</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CON120</td>
<td>Understanding and Working with the MA State Building Codes</td>
<td>3</td>
<td>None</td>
<td>Fall</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CON130</td>
<td>Computer Aided Drafting I</td>
<td>3</td>
<td>None</td>
<td>Fall, Spring, Summer</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

* Construction Technology elective* (or) Environmental Science elective*

<table>
<thead>
<tr>
<th>Courses</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENL101</td>
<td>3</td>
</tr>
<tr>
<td>CON100</td>
<td>2</td>
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<tr>
<td>CON105</td>
<td>3</td>
</tr>
<tr>
<td>CON110</td>
<td>3</td>
</tr>
<tr>
<td>CON120</td>
<td>3</td>
</tr>
<tr>
<td>CON130</td>
<td>3</td>
</tr>
</tbody>
</table>

| Total Credits | 23 |

### Program Electives

* Construction Technology & Environmental Science Electives

- BUS120  Business Law I
- CON101  Blueprint Reading: Construction Trades
- CON115  Construction Estimating
- CON125  Architectural Drafting and Construction Drawing
- CON135  Computer Aided Drafting II
- CON225  Architectural Computer Aided Drafting I
- ENV122  Environmental Management and Decision Making
- ENV140  Introduction to Water: Concepts and Technologies
- ENV170  Renewable Energy Sources
- ENV171  Energy Efficiency and Conservation Methods
- ENV172  Commercial Energy Audits
- ENV173  Introduction to Solar Energy
- GIT1106 Office Accounting (or)
- ACC111  Accounting I with Computer Applications
Customer Service Certificate

Click here for Gainful Employment information pertaining to Customer Service.

<table>
<thead>
<tr>
<th>Course #</th>
<th>Course Title</th>
<th>Credits</th>
<th>Prerequisites</th>
<th>Semester Offered</th>
<th>Semester Taken</th>
<th>Grade Earned</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUS100</td>
<td>Introduction to Business</td>
<td>3</td>
<td>None</td>
<td>Fall, Spring, Summer</td>
<td></td>
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<tr>
<td>COM103</td>
<td>Human Communication</td>
<td>3</td>
<td>ENL010 or ESL102 or satisfactory basic skills assessment score</td>
<td>Fall, Spring, Summer</td>
<td></td>
<td></td>
</tr>
<tr>
<td>COM201 (or) COM204</td>
<td>Interpersonal Communication (or) Persuasive Communication</td>
<td>3</td>
<td>COM103 or ENL101 (or) COM103 or ENL101</td>
<td>Fall, Spring</td>
<td>Spring</td>
<td></td>
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<tr>
<td>GIT102</td>
<td>Computer Keyboarding</td>
<td>1</td>
<td>None</td>
<td>Fall, Spring</td>
<td></td>
<td></td>
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<tr>
<td>GIT108</td>
<td>Windows Operating Systems</td>
<td>1</td>
<td>ENL020 &amp; ENL050 or satisfactory basic skills assessment score</td>
<td>Fall, Spring</td>
<td></td>
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<tr>
<td>MKT106</td>
<td>Consumer Behavior</td>
<td>3</td>
<td>MKT100 (formerly MKT205)</td>
<td>Fall, Spring, Summer</td>
<td></td>
<td></td>
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<tr>
<td>MKT112</td>
<td>Customer Service: Concepts and Applications</td>
<td>3</td>
<td>None</td>
<td>Fall, Spring, Summer</td>
<td></td>
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<tr>
<td>Total Credits</td>
<td></td>
<td></td>
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<td>17</td>
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</table>

Overview
Students in the Customer Service certificate develop and enhance their communication skills as well as have a greater understanding of consumer behavior. Students are encouraged to build on this certificate to eventually obtain an A.S. Business Administration degree concentrating in Marketing.

Career Outlook
Click here for O*NET Online occupation information.
Overview
These certificates are designed to provide focused training in Early Childhood Education. Participants can elect either a preschool or an infant and toddler concentration. Students already employed in the field can use their centers as placement sites for the Practicum.

Certificate holders are eligible to apply to the Massachusetts Office of Child Care Services for teacher certification. All courses can be transferred into the Early Childhood Education Associate in Science degree at Cape Cod Community College.

Career Outlooks
Click here for O*NET Online Occupation information.

"All children" means all children with developmental delays or disabilities, children who are gifted and talented, children whose families are culturally and linguistically diverse, children from diverse socioeconomic groups, and other children with individual learning styles, strengths, and needs”.

National Association for the Education of Young Children
Early Childhood Education Certificate - Preschool Concentration

<table>
<thead>
<tr>
<th>Course #</th>
<th>Course Title</th>
<th>Credits</th>
<th>Prerequisites</th>
<th>Semester Offered</th>
<th>Semester Taken</th>
<th>Grade Earned</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECE100</td>
<td>Intro. to Early Childhood Education</td>
<td>3</td>
<td>ENL020 &amp; ENL050 or satisfactory basic skills assessment scores</td>
<td>Fall, Spring</td>
<td></td>
<td></td>
</tr>
<tr>
<td>PSY101</td>
<td>General Psychology</td>
<td>3</td>
<td>ENL020 &amp; ENL050 or satisfactory basic skills assessment scores</td>
<td>Fall, Spring, Summer</td>
<td></td>
<td></td>
</tr>
<tr>
<td>PSY201</td>
<td>Child Psychology</td>
<td>3</td>
<td>PSY101</td>
<td>Fall, Spring, Summer</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ECE105</td>
<td>Intro. to Children with Special Needs</td>
<td>3</td>
<td>ECE100 or PSY201</td>
<td>Fall, Spring</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ECE201</td>
<td>Preschool Curriculum Planning</td>
<td>3</td>
<td>ECE100 or PSY201</td>
<td>Fall, Spring</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ECE202</td>
<td>Advanced Curriculum Development: Creative Experiences for Early Childhood Education</td>
<td>3</td>
<td>ECE201</td>
<td>Fall, Spring</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ECE230</td>
<td>Practicum in Early Childhood Education</td>
<td>6</td>
<td>ECE105, ECE201, PSY201*, (ECE200 or ECE202) &amp; a minimum 2.0 GPA in ECE courses</td>
<td>Fall, Spring</td>
<td></td>
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<tr>
<td>Total Credits</td>
<td></td>
<td>24</td>
<td></td>
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</tbody>
</table>

**Overview**

These certificates are designed to provide focused training in Early Childhood Education. Participants can elect either a preschool or an infant and toddler concentration. Students already employed in the field can use their centers as placement sites for the Practicum.

Certificate holders are eligible to apply to the Massachusetts Office of Child Care Services for teacher certification. All courses can be transferred into the Early Childhood Education Associate in Science degree at Cape Cod Community College.

**Career Outlooks**

Click here for O*NET Online Occupation information.

*All children* means *all children with developmental delays or disabilities, children who are gifted and talented, children whose families are culturally and linguistically diverse, children from diverse socioeconomic groups, and other children with individual learning styles, strengths, and needs*.

* National Association for the Education of Young Children

* Currently employed early childhood education and care personnel should contact the coordinator of the Early Childhood Education program to discuss alternate options to meeting this requirement.

Please refer to the policy statement of Criminal Offender Record Information and Sex Offender Registry Information checks.
Environmental Technology Certificate
Coastal Zone Management

The Environmental Technology certificates are a collaborative partnership among Cape Cod Community College, Massachusetts Maritime Academy and University of Massachusetts - Dartmouth, for persons seeking to acquire skills and knowledge in eight environmental fields: Coastal Zone Management, Environmental Site Assessment, Geographic Information Systems, Photovoltaic Technology, Small Wind Technology, Solar Thermal Technology, Wastewater Management, and Water Supply. Students may need to travel to each of the three schools in order to complete all the courses in any certificate program. Students are encouraged to enroll in ENV260 Cooperative Work Experience/Internship.

<table>
<thead>
<tr>
<th>Course #</th>
<th>Course Title</th>
<th>Credits</th>
<th>Prerequisites</th>
<th>Semester Offered</th>
<th>Semester Taken</th>
<th>Grade Earned</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENV118</td>
<td>Intro. to Environmental Science</td>
<td>4</td>
<td>MAT020, ENL020 &amp; ENL050 or satisfactory basic skills assessment scores</td>
<td>Fall, Spring, Summer</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ENV125</td>
<td>Coastal Ecology</td>
<td>3</td>
<td>None</td>
<td>Fall, Spring, Summer</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ENV126</td>
<td>Coastal and Shelf Oceanography</td>
<td>3</td>
<td>MAT020 or satisfactory basic skills assessment score &amp; ENV118 &amp; ENV125</td>
<td>Spring</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ENV135</td>
<td>Coastal Zone Management Laws and Regulations</td>
<td>3</td>
<td>ENV118 &amp; ENV125</td>
<td>Spring</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ENV260</td>
<td>Internship (recommended)</td>
<td>3</td>
<td>ENV118 or ENV170 &amp; permission of instructor</td>
<td>Fall, Spring, Summer</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Total Credits</td>
<td></td>
<td>13/16</td>
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</tr>
</tbody>
</table>

Overview
This certificate is designed to provide students with up-to-date knowledge of the principles and practices of coastal zone management. Students study coastal ecological systems and the impact man has on these systems, physical oceanography and coastal structures and their relationship to coastal resources. Laws and regulations covering the coastal zone are presented and related to the policies of government.

Career Outlook
Completion of the Coastal Zone Management certificate prepares a student to obtain a position as a technician. The Department of Labor predicts that job opportunities are expected to increase 9 to 17 percent for all environmental technician occupations through the year 2014. In coastal areas, students may obtain positions that require knowledge of Federal, state and local laws and regulations, as well as soil and species identification. These technicians assist governmental, municipal, and non-profit coastal managers in the preservation and remediation at coastal and recreational areas.

Program Outcomes
Upon completion of the Coastal Zone Management Certificate, students are able to:
- Work with public and private natural resource/conservation agencies, and environmental consulting companies.
- Conduct field examinations of various coastal ecosystems and understand the application of science in coastal zone management.
- Understand the laws and regulations and their relationship to policy making at the local, state, and federal level.

This certificate is appropriate for students with advanced degrees that are looking for specific technical training.
Environmental Technology Certificate

Environmental Site Assessment

The Environmental Technology certificates are a collaborative partnership among Cape Cod Community College, Massachusetts Maritime Academy and University of Massachusetts - Dartmouth, for persons seeking to acquire skills and knowledge in eight environmental fields: Coastal Zone Management, Environmental Site Assessment, Geographic Information Systems, Photovoltaic Technology, Small Wind Technology, Solar Thermal Technology, Wastewater Management, and Water Supply. Students may need to travel to each of the three schools in order to complete all the courses in any certificate program. Students are encouraged to enroll in ENV260 Cooperative Work Experience/Internship.

<table>
<thead>
<tr>
<th>Course #</th>
<th>Course Title</th>
<th>Credits</th>
<th>Prerequisites</th>
<th>Semester Offered</th>
<th>Semester Taken</th>
<th>Grade Earned</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENV118</td>
<td>Intro. to Environmental Science</td>
<td>4</td>
<td>MAT020, ENL020 &amp; ENL050 or satisfactory basic skills assessment scores</td>
<td>Fall, Spring, Summer</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ESC101</td>
<td>Intro. to Earth Science</td>
<td>4</td>
<td>MAT030, ENL020, ENL050 or satisfactory basic skills assessment scores</td>
<td>Fall, Spring</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ENV122</td>
<td>Process of Environmental Management and Decision Making</td>
<td>3</td>
<td>None</td>
<td>Fall, Spring</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ENV158</td>
<td>Occupational Health and Safety through Hazardous Waste Management</td>
<td>3</td>
<td>None</td>
<td>Spring</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ENV260</td>
<td>Internship (recommended)</td>
<td>3</td>
<td>ENV118 or ENV170 &amp; permission of instructor</td>
<td>Fall, Spring, Summer</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Total Credits</td>
<td></td>
<td>14/17</td>
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</tr>
</tbody>
</table>

Overview
This certificate provides an understanding of the scope of environmental site assessment, the tools and techniques used to gather the field data and conduct the evaluation. Students study the interrelationship among various systems that exist on any site and apply these concepts in the evaluation of a site before and after an event has occurred. The regulatory overview focuses on federal, state and local laws governing environmental protection of sites including wetlands, wildlife and hazardous materials sites.

Career Outlook
Completion of the Environmental Site Assessment Certificate prepares a student to obtain a position as a hazardous materials removal worker or as a technician assisting a licensed site professional in development of land use planning and remediation. The Department of Labor predicts that job opportunities are expected to be excellent in this field.

Experienced workers will have especially favorable opportunities, particularly in the private sector, as more State and local government’s contract out hazardous materials removal work to private companies. Employment in this field is expected to increase 27 percent or more for all occupations through the year 2014, reflecting increasing concern for a safe and clean environment.

This certificate is appropriate for students with advanced degrees that are looking for specific technical training.

Program Outcomes
Upon completion of the Environmental Site Assessment Certificate, students are able to:
- Use the latest equipment and techniques to collect field samples and analyze data.
- Become familiar with the mapping of environmental parameters on a GIS system.
- Demonstrate knowledge of the laws governing site assessment.
- Be prepared to begin an apprenticeship assisting a Licensed Site Professional.
- Be certified in 40-hour OSHA for hazardous waste.
Environmental Technology Certificate
Geographic Information Systems

The Environmental Technology certificates are a collaborative partnership among Cape Cod Community College, Massachusetts Maritime Academy and University of Massachusetts - Dartmouth, for persons seeking to acquire skills and knowledge in eight environmental fields: Coastal Zone Management, Environmental Site Assessment, Geographic Information Systems, Photovoltaic Technology, Small Wind Technology, Solar Thermal Technology, Wastewater Management, and Water Supply. Students may need to travel to each of the three schools in order to complete all the courses in any certificate program. Students are encouraged to enroll in ENV260 Cooperative Work Experience/Internship.

<table>
<thead>
<tr>
<th>Course #</th>
<th>Course Title</th>
<th>Credits</th>
<th>Prerequisites</th>
<th>Semester Offered</th>
<th>Semester Taken</th>
<th>Grade Earned</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENV118</td>
<td>Intro. to Environmental Science</td>
<td>4</td>
<td>MAT020, ENL020 &amp; ENL050 or satisfactory basic skills assessment scores</td>
<td>Fall, Spring, Summer</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ENV160</td>
<td>Introductory Concepts in GIS</td>
<td>3</td>
<td>None</td>
<td>Spring, Summer</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ENV163</td>
<td>Geographic Information Systems I</td>
<td>3</td>
<td>ENV118 &amp; ENV160</td>
<td>Fall</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ENV164</td>
<td>Geographic Information Systems II</td>
<td>3</td>
<td>ENV118 &amp; ENV160 &amp; ENV163</td>
<td>Spring</td>
<td></td>
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</tr>
<tr>
<td>ENV260</td>
<td>Internship (recommended)</td>
<td>3</td>
<td>ENV118 or ENV170 &amp; permission of instructor</td>
<td>Fall, Spring, Summer</td>
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</tr>
<tr>
<td>Total Credits</td>
<td></td>
<td>13/16</td>
<td></td>
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</tr>
</tbody>
</table>

Overview
GIS is a computer database management system which combines computer graphics, artificial intelligence, and high speed communication to store, retrieve, manipulate, analyze, and map geographic data. The technology is used to process complex geographic and environmental data for informed decision making by government, municipal and private industry regarding complex urban and environmental problems. The certificate introduces the student to concepts in geography, cartography and database management, and the analysis of systems and processes using GIS.

Career Outlook
Completion of the GIS certificate prepares a student to obtain a position as a GIS technician. The Department of Labor predicts that job opportunities in this field are expected to increase 9 to 17 percent for all occupations through the year 2014. The widespread availability and use of advanced technologies, such as GPS, GIS, and remote sensing continues to increase both the accuracy and productivity of these workers. Opportunities for technicians should be available in basic GIS-related data-entry work.

Program Outcomes
Upon completion of the Geographic Information Systems Certificate, students are able to:
- Describe the concepts of geography, cartography and database management, map spatial attributes, and analyze systems and processes using GIS.
- Be prepared to work with environmental consulting companies, facilities management offices, and county, municipal, and town departments, such as a town planning department.

This certificate is appropriate for students with advanced degrees that are looking for specific technical training.
Environmental Technology Certificate
Photovoltaic Technology

The Environmental Technology certificates are a collaborative partnership among Cape Cod Community College, Massachusetts Maritime Academy and University of Massachusetts - Dartmouth, for persons seeking to acquire skills and knowledge in eight environmental fields: Coastal Zone Management, Environmental Site Assessment, Geographic Information Systems, Photovoltaic Technology, Small Wind Technology, Solar Thermal Technology, Wastewater Management, and Water Supply. Students may need to travel to each of the three schools in order to complete all the courses in any certificate program. Students are encouraged to enroll in ENV260 Cooperative Work Experience/Internship.

<table>
<thead>
<tr>
<th>Course #</th>
<th>Course Title</th>
<th>Credits</th>
<th>Prerequisites</th>
<th>Semester Offered</th>
<th>Semester Taken</th>
<th>Grade Earned</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENV170</td>
<td>Renewable Energy Sources</td>
<td>3</td>
<td>MAT020, ENL020 &amp; ENL050 or satisfactory basic skills assessment scores</td>
<td>Fall, Spring, Summer</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ENV171</td>
<td>Energy Efficiency and Conservation Methods</td>
<td>3</td>
<td>MAT020, ENL020 &amp; ENL050 or satisfactory basic skills assessment scores</td>
<td>Fall</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ENV173</td>
<td>Introduction to Solar Energy</td>
<td>3</td>
<td>MAT020, ENL020 &amp; ENL050 or satisfactory basic skills assessment scores</td>
<td>Spring</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ENV178</td>
<td>Photovoltaic Installation</td>
<td>3</td>
<td>ENV173</td>
<td>Varies</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ENV260</td>
<td>Internship (recommended)</td>
<td>3</td>
<td>ENV118 or ENV170 &amp; permission of instructor</td>
<td>Fall, Spring, Summer</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Total Credits</td>
<td></td>
<td>12/15</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Overview
This certificate provides a solid understanding of photovoltaic technology, site analysis, system design, and installation methods. Students completing ENV173 and ENV178 are qualified to take the North American Board of Certified Energy Practitioners Entry Level Photovoltaic Certificate of Knowledge Exam. This certificate may appeal to anyone interested in learning more about solar energy and applying that knowledge to their home, business, or career.

Career Outlook
The “clean energy cluster” is a large and fast growing segment of the Massachusetts economy. Solar energy represents a significant portion of the cluster and its projected growth. A person with this certificate has basic knowledge of photovoltaic systems, suitable for a supervised, entry-level position with a dealer/installer, or other PV industry company or organization. Professionals in building trades can gain the knowledge necessary to expand their services to include photovoltaic system design, consulting, specification, and installation. A wide range of additional career opportunities are available within the clean energy cluster for students with degrees in a variety of fields, such as science, engineering, business, law, political science, and communication.

Program Outcomes
Upon completion of the Photovoltaic Technology Certificate, students are able to:
- Conduct a basic home energy audit and make energy efficiency and conservation recommendations.
- Conduct a solar energy site assessment and quantify the amount of solar energy available at a particular site.
- Properly site, size, and design a residential scale photovoltaic system for both on and off grid applications.
- Accurately explain the benefits and limitations of photovoltaic systems.
- Conduct an economic and environmental assessment of proposed photovoltaic systems.
Environmental Technology Certificate
Small Wind Technology

The Environmental Technology certificates are a collaborative partnership among Cape Cod Community College, Massachusetts Maritime Academy and University of Massachusetts - Dartmouth, for persons seeking to acquire skills and knowledge in eight environmental fields: Coastal Zone Management, Environmental Site Assessment, Geographic Information Systems, Photovoltaic Technology, Small Wind Technology, Solar Thermal Technology, Wastewater Management, and Water Supply. Students may need to travel to each of the three schools in order to complete all the courses in any certificate program. Students are encouraged to enroll in ENV260 Cooperative Work Experience/Internship.

<table>
<thead>
<tr>
<th>Course #</th>
<th>Course Title</th>
<th>Credits</th>
<th>Prerequisites</th>
<th>Semester Offered</th>
<th>Semester Taken</th>
<th>Grade Earned</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENV170</td>
<td>Renewable Energy Sources</td>
<td>3</td>
<td>MAT020, ENL020 &amp; ENL050 or satisfactory basic skills assessment scores</td>
<td>Fall, Spring, Summer</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ENV171</td>
<td>Energy Efficiency and Conservation Methods</td>
<td>3</td>
<td>MAT020, ENL020 &amp; ENL050 or satisfactory basic skills assessment scores</td>
<td>Fall</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ENV177</td>
<td>Introduction to Wind Energy</td>
<td>3</td>
<td>MAT020, ENL020 &amp; ENL050 or satisfactory basic skills assessment scores</td>
<td>Spring</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ENV180</td>
<td>Small Wind Installation</td>
<td>3</td>
<td>ENV177</td>
<td>Varies</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ENV260</td>
<td>Internship (recommended)</td>
<td>3</td>
<td>ENV118 or ENV170 &amp; permission of instructor</td>
<td>Fall, Spring, Summer</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Total Credits</td>
<td></td>
<td>12/15</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Overview
This certificate provides a solid understanding of small wind technology, site analysis, system design, and installation methods. This certificate appeals to anyone interested in learning more about wind energy and applying that knowledge to their home, business, or career.

Career Outlook
The “clean energy cluster” is a large and fast growing segment of the Massachusetts economy. A person with this certificate has basic knowledge of small wind-electric systems, suitable for a supervised, entry-level position with a dealer/installer, or other small wind industry company or organization. Professionals in building trades can gain the knowledge necessary to expand their services to include small wind system design, consulting, specification, and installation. A wide range of additional career opportunities are available within the clean energy cluster for students with degrees in a variety of fields, such as science, engineering, business, law, political science, and communication.

Program Outcomes
Upon completion of the Small Wind Technology Certificate, students are able to:
- Conduct a basic home energy audit and make energy efficiency and conservation recommendations.
- Conduct a wind energy site assessment and quantify the amount of wind energy available at a particular site.
- Properly site, size, and design a residential scale small wind system for both on and off grid applications.
- Accurately explain the benefits and limitations of wind-electric systems.
- Conduct an economic and environmental assessment of proposed small wind systems.
Environmental Technology Certificate
Solar Thermal Technology

The Environmental Technology certificates are a collaborative partnership among Cape Cod Community College, Massachusetts Maritime Academy and University of Massachusetts - Dartmouth, for persons seeking to acquire skills and knowledge in eight environmental fields: Coastal Zone Management, Environmental Site Assessment, Geographic Information Systems, Photovoltaic Technology, Small Wind Technology, Solar Thermal Technology, Wastewater Management, and Water Supply. Students may need to travel to each of the three schools in order to complete all the courses in any certificate program. Students are encouraged to enroll in ENV260 Cooperative Work Experience/Internship.

<table>
<thead>
<tr>
<th>Course #</th>
<th>Course Title</th>
<th>Credits</th>
<th>Prerequisites</th>
<th>Semester Offered</th>
<th>Semester Taken</th>
<th>Grade Earned</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENV170</td>
<td>Renewable Energy Sources</td>
<td>3</td>
<td>MAT020, ENL020 &amp; ENL050 or satisfactory basic skills assessment scores</td>
<td>Fall, Spring, Summer</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ENV171</td>
<td>Energy Efficiency and Conservation Methods</td>
<td>3</td>
<td>MAT020, ENL020 &amp; ENL050 or satisfactory basic skills assessment scores</td>
<td>Fall</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ENV173</td>
<td>Introduction to Solar Energy</td>
<td>3</td>
<td>MAT020, ENL020 &amp; ENL050 or satisfactory basic skills assessment scores</td>
<td>Spring</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ENV179</td>
<td>Solar Thermal Installation</td>
<td>3</td>
<td>ENV173</td>
<td>Varies</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ENV260</td>
<td>Internship (recommended)</td>
<td>3</td>
<td>ENV118 or ENV170 &amp; permission of instructor</td>
<td>Fall, Spring, Summer</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Total Credits</td>
<td></td>
<td>12/15</td>
<td></td>
<td></td>
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</tr>
</tbody>
</table>

Overview
This certificate provides a solid understanding of solar hot water technology, site analysis, system design, and installation methods. Courses in this certificate count towards training requirements for the North American Board of Certified Energy Practitioners Solar Thermal Installer Certification. This certificate may appeal to anyone interested in learning more about solar energy and applying that knowledge to their home, business, or career.

Career Outlook
The “clean energy cluster” is a large and fast growing segment of the Massachusetts economy. Solar energy represents a significant portion of the cluster and its projected growth. A person with this certificate has basic knowledge of solar thermal systems, suitable for a supervised, entry-level position with a dealer/installer, or other solar industry company or organization. Professionals in building trades can gain the knowledge necessary to expand their services to include solar thermal system design, consulting, specification, and installation. A wide range of additional career opportunities are available within the clean energy cluster for students with degrees in a variety of fields, such as science, engineering, business, law, political science, and communication.

Program Outcomes
Upon completion of the Solar Thermal Technology Certificate, students are able to:
- Conduct a basic home energy audit and make energy efficiency and conservation recommendations.
- Conduct a solar energy site assessment and quantify the amount of solar energy available at a particular site.
- Properly site, size, and design a residential scale solar hot water system for both domestic hot water and pool heating applications.
- Accurately explain the benefits and limitations of solar hot water systems.
- Conduct an economic and environmental assessment of proposed solar hot water systems.
Environmental Technology Certificate
Wastewater Management

The Environmental Technology certificates are a collaborative partnership among Cape Cod Community College, Massachusetts Maritime Academy and University of Massachusetts - Dartmouth, for persons seeking to acquire skills and knowledge in eight environmental fields: Coastal Zone Management, Environmental Site Assessment, Geographic Information Systems, Photovoltaic Technology, Small Wind Technology, Solar Thermal Technology, Wastewater Management, and Water Supply. Students may need to travel to each of the three schools in order to complete all the courses in any certificate program. Students are encouraged to enroll in ENV260 Cooperative Work Experience/Internship.

<table>
<thead>
<tr>
<th>Course #</th>
<th>Course Title</th>
<th>Credits</th>
<th>Prerequisites</th>
<th>Semester Offered</th>
<th>Semester Taken</th>
<th>Grade Earned</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENV118</td>
<td>Intro to Environmental Science</td>
<td>4</td>
<td>MAT020, ENL020 &amp; ENL050 or satisfactory basic skills assessment scores</td>
<td>Fall, Spring, Summer</td>
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<td></td>
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<tr>
<td>ENV140</td>
<td>Into to Water: Concepts &amp; Technologies</td>
<td>3</td>
<td>None</td>
<td>Fall</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ENV158</td>
<td>Occupational Health &amp; Safety through Hazardous Waste Management</td>
<td>3</td>
<td>None</td>
<td>Spring</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ENV145</td>
<td>Wastewater Treatment Plant Operation</td>
<td>4</td>
<td>ENV118 &amp; ENV140</td>
<td>Varies</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ENV260</td>
<td>Internship (recommended)</td>
<td>3</td>
<td>ENV118 or ENV170 &amp; permission of instructor</td>
<td>Fall, Spring, Summer</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Total</td>
<td></td>
<td>14/17</td>
<td></td>
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</tbody>
</table>

Overview
This certificate provides training for students in wastewater collection and treatment systems. Wastewater chemistry, toxicology and microbiology are covered teaching students the basic processes and common parameters used to measure wastewater at the various stages of treatment. The courses cover the mechanical operation of the systems, an introduction to computer data gathering and process control, and the laws and regulations covering wastewater.

Career Outlook
Completion of the Wastewater Management Certificate prepares a student to obtain a state wastewater license and secure a position at a municipal wastewater treatment plant, a small package plant, or an on-site system. The Department of Labor predicts that the Department of Labor predicts that employment of wastewater treatment plant and system operators is expected to increase 9 to 17 percent for all occupations through the year 2014.

Local governments are the largest employers of wastewater treatment plant and system operators. However, Federal certification requirements have increased utilities' reliance on private firms specializing in the operation and management of wastewater treatment facilities. As a result, employment in privately owned facilities will grow faster than the average.

This certificate is appropriate for students with advanced degrees that are looking for specific technical training.

Program Outcomes:
Upon completion of the Wastewater Management Certificate, students are able to:
- Describe the concepts and have the ability to operate, maintain and/or manage many of the waste streams that currently exist.
- Sit for state operator's municipal and/or industrial wastewater treatment licenses.
Environmental Technology Certificate
Water Supply

The Environmental Technology certificates are a collaborative partnership among Cape Cod Community College, Massachusetts Maritime Academy and University of Massachusetts - Dartmouth, for persons seeking to acquire skills and knowledge in eight environmental fields: Coastal Zone Management, Environmental Site Assessment, Geographic Information Systems, Photovoltaic Technology, Small Wind Technology, Solar Thermal Technology, Wastewater Management, and Water Supply. Students may need to travel to each of the three schools in order to complete all the courses in any certificate program. Students are encouraged to enroll in ENV260 Cooperative Work Experience/Internship.

<table>
<thead>
<tr>
<th>Course #</th>
<th>Course Title</th>
<th>Credits</th>
<th>Prerequisites</th>
<th>Semester Offered</th>
<th>Semester Taken</th>
<th>Grade Earned</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENV118</td>
<td>Intro to Environmental Science</td>
<td>4</td>
<td>MAT020, ENL020 &amp; ENL050 or satisfactory basic skills assessment scores</td>
<td>Fall, Spring, Summer</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ENV140</td>
<td>Into to Water: Concepts &amp; Technologies</td>
<td>3</td>
<td>None</td>
<td>Fall</td>
<td></td>
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</tr>
<tr>
<td>ENV146</td>
<td>Water Supply</td>
<td>3</td>
<td>ENV118 &amp; ENV140</td>
<td>Spring</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ENV158</td>
<td>Occupational Health &amp; Safety through Hazardous Waste Management</td>
<td>3</td>
<td>None</td>
<td>Spring</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ENV260</td>
<td>Internship (recommended)</td>
<td>3</td>
<td>ENV118 or ENV170 &amp; permission of instructor</td>
<td>Fall, Spring, Summer</td>
<td></td>
<td></td>
</tr>
<tr>
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<td></td>
<td>14/17</td>
<td></td>
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</tbody>
</table>

Overview
This certificate provides students with up-to-date knowledge of the physical and chemical principles of drinking water supply and the basic framework for the practical application of science and mathematics to assess and solve water supply problems. They will understand the functioning of related equipment and support systems and the responsibilities required in safely operating and maintaining a water supply system. Students learn the significance of the laws and regulations covering water supply.

Career Outlook
Completion of the Water Supply Certificate prepares a student to obtain a position at a municipal drinking water treatment facility or to conduct drinking water testing by a Board of Health. The Department of Labor predicts that employment of water supply workers and system operators is expected to increase 9 to 17 percent for all occupations through the year 2014.

Local governments are the largest employers of water supply facilities and system operators. However, Federal certification requirements have increased utilities’ reliance on private firms specializing in the operation and management of water treatment facilities. As a result, employment in privately owned facilities will grow faster than the average.

This certificate is appropriate for students with advanced degrees that are looking for specific technical training.

Program Outcomes
Upon completion of the Water Supply Certificate, students are able to:
- Describe the concepts of water supply systems and have the knowledge and ability to operate, maintain and/or manage a drinking water supply facility.
- Be prepared to sit for state operator's drinking water license.
## Fire Officer Development Certificate

### Course Information

<table>
<thead>
<tr>
<th>Course #</th>
<th>Course Title</th>
<th>Credits</th>
<th>Prerequisites</th>
<th>Semester Offered</th>
<th>Semester Taken</th>
<th>Grade Earned</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENL101</td>
<td>English Composition I</td>
<td>3</td>
<td>Appropriate scores in Reading Comprehension &amp; in Sentence Skills on the CPT or a grade of C or better in ENL020 &amp; ENL050 or ESL201</td>
<td>Fall, Spring, Summer</td>
<td></td>
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</tr>
<tr>
<td>FSC101</td>
<td>Fundamentals of Fire Prevention</td>
<td>3</td>
<td>FSC100*</td>
<td>Fall, Spring</td>
<td></td>
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</tr>
<tr>
<td>FSC102</td>
<td>Fire Protection Systems and Equipment</td>
<td>3</td>
<td>None</td>
<td>Varies</td>
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</tr>
<tr>
<td>FSC103</td>
<td>Fire Fighting Tactics and Strategy</td>
<td>3</td>
<td>FSC100</td>
<td>Varies</td>
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<tr>
<td>FSC104</td>
<td>Building Construction for the Fire Service</td>
<td>3</td>
<td>FSC100</td>
<td>Varies</td>
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<tr>
<td>FSC110</td>
<td>Fire Codes and Ordinances</td>
<td>3</td>
<td>None</td>
<td>Varies</td>
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<tr>
<td>FSC120</td>
<td>Introduction to Incident Management</td>
<td>3</td>
<td>ENL020 &amp; ENL050 or satisfactory basic skills assessment score</td>
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<tr>
<td>FSC114</td>
<td>Fire Company Management</td>
<td>3</td>
<td>FSC100</td>
<td>Varies</td>
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<td>24</td>
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</tbody>
</table>

### Overview

This certificate offers the basic skills required for an individual to successfully manage and lead firefighters in daily and emergency operations at a fire company level. This program provides exposure to materials used in promotional examinations.

### Career Outlook

This certificate offers instruction for firefighters who wish to upgrade their career status and for students who wish to transfer to an upper-level college or university.

### Program Outcomes

Upon completion of the Fire Officer Development Certificate, students are able to:

- Function in a leadership capacity in fire and related public safety incidents.
- Evaluate fire protection equipment for operability and compliance with safety standards.
- Recognize the effect of combustion products on types of construction and impact on safety.
- Perform basic fire prevention activities with code enforcement
- Perform management responsibilities of a first line supervisor in the fire service.

* Currently employed fire protection personnel should contact the coordinator of the Fire Science program to discuss alternate options to meeting this requirement.
## Graphic Design Certificate

<table>
<thead>
<tr>
<th>Course #</th>
<th>Course Title</th>
<th>Credits</th>
<th>Prerequisites</th>
<th>Semester Offered</th>
<th>Semester Taken</th>
<th>Grade Earned</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENL101</td>
<td>English Composition I</td>
<td>3</td>
<td>Appropriate scores in Reading Comprehension &amp; in Sentence Skills on the CPT or a grade of C or better in ENL020 &amp; ENL050 or ESL201</td>
<td>Fall, Spring, Summer</td>
<td></td>
<td></td>
</tr>
<tr>
<td>GIT102</td>
<td>Computer Keyboarding or 30wpm</td>
<td>1</td>
<td>None</td>
<td>Fall, Spring</td>
<td></td>
<td></td>
</tr>
<tr>
<td>GIT110</td>
<td>Microcomputer Applications Software</td>
<td>3</td>
<td>GIT102 or equivalent, ENL020 &amp; ENL050 or satisfactory basic skills assessment score</td>
<td>Fall, Spring, Summer</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ART130</td>
<td>You Can Design!</td>
<td>1</td>
<td>ENL010 &amp; ENL040 or satisfactory basic skills assessment score</td>
<td>Fall, Spring, Summer</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ART205</td>
<td>Illustration I</td>
<td>3</td>
<td>ENL010 &amp; ENL040 or satisfactory basic skills assessment score &amp; some computer experience required; ART130 recommended</td>
<td>Fall, Spring</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ART207</td>
<td>Graphic Design I</td>
<td>3</td>
<td>ART214 or ART205 or ART210; ART130 &amp; ART137 recommended</td>
<td>Fall, Spring</td>
<td></td>
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<tr>
<td>ART210</td>
<td>Graphic Production &amp; Layout I</td>
<td>3</td>
<td>GIT110; ART130 recommended</td>
<td>Fall, Spring</td>
<td></td>
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<tr>
<td>ART214</td>
<td>Digital Imaging I</td>
<td>3</td>
<td>ENL010 &amp; ENL040 or satisfactory basic skills assessment score &amp; some computer experience required; ART130 recommended</td>
<td>Fall, Spring</td>
<td></td>
<td></td>
</tr>
<tr>
<td>GIT183</td>
<td>Web Site Design &amp; Scripting</td>
<td>3</td>
<td>GIT110</td>
<td>Fall, Spring</td>
<td></td>
<td></td>
</tr>
<tr>
<td>GIT184</td>
<td>Web Authoring &amp; Graphic Tools</td>
<td>3</td>
<td>GIT110</td>
<td>Fall, Spring</td>
<td></td>
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<tr>
<td>BIT220</td>
<td>Internet Multimedia Development</td>
<td>3</td>
<td>GIT183 &amp; GIT184</td>
<td>Spring</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Overview

Students in the Graphic Design certificate develop foundation skills for understanding the language of design. This language is applied through learning to use the latest, industry standard graphic and web design software.

### Career Outlook

[Click here for O*NET Online Occupation information.](#)

### Program Outcomes

Upon completion of the Graphic Design Certificate, students are able to:

- Demonstrate the application of visual language through proficient use of basic design and production skills.
- Demonstrate proficiency in basic computer operation and page layout software applications.
- Demonstrate proficiency in drawing and image software applications.
- Use the Internet and integrate Internet text and images in design media.
- Prepare designs for print and/or web production.
- Create and evaluate visual form in response to solving communication problems, including basic understanding and application of design elements, composition, typography, hierarchy, organization and the creation of meaningful images.
# Homeland Security Certificate

<table>
<thead>
<tr>
<th>Course #</th>
<th>Course Title</th>
<th>Credits</th>
<th>Prerequisites</th>
<th>Semester Offered</th>
<th>Semester Taken</th>
<th>Grade Earned</th>
</tr>
</thead>
<tbody>
<tr>
<td>HSC101</td>
<td>Introduction to Security</td>
<td>3</td>
<td>ENL050 or satisfactory basic skills assessment score</td>
<td>Fall</td>
<td></td>
<td></td>
</tr>
<tr>
<td>HSC102</td>
<td>Maritime Security</td>
<td>3</td>
<td>ENL050 or satisfactory basic skills assessment score; Co-requisite: HSC101</td>
<td>Fall</td>
<td></td>
<td></td>
</tr>
<tr>
<td>HSC103</td>
<td>Management of Incidents</td>
<td>3</td>
<td>HSC101</td>
<td>Spring</td>
<td></td>
<td></td>
</tr>
<tr>
<td>HSC104</td>
<td>Cybercrime</td>
<td>3</td>
<td>HSC101 or BIT187</td>
<td>Spring</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CRJ135</td>
<td>Terrorism</td>
<td>3</td>
<td>ENL050 or satisfactory basic skills assessment score</td>
<td>Spring, Summer</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Total</td>
<td>Total Credits</td>
<td>15</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

## Overview

The certificate is designed to provide students an introduction to the growing field of homeland security. It is designed for people working in the areas of public safety, security management and law enforcement. Criminal justice students interested in enhancing their future career prospects may also benefit from this program by broadening their studies to encompass security within private industry.

## Career Outlook

[Click here for O*NET online occupation information.](#)

## Program Outcomes

Upon successful completion of the Homeland Security Certificate, students are able to:

- Identify effective interpersonal communication, critical thinking, and decision-making skills.
- Describe ethical principles in decision-making situations.
- Demonstrate knowledge of diverse areas, cultures and experiences and the ability to examine their own attitudes and assumptions in order to engage others with civility and empathy.
- Recognize how to access and disseminate information through multiple agencies in order to forecast the risks, types and orders of magnitude of terrorist threats most likely to confront the nation/state.
- Describe the interdisciplinary nature of homeland security functions and be able to assess and integrate various functional areas.
Horticulture Certificate

Course # | Course Title | Credits | Prerequisites | Semester Offered | Semester Taken | Grade Earned |
--- | --- | --- | --- | --- | --- | --- |
HOR101 | Plant and Soil Science | 4 | MAT020, ENL020 & ENL050 or satisfactory basic skills assessment scores | Fall, Spring | | |
HOR102 | Entomology and Plant Diseases | 3 | None | Fall | | |
HOR103 | Woody Plant Identification and Culture | 3 | None | Fall | | |
HOR104 | Turf Management | 3 | None | Fall | | |
HOR201 | Herbaceous Plant Identification and Culture | 3 | HOR101 | Spring | | |
Horticulture elective * | 3 | | | | |
Elective ** | 3 | | | | |
Elective ** | 3 | | | | |
General Education elective*** | 3 | | | | |
Total Credits | 28 | | | | |

Overview
The Horticulture certificate provides the academic background needed to succeed in a variety of positions within the "green industries." The program is designed to meet the needs of individuals entering the green industry as well as to provide professional development opportunities for individuals employed in the green industries. In addition to the horticulture courses, the program includes business, design, and management courses needed to compete successfully in the green industries.

Career Outlook
Click here for O*NET Online Occupation information.

* Horticulture Electives:
HOR107 Floral Design
HOR105 Equipment Maintenance and Operation
HOR202 Landscape Design and Construction

** Two courses chosen from the following list:
MKT103 Advertising
MKT100 Marketing
BUS100 Introduction to Business
BUS107 Human Resource Management
BUS214 Management
GIT106 Office Accounting
GIT110 Microcomputer Applications Software
(or) additional Horticulture courses or courses that have been approved in advance by both the Horticulture Program Coordinator and the Division Dean.

*** One course from the list of General Education Courses.
Horticulture Certificate
Landscape Construction Technician

Click here for Gainful Employment information pertaining to Landscape Construction.

<table>
<thead>
<tr>
<th>Course #</th>
<th>Course Title</th>
<th>Credits</th>
<th>Prerequisites</th>
<th>Semester Offered</th>
<th>Semester Taken</th>
<th>Grade Earned</th>
</tr>
</thead>
<tbody>
<tr>
<td>HOR101</td>
<td>Plant and Soil Science</td>
<td>4</td>
<td>MAT020, ENL020 &amp; ENL050 or satisfactory basic skills assessment scores</td>
<td>Fall, Spring</td>
<td></td>
<td></td>
</tr>
<tr>
<td>HOR103</td>
<td>Woody Plant Identification and Culture</td>
<td>3</td>
<td>None</td>
<td>Fall</td>
<td></td>
<td></td>
</tr>
<tr>
<td>HOR105</td>
<td>Equipment Maintenance and Operation</td>
<td>3</td>
<td>None</td>
<td>Varies</td>
<td></td>
<td></td>
</tr>
<tr>
<td>HOR106</td>
<td>Horticulture Practicum</td>
<td>1</td>
<td>Enrollment in a Horticulture certificate program</td>
<td>Fall, Spring, Summer</td>
<td></td>
<td></td>
</tr>
<tr>
<td>HOR202</td>
<td>Landscape Design &amp; Construction</td>
<td>3</td>
<td>HOR103</td>
<td>Spring</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Horticulture Elective*</td>
<td>3</td>
<td></td>
<td></td>
<td></td>
<td></td>
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<tr>
<td></td>
<td>Total Credits</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>17</td>
</tr>
</tbody>
</table>

**Overview**
The Horticulture Landscape Construction Technician certificate is intended for individuals who are interested in landscape design and construction. All aspects of landscape site analysis and installation, equipment maintenance and operation, as well as selecting and planting appropriate landscape plants are reviewed.

**Career Outlook**
Click here for O*NET Online Occupation information.

* Horticulture Electives
  - HOR107  Floral Design
  - HOR105  Equipment Maintenance and Operation
  - HOR202  Landscape Design and Construction
Horticulture Certificate
Landscape Maintenance Technician

Click here for Gainful Employment information pertaining to Landscape Maintenance.

<table>
<thead>
<tr>
<th>Course #</th>
<th>Course Title</th>
<th>Credits</th>
<th>Prerequisites</th>
<th>Semester Offered</th>
<th>Semester Taken</th>
<th>Grade Earned</th>
</tr>
</thead>
<tbody>
<tr>
<td>HOR101</td>
<td>Plant and Soil Science</td>
<td>4</td>
<td>MAT020, ENL020 &amp; ENL050 or satisfactory basic skills assessment scores</td>
<td>Fall, Spring</td>
<td></td>
<td></td>
</tr>
<tr>
<td>HOR103</td>
<td>Woody Plant Identification and Culture</td>
<td>3</td>
<td>None</td>
<td>Fall</td>
<td></td>
<td></td>
</tr>
<tr>
<td>HOR104</td>
<td>Turf Management</td>
<td>3</td>
<td>None</td>
<td>Fall</td>
<td></td>
<td></td>
</tr>
<tr>
<td>HOR105</td>
<td>Equipment Maintenance and Operation</td>
<td>3</td>
<td>None</td>
<td>Varies</td>
<td></td>
<td></td>
</tr>
<tr>
<td>HOR106</td>
<td>Horticulture Practicum</td>
<td>1</td>
<td>Enrollment in a Horticulture certificate program</td>
<td>Fall, Spring, Summer</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Horticulture Elective*</td>
<td>3</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Total Credits 17

Overview
The Horticulture Landscape Maintenance Technician certificate provides an overview of the technical and cultural information needed to successfully maintain turf and landscape plants and to maintain and operate landscape equipment.

Career Outlook
Click here for O*NET Online Occupation information.

* Horticulture Electives
HOR107 Floral Design
HOR202 Landscape Design and Construction
### Overview
The Horticulture Technician certificate provides an overview of the identification and culture of woody and herbaceous plants as well as landscape design and construction.

### Career Outlook
Click here for O*NET Online Occupation information.

### Course Details

<table>
<thead>
<tr>
<th>Course #</th>
<th>Course Title</th>
<th>Credits</th>
<th>Prerequisites</th>
<th>Semester Offered</th>
<th>Semester Taken</th>
<th>Grade Earned</th>
</tr>
</thead>
<tbody>
<tr>
<td>HOR101</td>
<td>Plant and Soil Science</td>
<td>4</td>
<td>MAT020, ENL020 &amp; ENL050 or satisfactory basic skills assessment scores</td>
<td>Fall, Spring</td>
<td></td>
<td></td>
</tr>
<tr>
<td>HOR103</td>
<td>Woody Plant Identification and Culture</td>
<td>3</td>
<td>None</td>
<td>Fall</td>
<td></td>
<td></td>
</tr>
<tr>
<td>HOR106</td>
<td>Horticulture Practicum</td>
<td>1</td>
<td>Enrollment in a Horticulture certificate program</td>
<td>Fall, Spring, Summer</td>
<td></td>
<td></td>
</tr>
<tr>
<td>HOR201</td>
<td>Herbaceous Plant Identification and Culture</td>
<td>3</td>
<td>HOR101</td>
<td>Spring</td>
<td></td>
<td></td>
</tr>
<tr>
<td>HOR202</td>
<td>Landscape Design and Construction</td>
<td>3</td>
<td>HOR103</td>
<td>Spring</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Horticulture Elective*</td>
<td>3</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Total Credits**: 17

*Horticulture Electives*
- HOR107  Floral Design
- HOR105  Equipment Maintenance and Operation
# Hospitality Certificate

## Culinary Arts

[Click here for Gainful Employment information pertaining to Culinary Arts.]

<table>
<thead>
<tr>
<th>Course #</th>
<th>Course Title</th>
<th>Credits</th>
<th>Prerequisites</th>
<th>Semester Offered</th>
<th>Semester Taken</th>
<th>Grade Earned</th>
</tr>
</thead>
<tbody>
<tr>
<td>COM103</td>
<td>Human Communication</td>
<td>3</td>
<td>ENL010 or ESL102 or satisfactory basic skills assessment score</td>
<td>Fall, Spring, Summer</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CUL150</td>
<td>Fundamentals of Professional Cooking</td>
<td>4</td>
<td>Co-requisite: HRM111</td>
<td>Fall, Spring</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CUL180</td>
<td>Baking I</td>
<td>3</td>
<td>None</td>
<td>Fall, Spring</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CUL210</td>
<td>Dining Room Operations and Service</td>
<td>4</td>
<td>HRM140 or CUL100; Co-requisite: CUL220</td>
<td>Spring</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CUL220</td>
<td>Advanced Culinary Arts</td>
<td>4</td>
<td>HRM140 or HRM150/CUL150</td>
<td>Fall, Spring</td>
<td></td>
<td></td>
</tr>
<tr>
<td>HRM111</td>
<td>Foodservice Sanitation</td>
<td>1</td>
<td>None</td>
<td>Fall</td>
<td></td>
<td></td>
</tr>
<tr>
<td>HRM130</td>
<td>Food and Beverage Management</td>
<td>3</td>
<td>MAT020 or satisfactory basic skills assessment score</td>
<td>Spring</td>
<td></td>
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</tr>
<tr>
<td>HRM140</td>
<td>Introduction to Hospitality Management</td>
<td>3</td>
<td>ENL020 or satisfactory basic skills assessment score</td>
<td>Fall</td>
<td></td>
<td></td>
</tr>
<tr>
<td>HRM262</td>
<td>Hospitality Cooperative Work Experience (or)</td>
<td>3</td>
<td>9 credits in CUL/HRM curriculum (or)</td>
<td>Fall, Spring, Summer</td>
<td></td>
<td></td>
</tr>
<tr>
<td>HRM250</td>
<td>Special Events &amp; Operations Management</td>
<td></td>
<td>CUL100 or HRM140</td>
<td>Spring</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Total Credits: 28

### Overview

Students learn professional culinary fundamentals throughout the Culinary Arts certificate courses ranging from knife skills to baking basics. Students are encouraged to build on this certificate to eventually obtain a degree from the College.

### Career Outlook

[Click here for O*NET Online Occupation information.]

### Program Outcomes

Upon completion of the Culinary Arts certificate, students are able to:

- Prepare and serve food in an attractive, professional manner in a variety of food service environments and to train for and deliver quality guest service.
- Perform technical skills in basic cooking and food service operations.
- Recognize and apply inter-personal skills needed in a food production setting, including team building and group decision making.
- Calculate costs and institute procedures to operate cost effective establishments.
Human Services Certificate

<table>
<thead>
<tr>
<th>Course #</th>
<th>Course Title</th>
<th>Credits</th>
<th>Prerequisites</th>
<th>Semester Offered</th>
<th>Semester Taken</th>
<th>Grade Earned</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSY101</td>
<td>General Psychology</td>
<td>3</td>
<td>ENL020 &amp; ENL050 or satisfactory basic skills assessment score</td>
<td>Fall, Spring, Summer</td>
<td></td>
<td></td>
</tr>
<tr>
<td>HUS101</td>
<td>Introduction to Human Services</td>
<td>3</td>
<td>None</td>
<td>Fall, Spring</td>
<td></td>
<td></td>
</tr>
<tr>
<td>COM103</td>
<td>Human Communication</td>
<td>3</td>
<td>ENL010 or ESL102 or satisfactory basic skills assessment score</td>
<td>Fall, Spring, Summer</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Certificate elective*</td>
<td>3</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>HUS202</td>
<td>Human Services Practicum</td>
<td>3</td>
<td>PSY101 &amp; HUS101. Co-requisite: PSY208</td>
<td>Varies</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ENL101</td>
<td>English Composition I</td>
<td>3</td>
<td>Appropriate scores in Reading Comprehension &amp; in Sentence Skills on the CPT or a grade of C or better in ENL020 &amp; ENL050 or ESL201</td>
<td>Fall, Spring, Summer</td>
<td></td>
<td></td>
</tr>
<tr>
<td>PSY209</td>
<td>Group Dynamics in Human Services</td>
<td>3</td>
<td>PSY101 or SOC106</td>
<td>Fall, Spring</td>
<td></td>
<td></td>
</tr>
<tr>
<td>PSY208</td>
<td>Principles of Counseling &amp; Crisis Intervention</td>
<td>3</td>
<td>PSY101</td>
<td>Fall, Spring</td>
<td></td>
<td></td>
</tr>
<tr>
<td>HUS203</td>
<td>Advanced Human Services Practicum</td>
<td>3</td>
<td>ENL101, HUS202, and PSY209</td>
<td>Varies</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Total Credits</td>
<td>27</td>
<td></td>
<td></td>
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</tbody>
</table>

Overview
The field of Human Services is a broadly defined one, uniquely approaching the objective of meeting needs through an interdisciplinary knowledge base. The primary purpose of Human Services is to assist individuals, groups and communities to function as effectively as possible in the major domains of living. A student who is interested in transferring into a four year undergraduate program in the area of Human Services can complete the certificate program as part of the Human Services Concentration at Cape Cod Community College.

Career Outlook
Click here for O*NET Online Occupation information.

Program Outcomes
Upon completion of the Human Services Certificate, students are able to:

- Understand the nature of human systems: individual, group and community outreach.
- Understand the conditions which promote or limit optimal functioning and classes of deviation from desired functioning.
- Identify and select interventions which promote growth and goal attainment.
- Plan, implement, and evaluate interventions.
- Consistently select interventions which are congruent with the values of one’s self, clients, the employing organization, and the Human Services profession.
- Process skills which are required to plan and implement services.

* Electives
Elective choices are for areas of interest within the Human Services Certificate. Advisors and students must be aware that many of the following electives have prerequisites not included in the total credits for this certificate.

Abnormal Electives
- PSY235 Cognitive Psychology
- SOC205 Juvenile Delinquency
- PSY207 Abnormal Psychology
- PSY225 Social Psychology
- SOC215 Social Problems

Alcohol and Substance Abuse Electives
- HUS104 Intro to Alcohol / Substance Abuse
- HUS106 Treatment Modalities
- HUS102 Mental Health, Substance Abuse & Families

Child & Youth Electives
- PSY201 Child Psychology
- PSY202 Adolescent Psychology
- SOC210 Marriage & Family

Please refer to the policy statement of Criminal Offender Record Information (CORI) and Sex Offender Registry Information (SORI).
Information Technology Certificate
Administration Assistant – General Office Administration

Click here for Gainful Employment information pertaining to Administration Assistant.

<table>
<thead>
<tr>
<th>Course #</th>
<th>Course Title</th>
<th>Credits</th>
<th>Prerequisites</th>
<th>Semester Offered</th>
<th>Semester Taken</th>
<th>Grade Earned</th>
</tr>
</thead>
<tbody>
<tr>
<td>GIT101</td>
<td>Typing I*</td>
<td>3</td>
<td>None</td>
<td>Fall, Spring</td>
<td></td>
<td></td>
</tr>
<tr>
<td>GIT105</td>
<td>Office Communication Systems</td>
<td>3</td>
<td>ENL020 &amp; ENL050 or satisfactory basic skills assessment score</td>
<td>Fall, Spring</td>
<td></td>
<td></td>
</tr>
<tr>
<td>GIT106</td>
<td>Office Accounting (or) Accounting I with Computer Applications</td>
<td>3</td>
<td>MAT020 &amp; ENL020 or satisfactory basic skills assessment scores</td>
<td>Fall, Spring</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ACC111</td>
<td>Office Accounting (or) Accounting I with Computer Applications</td>
<td>3</td>
<td>MAT020 &amp; ENL020 or satisfactory basic skills assessment scores</td>
<td>Fall, Spring</td>
<td></td>
<td></td>
</tr>
<tr>
<td>GIT110</td>
<td>Microcomputer Application Software</td>
<td>3</td>
<td>GIT102 or equivalent, ENL020 &amp; ENL050 or satisfactory basic skills assessment score</td>
<td>Fall, Spring, Summer</td>
<td></td>
<td></td>
</tr>
<tr>
<td>BUS100</td>
<td>Introduction to Business</td>
<td>3</td>
<td>None</td>
<td>Fall, Spring, Summer</td>
<td></td>
<td></td>
</tr>
<tr>
<td>GIT220</td>
<td>Advanced Word Processing Applications</td>
<td>3</td>
<td>GIT120 or GIT110</td>
<td>Spring</td>
<td></td>
<td></td>
</tr>
<tr>
<td>BIT202</td>
<td>Standard Office Procedures</td>
<td>3</td>
<td>GIT110 or GIT120</td>
<td>Spring</td>
<td></td>
<td></td>
</tr>
<tr>
<td>PSY101</td>
<td>General Psychology</td>
<td>3</td>
<td>ENL020 &amp; ENL050 or satisfactory basic skills assessment scores</td>
<td>Fall, Spring, Summer</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Business Elective</td>
<td>3</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>Total Credits</td>
<td>27</td>
<td></td>
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</tr>
</tbody>
</table>

General Office Administration Overview
Students in this option learn to keyboard, write and format business documents; use a variety of information processing tools; administer and organize an automated office; and apply correct office procedures in various situations. Students are encouraged to build on certificate programs and eventually obtain a degree at the College.

Career Outlook
Click here for O*NET Online Occupation information.

Program Outcomes
Upon completion of the Information Technology certificate, students are able to:

- Read, write, discuss and think critically about topics and ideas in information and/or office technology.
- Analyze ethical issues and apply ethical standards in the performance of responsibilities in a variety of information and office technology careers.
- Synthesize information from communications, information technology, office technology, and business to provide customer service and solve business problems.
- Assume entry-level positions in a variety of information and office technology careers.
- Work well with teams in an information or office technology setting.
- Continue education in an associate program.

*If waived, must be replaced with a Business course.
Information Technology Certificate
Administration Assistant – Medical Office Administration
Click here for Gainful Employment information pertaining to Administration Assistant – Medical Office Administration.

<table>
<thead>
<tr>
<th>Course #</th>
<th>Course Title</th>
<th>Credits</th>
<th>Prerequisites</th>
<th>Semester Offered</th>
<th>Semester Taken</th>
<th>Grade Earned</th>
</tr>
</thead>
<tbody>
<tr>
<td>GIT101</td>
<td>Typing I*</td>
<td>3</td>
<td>None</td>
<td>Fall, Spring</td>
<td></td>
<td></td>
</tr>
<tr>
<td>BIT103</td>
<td>Medical Terminology</td>
<td>3</td>
<td>ENL020 &amp; ENL050 or satisfactory basic skills assessment score</td>
<td>Fall, Spring</td>
<td></td>
<td></td>
</tr>
<tr>
<td>GIT105</td>
<td>Office Communication Systems</td>
<td>3</td>
<td>ENL020 &amp; ENL050 or satisfactory basic skills assessment score</td>
<td>Fall, Spring</td>
<td></td>
<td></td>
</tr>
<tr>
<td>GIT110</td>
<td>Microcomputer Applications Software</td>
<td>3</td>
<td>GIT102 or equivalent, ENL020 &amp; ENL050 or satisfactory basic skills assessment score</td>
<td>Fall, Spring, Summer</td>
<td></td>
<td></td>
</tr>
<tr>
<td>GIT220</td>
<td>Advanced Word Processing</td>
<td>3</td>
<td>GIT110 or GIT120</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>GIT106</td>
<td>Office Accounting (or)</td>
<td>3</td>
<td>MAT020 &amp; ENL020 or satisfactory basic skills assessment score</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ACC111</td>
<td>Accounting I with Computer Applications</td>
<td>3</td>
<td>MAT020 &amp; ENL020 or satisfactory basic skills assessment score</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>GIT150</td>
<td>Database Applications</td>
<td>3</td>
<td>GIT120, GIT108 or GIT110 or equivalent skill level in Windows</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>BIT203</td>
<td>Medical Office Procedures</td>
<td>3</td>
<td>GIT120 or GIT110 &amp; BIT103</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>PSY101</td>
<td>General Psychology</td>
<td>3</td>
<td>ENL020 &amp; ENL050 or satisfactory basic skills assessment score</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Total</td>
<td></td>
<td>27</td>
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<td></td>
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</tr>
</tbody>
</table>

Medical Office Administration Overview
Students gain an understanding of medical procedures, medical terminology, and a conceptual and practical understanding of a computerized office environment in a medical setting. Students progress from basic keyboarding and word processing to advanced information processing and office procedures. Students are encouraged to build on certificate programs and eventually obtain a degree at the College.

Career Outlook
Click here for O*NET Online Occupation information.

Program Outcomes
Upon completion of the Information Technology certificate, students are able to:
- Read, write, discuss and think critically about topics and ideas in information and/or office technology.
- Analyze ethical issues and apply ethical standards in the performance of responsibilities in a variety of information and office technology careers.
- Synthesize information from communications, information technology, office technology, and business to provide customer service and solve business problems.
- Assume entry-level positions in a variety of information and office technology careers.
- Work well with teams in an information or office technology setting.
- Continue education in an associate program.

*If waived, must be replaced with a Business course.
## Information Technology Certificate

### Application Specialist

<table>
<thead>
<tr>
<th>Course #</th>
<th>Course Title</th>
<th>Credits</th>
<th>Prerequisites</th>
<th>Semester Offered</th>
<th>Semester Taken</th>
<th>Grade Earned</th>
</tr>
</thead>
<tbody>
<tr>
<td>COM103</td>
<td>Human Communication</td>
<td>3</td>
<td>ENL010 or ESL102 or satisfactory basic skills assessment score</td>
<td>Fall, Spring, Summer</td>
<td></td>
<td></td>
</tr>
<tr>
<td>GIT102</td>
<td>Computer Keyboarding (or) 30 wpm</td>
<td>1</td>
<td>None</td>
<td>Fall, Spring</td>
<td></td>
<td></td>
</tr>
<tr>
<td>GIT105</td>
<td>Office Communication Systems</td>
<td>3</td>
<td>ENL020 &amp; ENL050 or satisfactory basic skills assessment score</td>
<td>Fall, Spring</td>
<td></td>
<td></td>
</tr>
<tr>
<td>GIT110</td>
<td>Microcomputer Applications Software</td>
<td>3</td>
<td>GIT102 or equivalent, ENL020 &amp; ENL050 or satisfactory basic skills assessment score</td>
<td>Fall, Spring, Summer</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ART210</td>
<td>Graphic Production and Layout I</td>
<td>3</td>
<td>GIT110; ART130 recommended</td>
<td>Fall, Spring</td>
<td></td>
<td></td>
</tr>
<tr>
<td>GIT220</td>
<td>Advanced Word Processing Applications</td>
<td>3</td>
<td>GIT120 or GIT110</td>
<td>Spring</td>
<td></td>
<td></td>
</tr>
<tr>
<td>BIT175</td>
<td>Visual Basic Programming</td>
<td>3</td>
<td>MAT030 or satisfactory basic skills assessment score &amp; GIT110</td>
<td>Fall, Spring</td>
<td></td>
<td></td>
</tr>
<tr>
<td>GIT150</td>
<td>Database Applications</td>
<td>3</td>
<td>GIT120, GIT108 or GIT110 or equivalent skill level in Windows</td>
<td>Fall, Spring</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ACC111 (or) ACC201</td>
<td>Accounting I w/ Computer Applications (or) Financial Accounting</td>
<td>3</td>
<td>MAT020 &amp; ENL020 or satisfactory basic skills assessment score (or) (BUS100 or HRM140), GIT110, MAT030 &amp; ENL020 or satisfactory basic skills assessment scores</td>
<td>Fall, Spring, Summer</td>
<td></td>
<td></td>
</tr>
<tr>
<td>GIT125</td>
<td>Spreadsheet Applications for Business</td>
<td>3</td>
<td>GIT110 or GIT120 &amp; (ACC111 or ACC201)</td>
<td>Fall, Spring</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Total Credits</strong></td>
<td><strong>27/28</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Overview

Students develop teamwork skills while mastering advanced and administrative features of business application software including word processing, spreadsheets, relational database, and presentation graphics. Students are prepared to take the Microsoft Office User Specialist exams for several of the Microsoft Office products. Students are encouraged to build on the certificate program and eventually obtain a degree at the College.

### Career Outlook

[Click here for O*NET Online Occupation information](#)
## Information Technology Certificate
### Database Design

<table>
<thead>
<tr>
<th>Course #</th>
<th>Course Title</th>
<th>Credits</th>
<th>Prerequisites</th>
<th>Semester Offered</th>
<th>Semester Taken</th>
<th>Grade Earned</th>
</tr>
</thead>
<tbody>
<tr>
<td>GIT102</td>
<td>Computer Keyboarding (or) 30wpm</td>
<td>1</td>
<td>None</td>
<td>Fall, Spring</td>
<td></td>
<td></td>
</tr>
<tr>
<td>GIT110</td>
<td>Microcomputer Application Software</td>
<td>3</td>
<td>GIT102 or equivalent, ENL020 &amp; ENL050 or satisfactory basic skills assessment score</td>
<td>Fall, Spring, Summer</td>
<td></td>
<td></td>
</tr>
<tr>
<td>BIT175</td>
<td>Visual Basic Programming</td>
<td>3</td>
<td>MAT030 or satisfactory basic skills assessment score &amp; GIT110</td>
<td>Fall, Spring</td>
<td></td>
<td></td>
</tr>
<tr>
<td>GIT150</td>
<td>Database Applications</td>
<td>3</td>
<td>GIT120, GIT108 or GIT110 or equivalent skill level in Windows</td>
<td>Fall, Spring</td>
<td></td>
<td></td>
</tr>
<tr>
<td>BIT250</td>
<td>Database Design &amp; Development</td>
<td>3</td>
<td>GIT150</td>
<td>Fall</td>
<td></td>
<td></td>
</tr>
<tr>
<td>BIT277</td>
<td>Visual Basic for Database Development</td>
<td>3</td>
<td>BIT175 &amp; GIT150</td>
<td>Fall</td>
<td></td>
<td></td>
</tr>
<tr>
<td>BIT253</td>
<td>Advanced Topics in Database with SQL</td>
<td>3</td>
<td>BIT250 &amp; BIT175</td>
<td>Spring</td>
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<td>Total Credits</td>
<td></td>
<td>18/19</td>
<td></td>
<td></td>
<td></td>
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</tr>
</tbody>
</table>

### Overview
Students learn how to design, develop, and implement small to medium-sized databases using current technologies in Database Management Systems (DBMS).

### Career Outlook
[Click here for O*NET Online Occupation Information](#)
## Information Technology Certificate
### Desktop Publishing

[Click here for Gainful Employment information pertaining to Desktop Publishing.]

<table>
<thead>
<tr>
<th>Course #</th>
<th>Course Title</th>
<th>Credits</th>
<th>Prerequisites</th>
<th>Semester Offered</th>
<th>Semester Taken</th>
<th>Grade Earned</th>
</tr>
</thead>
<tbody>
<tr>
<td>GIT102</td>
<td>Computer Keyboarding (or) 30wpm</td>
<td>1</td>
<td>None (or) 30wpm</td>
<td>Fall, Spring</td>
<td></td>
<td></td>
</tr>
<tr>
<td>GIT105</td>
<td>Office Communication Systems</td>
<td>3</td>
<td>ENL020 &amp; ENL050 or satisfactory basic skills assessment score</td>
<td>Fall, Spring</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ENL101</td>
<td>English Composition I</td>
<td>3</td>
<td>Appropriate scores in Reading Comprehension &amp; in Sentence Skills on the CPT or a grade of C or better in ENL020 &amp; ENL050 or ESL201</td>
<td>Fall, Spring, Summer</td>
<td></td>
<td></td>
</tr>
<tr>
<td>GIT110</td>
<td>Microcomputer Application Software</td>
<td>3</td>
<td>GIT102 or equivalent, ENL020 &amp; ENL050 or satisfactory basic skills assessment score</td>
<td>Fall, Spring, Summer</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ART210</td>
<td>Graphic Production and Layout I</td>
<td>3</td>
<td>GIT110; ART130 recommended</td>
<td>Fall, Spring</td>
<td></td>
<td></td>
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<tr>
<td>GIT184</td>
<td>Web Authoring and Graphic Tools</td>
<td>3</td>
<td>GIT110</td>
<td>Fall, Spring</td>
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<tr>
<td>ART207</td>
<td>Graphic Design I</td>
<td>3</td>
<td>ART124 or ART205 or ART210; ART130 &amp; ART137 recommended (or)</td>
<td>Fall, Spring</td>
<td></td>
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<tr>
<td>ART214</td>
<td>(or) Digital Imaging</td>
<td></td>
<td>ENL010 &amp; ENL040 or satisfactory basic skills assessment score &amp; some computer experience; ART130 recommended</td>
<td>Fall, Spring</td>
<td></td>
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</tr>
<tr>
<td>GIT220</td>
<td>Advanced Word Processing Applications</td>
<td>3</td>
<td>GIT120 or GIT110</td>
<td>Spring</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>ART elective*(or) IT elective**</td>
<td></td>
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</tr>
<tr>
<td>ENL161</td>
<td>Journalism I</td>
<td>3</td>
<td>ENL101 (or) ENL101</td>
<td>Fall, Spring</td>
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<tr>
<td>ENL131</td>
<td>Technical Writing</td>
<td></td>
<td></td>
<td>Varies</td>
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</tbody>
</table>

**Total Credits** 27/28

### Overview
Students concentrate on writing, communication, design, layout, and graphic skills using the latest computer technology.

### Career Outlook
[Click here for O*NET Online Occupation information.]
# Information Technology Certificate

## Health Unit Coordinator Certificate

<table>
<thead>
<tr>
<th>Course #</th>
<th>Course Title</th>
<th>Credits</th>
<th>Prerequisites</th>
<th>Semester Offered</th>
<th>Semester Taken</th>
<th>Grade Earned</th>
</tr>
</thead>
<tbody>
<tr>
<td>GIT102</td>
<td>Computer Keyboarding or 30wpm</td>
<td>1</td>
<td>None</td>
<td>Fall, Spring</td>
<td></td>
<td></td>
</tr>
<tr>
<td>GIT105</td>
<td>Office Communication Systems</td>
<td>3</td>
<td>ENL020 &amp; ENL050 or satisfactory basic skills assessment score</td>
<td>Fall, Spring</td>
<td></td>
<td></td>
</tr>
<tr>
<td>GIT110</td>
<td>Microcomputer Applications Software</td>
<td>3</td>
<td>GIT102 or equivalent, ENL020 &amp; ENL050 or satisfactory basic skills assessment score</td>
<td>Fall, Spring, Summer</td>
<td></td>
<td></td>
</tr>
<tr>
<td>BIT103</td>
<td>Medical Terminology</td>
<td>3</td>
<td>ENL020 &amp; ENL050 or satisfactory basic skills assessment score</td>
<td>Fall, Spring, Summer</td>
<td></td>
<td></td>
</tr>
<tr>
<td>HIT100</td>
<td>Health Unit Coordinating</td>
<td>3</td>
<td>MAT020, ENL020 &amp; ENL050 or satisfactory basic skills assessment scores</td>
<td>Varies</td>
<td></td>
<td></td>
</tr>
<tr>
<td>BIT203</td>
<td>Medical Office Procedures</td>
<td>3</td>
<td>GIT120 or GIT110 &amp; BIT103</td>
<td>Spring</td>
<td></td>
<td></td>
</tr>
<tr>
<td>COM103</td>
<td>Human Communication</td>
<td>3</td>
<td>ENL010 or ESL102 or satisfactory basic skills assessment score</td>
<td>Fall, Spring, Summer</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Total Credits</strong></td>
<td></td>
<td><strong>18/19</strong></td>
<td></td>
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</tbody>
</table>

### Overview

This certificate emphasizes the communication and technical skills needed to enter into and advance in a career as a Health Unit Coordinator in a hospital setting. Students are prepared to take the National Association of Health Unit Coordinators’ (NAHUC) certification examination. Students in this certificate program can continue their education and earn an A. S. degree in Information Technology, Administrative Assistant Concentration – Medical Track.

### Career Outlook

The Health Unit Coordinator Certificate prepares students to pass the NAHUC certification examination and work as Health Unit Coordinators in a hospital setting.

Click here for O*NET Online Occupation information.

### Program Outcomes

Upon completion of the Health Unit Coordinator Certificate, students are able to:

- Communicate and interact with an empathetic and professional attitude in a hospital setting.
- Demonstrate competency and accuracy in the skills and procedures involved in the position of Health Unit Coordinator.
- Use and interpret medical terminology pertinent to the practice area.
- Successfully sit for the NAHUC certification examination.
- Continue education in an A. S. program.
# Information Technology Certificate

## Introductory Healthcare Informatics for Medical Professionals

<table>
<thead>
<tr>
<th>Course #</th>
<th>Course Title</th>
<th>Credits</th>
<th>Prerequisites</th>
<th>Semester Offered</th>
<th>Semester Taken</th>
<th>Grade Earned</th>
</tr>
</thead>
<tbody>
<tr>
<td>GIT102</td>
<td>Computer Keyboarding (or) 30wpm</td>
<td>1</td>
<td>None</td>
<td>Fall, Spring</td>
<td>Fall, Spring, Summer</td>
<td></td>
</tr>
<tr>
<td>GIT110</td>
<td>Microcomputer Applications Software</td>
<td>3</td>
<td>GIT102 or equivalent, ENL020 &amp; ENL050 or satisfactory basic skills assessment score</td>
<td>Fall, Spring</td>
<td></td>
<td></td>
</tr>
<tr>
<td>HIT110</td>
<td>Project Management for Healthcare Informatics*</td>
<td>3</td>
<td>GIT110 &amp; BIT103</td>
<td>Spring</td>
<td></td>
<td></td>
</tr>
<tr>
<td>GIT150</td>
<td>Database Applications</td>
<td>3</td>
<td>GIT120, HIT100 or equivalent skill level in Windows</td>
<td>Fall, Spring</td>
<td></td>
<td></td>
</tr>
<tr>
<td>HIT201</td>
<td>Introduction to Healthcare Informatics</td>
<td>3</td>
<td>HIT110 &amp; HIT201, HIT100 or experience in clinical healthcare setting, &amp; BIT103</td>
<td>Fall</td>
<td></td>
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<tr>
<td>HIT202</td>
<td>Healthcare Informatics in Practice</td>
<td>3</td>
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</tbody>
</table>

**Total Credits**: 15/16

---

**Overview**

Healthcare Informatics is the fusion of technology and healthcare. Students completing this certificate have a foundation in procedures and information systems as they apply to healthcare. Students entering this program should have training or work experience in a healthcare setting.

**Career Outlook**

Students completing the Healthcare Informatics Certificate are prepared to work at entry-level informatics positions in acute care or ambulatory care healthcare settings.

**Program Outcomes**

Upon completion of the Healthcare Informatics Certificate, students are able to:

- Read, write, discuss and think critically about topics and ideas in healthcare informatics.
- Analyze ethical issues and apply ethical standards in the performance of responsibilities in a variety of healthcare informatics settings.
- Participate in project planning, analysis, design, and implementation.
- Retrieve and manipulate data elements that make up effective healthcare databases including Electronic Medical Records (EMRs).
- Synthesize and apply the concepts, theories, and models of healthcare practice to the real world.
- Work well with teams in a healthcare informatics setting.
- Identify current and future trends that impact healthcare and healthcare informatics.
- Assume positions in a variety of healthcare informatics careers.
## Information Technology Certificate
### Networking

<table>
<thead>
<tr>
<th>Course #</th>
<th>Course Title</th>
<th>Credits</th>
<th>Prerequisites</th>
<th>Semester Offered</th>
<th>Semester Taken</th>
<th>Grade Earned</th>
</tr>
</thead>
<tbody>
<tr>
<td>GIT102</td>
<td>Computer Keyboarding (or) 30wpm</td>
<td>1</td>
<td>None (or) 30wpm</td>
<td>Fall, Spring</td>
<td></td>
<td></td>
</tr>
<tr>
<td>COM103</td>
<td>Human Communication</td>
<td>3</td>
<td>ENL010 or ESL102 or satisfactory basic skills assessment score</td>
<td>Fall, Spring, Summer</td>
<td></td>
<td></td>
</tr>
<tr>
<td>GIT110</td>
<td>Microcomputer Applications Software</td>
<td>3</td>
<td>GIT102 or equivalent, ENL020 &amp; ENL050 or satisfactory basic skills assessment score</td>
<td>Fall, Spring, Summer</td>
<td></td>
<td></td>
</tr>
<tr>
<td>BIT113</td>
<td>Microcomputer Hardware</td>
<td>3</td>
<td>MAT020, ENL020 &amp; ENL050 or satisfactory basic skills assessment score</td>
<td>Fall, Spring, Summer</td>
<td></td>
<td></td>
</tr>
<tr>
<td>BIT115</td>
<td>Operating Systems</td>
<td>3</td>
<td>GIT110</td>
<td>Fall, Spring</td>
<td></td>
<td></td>
</tr>
<tr>
<td>BIT187</td>
<td>Networking Essentials</td>
<td>3</td>
<td>Co-requisite: BIT115</td>
<td>Fall, Spring</td>
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<tr>
<td>BIT236</td>
<td>Wireless Networking</td>
<td>3</td>
<td>BIT187</td>
<td>Fall</td>
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<tr>
<td>BIT237</td>
<td>Windows Server Administration</td>
<td>3</td>
<td>BIT187</td>
<td>Fall</td>
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<tr>
<td>BIT239</td>
<td>Advanced Networking Essentials with Cisco</td>
<td>3</td>
<td>BIT187</td>
<td>Spring</td>
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<td>Total Credits</td>
<td>24/25</td>
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</tbody>
</table>

**Overview**
Students learn networking theory, planning, design, installation, support, troubleshooting, and administration of a wired and wireless network through the use of lecture and hands-on labs. This certificate provides knowledge and experience for various industry-recognized certification exams.

**Career Outlook**
Students completing the Networking certificate are trained to work as network technicians and network administrators. Students are encouraged to build on the certificate program and eventually obtain a degree at the College.

**Program Outcomes**
Upon completion of the Networking Certificate, students are able to:
- Read, write, discuss, and think critically about topics and ideas in information technology.
- Analyze ethical issues and apply ethical standards in the performance of responsibilities in a variety of information technology careers.
- Work with teams in an information technology setting.
- Synthesize information from documentation and use to solve business problems and provide customer service.
## Information Technology Certificate
### PC Service Technician

<table>
<thead>
<tr>
<th>Course #</th>
<th>Course Title</th>
<th>Credits</th>
<th>Prerequisites</th>
<th>Semester Offered</th>
<th>Semester Taken</th>
<th>Grade Earned</th>
</tr>
</thead>
<tbody>
<tr>
<td>GIT102</td>
<td>Computer Keyboarding (or) 30wpm</td>
<td>1</td>
<td>None (or) 30wpm</td>
<td>Fall, Spring</td>
<td></td>
<td></td>
</tr>
<tr>
<td>GIT110</td>
<td>Microcomputer Applications Software</td>
<td>3</td>
<td>GIT102 or equivalent, ENL020 &amp; ENL050 or satisfactory basic skills assessment score</td>
<td>Fall, Spring, Summer</td>
<td></td>
<td></td>
</tr>
<tr>
<td>BIT113</td>
<td>Microcomputer Hardware</td>
<td>3</td>
<td>MAT020, ENL020 &amp; ENL050 or satisfactory basic skills assessment score</td>
<td>Fall, Spring</td>
<td></td>
<td></td>
</tr>
<tr>
<td>BIT115</td>
<td>Operating Systems</td>
<td>3</td>
<td>GIT110</td>
<td>Fall, Spring</td>
<td></td>
<td></td>
</tr>
<tr>
<td>BIT187</td>
<td>Networking Essentials</td>
<td>3</td>
<td>Co-requisite: BIT115</td>
<td>Fall, Spring</td>
<td></td>
<td></td>
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<tr>
<td>Total Credits</td>
<td></td>
<td>12/13</td>
<td></td>
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</tbody>
</table>

**Overview**
Students in the PC Service Technician certificate develop a firm background in the basics of microcomputer systems. Balanced coverage of hardware and software are complemented by thorough treatment of memory, troubleshooting, networking, multimedia, maintenance, as well as DOS and Windows operating systems. This certificate program provides background for A+ Certification testing.

**Career Outlook**
Students completing the PC Service Technician certificate are prepared for employment as PC Service Technicians. Students are encouraged to build on the certificate program and eventually obtain a degree at the College.
### Information Technology Certificate
### Web Design

Click here for Gainful Employment information pertaining to Web Design.

<table>
<thead>
<tr>
<th>Course #</th>
<th>Course Title</th>
<th>Credits</th>
<th>Prerequisites</th>
<th>Semester Offered</th>
<th>Semester Taken</th>
<th>Grade Earned</th>
</tr>
</thead>
<tbody>
<tr>
<td>GIT102</td>
<td>Computer Keyboarding (or) 30wpm</td>
<td>1</td>
<td>None (or) 30wpm</td>
<td>Fall, Spring</td>
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<tr>
<td>GIT180</td>
<td>Intro. to the Internet</td>
<td>3</td>
<td>ENL020 &amp; ENL050 or satisfactory basic skills assessment score</td>
<td>Fall, Spring</td>
<td></td>
<td></td>
</tr>
<tr>
<td>GIT110</td>
<td>Microcomputer Applications Software*</td>
<td>3</td>
<td>GIT102 or equivalent, ENL020 &amp; ENL050 or satisfactory basic skills assessment score</td>
<td>Fall, Spring, Summer</td>
<td></td>
<td></td>
</tr>
<tr>
<td>GIT105</td>
<td>Office Communication Systems</td>
<td>3</td>
<td>ENL020 &amp; ENL050 or satisfactory basic skills assessment score</td>
<td>Fall, Spring</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CSC110</td>
<td>Computer Programming I: JAVA</td>
<td>3</td>
<td>MAT030 or satisfactory basic skills assessment score</td>
<td>Fall, Spring</td>
<td></td>
<td></td>
</tr>
<tr>
<td>GIT183</td>
<td>Web Site Design and Scripting</td>
<td>3</td>
<td>GIT110</td>
<td>Fall, Spring</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ART207</td>
<td>Graphic Design I</td>
<td>3</td>
<td>ART214 or ART205 or ART210; ART130 &amp; ART137 recommended (or) GIT110; ART130 recommended (or) ENL010 &amp; ENL040 or satisfactory basic skills assessment score &amp; some computer experience; ART130 recommended</td>
<td>Fall, Spring</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ART210</td>
<td>Graphic Production &amp; Layout I</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ART214</td>
<td>Digital Imaging I</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>GIT184</td>
<td>Web Authoring and Graphic Tools</td>
<td>3</td>
<td>GIT110</td>
<td>Fall, Spring</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CSC130</td>
<td>Computer Programming II: JAVA</td>
<td>4</td>
<td>CSC110</td>
<td>Spring</td>
<td></td>
<td></td>
</tr>
<tr>
<td>(or) BIT220</td>
<td>Internet Multimedia Development</td>
<td>(or) 3</td>
<td>GIT183 &amp; GIT184</td>
<td>Spring</td>
<td></td>
<td></td>
</tr>
<tr>
<td>BIT283</td>
<td>Client and Server-side Web Scripting</td>
<td>3</td>
<td>GIT183 &amp; CSC110 or BIT175 or CSC120</td>
<td>Fall</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Total Credits**: 27/28/29

### Overview

Students in the Web Design certificate develop skills in project management and teamwork while learning how to design and develop web sites using HTML, DHTML, Java, JavaScript, CGI, Perl, and web authoring and graphic software.

### Career Outlook

Click here for O*NET Online Occupation information.
Law Enforcement Certificate

Click here for Gainful Employment information pertaining to Law Enforcement.

<table>
<thead>
<tr>
<th>Course #</th>
<th>Course Title</th>
<th>Credits</th>
<th>Prerequisites</th>
<th>Semester Offered</th>
<th>Semester Taken</th>
<th>Grade Earned</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENL101</td>
<td>English Composition I</td>
<td>3</td>
<td>Appropriate scores in Reading Comprehension &amp; in Sentence Skills on the CPT or a grade of C or better in ENL020 &amp; ENL050 or ESL201</td>
<td>Fall, Spring, Summer</td>
<td></td>
<td></td>
</tr>
<tr>
<td>COM103</td>
<td>Human Communication</td>
<td>3</td>
<td>ENL010 or ESL102 or satisfactory basic skills assessment score</td>
<td>Fall, Spring, Summer</td>
<td></td>
<td></td>
</tr>
<tr>
<td>SOC106</td>
<td>Principles of Sociology</td>
<td>3</td>
<td>ENL020 &amp; ENL050 or satisfactory basic skills assessment score</td>
<td>Fall, Spring, Summer</td>
<td></td>
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</tr>
<tr>
<td>PSY101</td>
<td>General Psychology</td>
<td>3</td>
<td>ENL020 &amp; ENL050 or satisfactory basic skills assessment score</td>
<td>Fall, Spring, Summer</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CRJ101</td>
<td>Substantive Criminal Law</td>
<td>3</td>
<td>None</td>
<td>Fall</td>
<td></td>
<td></td>
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<tr>
<td>CRJ125</td>
<td>Contemporary Policing</td>
<td>3</td>
<td>None</td>
<td>Fall</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CRJ102</td>
<td>Procedural Criminal Law</td>
<td>3</td>
<td>None</td>
<td>Spring</td>
<td></td>
<td></td>
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<tr>
<td>CRJ105</td>
<td>Criminology, Theory and Practice</td>
<td>3</td>
<td>None</td>
<td>Fall</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CRJ130</td>
<td>Criminal Evidence</td>
<td>3</td>
<td>None</td>
<td>Fall</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Total Credits</td>
<td></td>
<td>27</td>
<td></td>
<td></td>
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</tr>
</tbody>
</table>

Overview
Developed in cooperation with the Massachusetts Chiefs of Police Association, the Law Enforcement Certificate program prepares students for a career in local law enforcement.

The certificate combines specialized criminal justice and general education coursework to provide students with knowledge and skills needed to compete for entry into the Massachusetts law enforcement field. All of the credits in the certificate program can be applied to the Criminal Justice Associate in Science degree.

The Law Enforcement certificate was developed in cooperation with the Massachusetts Police Chiefs Association and has been ratified by their Training and Education Committee as an important step in their goal to have a better-educated and more professional workforce. Although the certificate is not yet a requirement in the hiring and training procedures, it is anticipated that it will substitute for a significant part of the Massachusetts Training council curriculum in the near future.

Career Outlook
Click here for O*NET Online Occupation information.

Program Outcomes
Upon completion of the Law Enforcement Certificate, students are able to:

- Identify, evaluate and utilize effective verbal, non-verbal and written communication.
- Apply ethical principles in decision-making situations.
- Demonstrate an understanding of diversity and multiculturalism.
- Identify a problem and develop solutions.
- Properly use basic criminal justice terms and concepts.
- Identify, explain, and apply major theories of crime causation and individual criminal behavior.
- Identify and explain the interrelationship between the major components of the criminal justice system.
Paralegal Certificate

Click here for Gainful Employment information pertaining to Paralegal.

<table>
<thead>
<tr>
<th>Course #</th>
<th>Course Title</th>
<th>Credits</th>
<th>Prerequisites</th>
<th>Semester Offered</th>
<th>Semester Taken</th>
<th>Grade Earned</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENL101</td>
<td>English Composition I</td>
<td>3</td>
<td>Appropriate scores in Reading Comprehension &amp; in Sentence Skills on the CPT or a grade of C or higher in ENL020 &amp; ENL050 or ESL201</td>
<td>Fall, Spring, Summer</td>
<td></td>
<td></td>
</tr>
<tr>
<td>BIT130</td>
<td>Intro. to Substantive Law (or) Business Law</td>
<td>3</td>
<td>None (or)</td>
<td>Fall, Spring</td>
<td>Fall, Spring, Summer</td>
<td></td>
</tr>
<tr>
<td>GIT102</td>
<td>Computer Keyboarding (or) 30wpm</td>
<td>1</td>
<td>None</td>
<td>Fall, Spring</td>
<td></td>
<td></td>
</tr>
<tr>
<td>BIT132</td>
<td>Law Office Management</td>
<td>1</td>
<td>Co-requisite: BIT130 or BUS120</td>
<td>Spring</td>
<td></td>
<td></td>
</tr>
<tr>
<td>GIT110</td>
<td>Microcomputer Application Software</td>
<td>3</td>
<td>GIT102 or equivalent, ENL020 &amp; ENL050 or satisfactory basic skills assessment score</td>
<td>Fall, Spring, Summer</td>
<td></td>
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</tr>
<tr>
<td>BIT135</td>
<td>Civil Litigation</td>
<td>3</td>
<td>BIT130 or BUS120</td>
<td>Fall</td>
<td></td>
<td></td>
</tr>
<tr>
<td>BIT133</td>
<td>Legal Research and Writing</td>
<td>3</td>
<td>(BIT130 or BUS120) &amp; ENL101 &amp; two of: BIT131, BIT134, BIT135, BIT136, BIT137</td>
<td>Spring</td>
<td></td>
<td></td>
</tr>
<tr>
<td>BIT134</td>
<td>Real Estate, Mortgages and Landlord-Tenant Law</td>
<td>3</td>
<td>BIT130 or BUS120</td>
<td>Spring (odd)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>BIT131</td>
<td>Family Law</td>
<td>3</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>BIT136</td>
<td>Estate Planning, Wills, Trusts, and Probate Procedures</td>
<td>3</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>BIT137</td>
<td>Contracts, Business Organizations, and Transactions</td>
<td>3</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>BIT138</td>
<td>Criminal Law and Procedures</td>
<td>3</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>BIT238</td>
<td>Internship in Paralegal Studies</td>
<td>3</td>
<td></td>
<td></td>
<td></td>
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</tr>
</tbody>
</table>

Total Credits: 28/29

Overview

Paralegal students learn to do legal research, prepare legal documents, and investigate cases. This program trains individuals in the skills necessary to give legal assistance to attorneys, government agencies, and others.

Career Outlook

Click here for O*NET Online Occupation information.

*Paralegal Electives

BIT131 Family Law
BIT136 Estate Planning, Wills, Trusts, and Probate Procedures
BIT137 Contracts, Business Organizations, and Transactions
BIT138 Criminal Law and Procedures
BIT238 Internship in Paralegal Studies

Paralegal Course Sequence

Fall 2012
BIT130 Intro to Substantive Law
BIT131 Family Law
BIT135 Civil Litigation
BIT137 Contracts, Business. Organizations & Transactions
BIT238 Internship in Paralegal Studies

Spring 2013
BIT130 Intro to Substantive Law
BIT132 Law Office Management
BIT133 Legal Research & Writing
BIT134 Real Estate, Mortgages & Landlord/Tenant
BIT136 Estate Planning, Wills, Trusts, & Probate
BIT238 Internship in Paralegal Studies
# Programming for Computer Science Certificate

<table>
<thead>
<tr>
<th>Course #</th>
<th>Course Title</th>
<th>Credits</th>
<th>Prerequisites</th>
<th>Semester Offered</th>
<th>Semester Taken</th>
<th>Grade Earned</th>
</tr>
</thead>
<tbody>
<tr>
<td>CSC120</td>
<td>Computer Programming I: C++</td>
<td>4</td>
<td>MAT030 or satisfactory basic skills assessment score &amp; working knowledge of any programming language</td>
<td>Fall</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CSC110</td>
<td>Computer Programming I: JAVA</td>
<td>3</td>
<td>MAT030 or satisfactory basic skills assessment score</td>
<td>Fall, Spring</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CSC130</td>
<td>Computer Programming II: JAVA</td>
<td>4</td>
<td>CSC110</td>
<td>Spring</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CSC210</td>
<td>System Software and Assembly Language Programming</td>
<td>4</td>
<td>CSC130</td>
<td>Varies</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CSC230</td>
<td>Data Structures</td>
<td>4</td>
<td>CSC120 &amp; CSC130</td>
<td>Varies</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>General Education elective</td>
<td>3</td>
<td></td>
<td></td>
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</tr>
</tbody>
</table>

Total Credits: 22

**Overview**

Using hands-on projects and teamwork, Computer Science students learn to design, implement, and test programs in Java, C++, and assembly language. Students analyze and use various software development models and basic software engineering principles. Object-oriented programming methodology, systems software, and data structures are studied in depth. Students also complete concentrated course work in Calculus and Physics.

**Career Outlook**

Click here for O*NET Online Occupation information.
American Sign Language

Introduction to Deaf History and American Deaf Culture

ASL100. Introductory survey of the history of Deaf people in western culture. American Sign Language, the culture it reflects, various professions and organizations within the Deaf community, legislation impacting Deaf people, and an overview of educational approaches/controversies will be addressed. Emphasis is on the sociological and cultural make-up of Deaf people and the American Deaf community and their relations to non-Deaf society. Members of the Deaf community are involved in class activities. Prerequisite: None / 3 credits. Offered: Fall, Spring or satisfactory basic skills assessment scores or permission of instructor / 3 credits. Satisfies a Humanities and Fine Arts general education requirement. Offered: Fall, Summer.

American Sign Language II

ASL102. The continued study of American Sign Language with emphasis on increasing vocabulary usage both receptively and expressively. A detailed look into the grammar and structure of American Sign Language with continued exposure to Deaf culture. Prerequisite: ASL101 / 3 credits. Satisfies a Humanities and Fine Arts general education requirement. Offered: Fall, Spring.

American Sign Language III

ASL201. Further development of expressive and receptive communicative skills used with the sign language of the Deaf. Additional emphasis on increasing fluency in the language and in providing an opportunity for proficiency in use through extensive work in vocabulary acquisition, translations of Deaf and English idioms and study of the American Sign Language used by the Deaf. Prerequisite: ASL102 and ASL100 / 3 credits. Offered: Varies

Fingerspelling and American Sign Language Number Systems

ASL204. This course is designed to develop further competency in expressive and receptive fingerspelling and to study in depth the complex rules and patterns of numbers in ASL. Topics will include phonetic syllabication and strategies of fingerspelling, cardinal and ordinal systems, incorporate number systems, and unique number systems. Prerequisite: ASL102 / 2 credits. Offered: Varies

Comparative Cultures

ANT211. This course provides an in-depth examination of selected contemporary societies focusing on their customs, language, values, key social institutions and stratification systems. The various internal and external forces affecting political, economic, religious and social cultural dynamics in different, distinct cultures are examined. Students explore the differing social relationships within the family and the community in selected societies. The course also provides a review of selected anthropological case studies from many world cultures. Prerequisite: SOC106 or ANT107 / 3 credits. Offered: Varies

Peoples and Cultures of the Middle East

ANT215. This course is an overview of the cultures of the contemporary Middle East. Emphasis is placed on understanding the region’s cultural, social, political, and religious diversity. Popular and academic conceptions (and misconceptions) of the region are examined and a general history of the region is introduced in order to develop an anthropological perspective on the contemporary culture as observed in the villages, towns, cities, and nations of the region. Prerequisite: ANT107 or SOC106 / 3 credits. Satisfies a Behavioral & Social Sciences general education requirement. Offered: Varies

Arabic

Conversational Arabic

ARB100. This basic conversational Arabic course is designed to introduce to the non-native speaker of Arabic the basic skills necessary to developing a working knowledge of spoken Arabic. The emphasis is on listening, speaking, and understanding spoken Arabic. Prerequisite: ENL050 or satisfactory basic skills assessment score / 3 credits. Offered: Fall, Spring
Immiscion Study in Arabic Language and Civilization
ARB122. Students study spoken Arabic language and civilization in an Arabic speaking country. Traditional class work is supplemented by field trips and cultural activities. Prerequisite: None / 3 credits. Offered: January Intersession

Art

Drawing I
ART100. Students apply various graphic approaches that may include drawing from still life, landscape, and human figure. Emphasis is on individual creative expression with the objective being the development of perception and understanding of natural phenomena and translation of this information to a two-dimensional surface. Examples of contemporary drawing are appraised in the context of diversity and cultural differences. Prerequisite: ENL010 and ENL040 or satisfactory basic skills assessment score / 3 credits. Satisfies a Humanities & Fine Arts general education requirement. Offered: Fall, Spring, Summer

Design I
ART101. Basic design elements including line, shape, color, texture, value, and composition and their integration on a two-dimensional surface are studied and applied. Students examine the nature and effect of color in its full utilization as a design element in conjunction with the interaction of positive and negative space, optical phenomena, and theories of harmony and visual dynamics. Cultural, ethical, and environmental influences on design from a global perspective will be understood. Prerequisite: ENL010 and ENL040 or satisfactory basic skills assessment score / 3 credits. Satisfies a Humanities & Fine Arts general education requirement. Offered: Fall, Spring

Studio Art I
ART102. An introduction to the realm of the visual arts. There will be an attempt to explore the individual’s creative process by exploring various media with an emphasis on freedom of expression and development of individual style and perceptual awareness through a variety of creative responses. Prerequisite: ENL010 and ENL040 or satisfactory basic skills assessment score / 3 credits. Offered: Fall, Spring

Painting I
ART103. This is an introductory course in painting, exploring a variety of approaches and painting media. A series of landscape, still life, and personal imagery paintings are investigated as both descriptive and imaginative forms of creative expression. The ethical, multicultural and international contributions of paintings are evaluated. Prerequisite: ART100 / 3 credits. Satisfies a Humanities & Fine Arts general education requirement. Offered: Fall, Spring, Summer

Watercolor I
ART104. An introductory course in watercolor painting with an emphasis on color mixing, paint techniques, and pictorial composition. Students will have an opportunity to develop an understanding and awareness of the materials and subject possibilities of watercolor painting as a means of personal expression. Prerequisite: ART100 / 3 credits. Offered: Fall

Visual Language
ART105. Students study and develop fundamental elements of perspective, line, form, color, spatial composition and structure that form the underlying basis for all aspects of the Visual Arts. A fundamental goal for this course is to investigate the communicative power of art. Prerequisite: ENL010 and ENL040 or satisfactory basic skills assessment scores / 3 credits. Offered: Fall, Spring, Summer. Satisfies a Humanities and Fine Arts general education requirement.

Sculpture
ART106. This course introduces the student to sculptural processes by exploring a variety of materials and technical approaches. Instruction focuses on the basic elements of sculptural form and composition through the processes of placement, movement, balancing of masses, and special definition. Principles and concepts of three-dimensional design are applied in the expression of sculptural form. Prerequisite: ART136 / 3 credits; may be repeated once for credit. Offered: Fall, Spring, Summer

Fundamentals of Art
ART108. This course is designed to help students develop an appreciation for art and an informed understanding of the creative process by looking at, talking about and making art. Students build basic artistic abilities and confidence through exploring color and two- and three-dimensional design. Prerequisite: None / 3 credits. Offered: Fall, Spring

Video Blogging
ART111. Students research, develop, and design a video blog through practical projects using the most recent web 2.0 applications incorporating text, images, audio, and video. Multimedia, internet-based forms are explored through personal expression. Students learn ethical and civic responsibility as authors and producers of media and information created for the Internet. Students must have access to the equipment (e.g., digital camera, cell phone or video camera) required to record digital video. Prerequisite: ENL010 and ENL040 or satisfactory basic skills assessment score; GIT108 recommended / 3 credits. Offered: Fall

History of Art: Stone Age to Gothic
ART125. This course provides an interdisciplinary approach to the art of the western world from the magical creations of the Old Stone Age to the magnificent works of the Gothic era. Illustrated lectures deal with such topics as the ideas guiding the artistic creations, general stylistic trends, important methods, materials and techniques used. Prerequisite: ENL010 and ENL040 or satisfactory basic skills assessment score / 3 credits. Satisfies a Humanities & Fine Arts general education requirement. Offered: Fall, Spring

History of Art: Renaissance to Romanticism
ART126. This course provides an interdisciplinary approach to the art of the western world from the Proto-Renaissance to the Age of Romanticism. Illustrated lectures deal with such topics as general aesthetic trends, the life and work of key artists, ideas guiding their creations, as well as important methods, materials and techniques they employed. Prerequisite: ENL010 and ENL040 or satisfactory basic skills assessment score / 3 credits. Satisfies a Humanities & Fine Arts general education requirement. Offered: Fall, Spring

You Can Design!
ART130. An online introduction to understanding and interpreting the world around you for the purpose of creating art work. Recognizing and identifying elements of visual language like line, shape, color, texture, and tone lead to applying these elements in the creation of art and design work. Critically evaluating art work and the work of other artists and designers helps nurture confidence in the use of visual language and provides a basis for exploring all forms of visual expression, including drawing, painting, life drawing, sculpture, design, graphic art, web site design and printmaking. Prerequisite: ENL010 and ENL040 or satisfactory basic skills assessment score / 1 credit. Offered: Fall, Spring, Summer
Modern Art: Realism to Surrealism
ART132. In this course, students explore art produced from 1850 to the 1940s, with a focus on European art. Illustrated lectures deal with such topics as general aesthetic trends, the life and work of key artists, ideas guiding their creations as well as themes, styles, materials and techniques employed by individual artists. Prerequisite: ENL010 and ENL040 or satisfactory basic skills assessment score / 3 credits. May be repeated once for credit. Satisfies a Humanities & Fine Arts general education requirement. Offered: Spring

Textile / Fiber Arts I
ART135. Students investigate and develop various approaches to fiber art, using traditional and non-traditional materials. Various techniques are applied with an emphasis on creative expression. Prerequisite: None / 3 credits. Offered: Fall

Three-Dimensional Design
ART136. This course is an introduction to the elements of visual language (line, shape, tone, texture, color, light, volume, negative space) in 3D form. Students solve 3D design problems by creating modeled and constructed forms both in relief and free-standing form. Historical references are made to support the development and understanding of the work. This course can inspire students to explore their creative expression in sculpture. Prerequisite: ENL010 and ENL040 or satisfactory basic skills assessment score / 3 credits; may be repeated once for credit. Satisfies a Humanities & Fine Arts general education requirement. Offered: Fall, Spring

History of Graphic Design
ART137. This course critically investigates and explores graphic design and visual communication history, materials, techniques and styles, major movements and significant artists and designers. This course requires students to participate in lecture and presentation, and prepare writing and studio projects. Students build a conceptual and visual understanding of vocabulary, applying critical thinking and visual skills in an evaluation of the historical context and the importance of historical reference in graphic design work. Prerequisite: ENL010 and ENL040 or satisfactory basic skills assessment score / 3 credits. Offered: Fall, Spring

Digital Photography
ART139. This is an introductory course in digital photography, exploring both digital capture and aspects of Adobe Photoshop®. This course focuses on developing strong photographic skills, creating dynamic images and an online portfolio. Students explore light in relation to photography, relevant aspects of photographic history and contemporary photography. Prerequisite: ENL010 and ENL040 or satisfactory basic skills assessment score; ART214 recommended / 3 credits. Offered: Fall, Spring, Summer

Introduction to Silkscreen Printing
ART140. Students study elements and apply methods of silkscreen printing. Students create individual printable designs and work on paper and fabric surfaces to create multicolor screen-printed images. Techniques may include a variety of stencil making methods, direct approaches, and photo-emulsion. Prerequisite: ENL010 and ENL040 or satisfactory basic skills assessment score / 3 credits. Offered: Fall, Spring

Drawing and Writing in Scotland
ART141. This course offers a travel experience for students interested in improving their drawing and writing skills and exploring Scotland's many places of stunning historical and natural beauty. Students appreciate the close relationship between drawing and writing through sharing their visual and literary expressions. Ways of seeing through writing and drawing are examined and the use of language both visual and literal are applied and understood through exploring Scotland - the land, culture and people. Prerequisite: ENL010 and ENL040 or satisfactory basic skills assessment score / 3 credits. Offered: Summer

Graphic Design I
ART205. Illustration I is a detailed exploration of a variety of drawing, painting and design concepts and techniques using Adobe Illustrator®, Design I. Development of personal expression is addressed, as students use various techniques to illustrate book, poster, periodical and editorial designs. Prerequisite: ENL010 and ENL040 or satisfactory basic skills assessment score and some computer experience required; ART130 recommended / 3 credits. Satisfies a Humanities & Fine Arts general education requirement. Offered: Fall, Spring

Illustration II
ART206. Further development and definition of a personal illustration style through specific commercial assignments that transform the knowledge and skills of using Adobe Illustrator® program into finished illustrations. Using photos, drawings, and clipart, students work on various editorial, advertising, and self-promotion projects with a focus on portfolio development. Prerequisite: ART205 / 3 credits. Offered: Spring

Graphic Design II
ART207. Introduction to the field of graphic design, including typography, layout and general graphic techniques. The use of technology and computational skills are applied in studio projects to support creativity and proficiency in handling media and preparing graphic designs. Ethical principles and concepts in communication design are explored in multicultural and global contexts. Prerequisite: ART214 or ART205 or ART210; ART130 and ART137 recommended / 3 credits. Satisfies a Humanities & Fine Arts general education requirement. Offered: Fall

Printmaking Techniques
ART209. The study and development of the fundamental elements of printmaking techniques using a variety of approaches to edition and unique printing. Students cover all aspects of print preparation and printing. Prerequisite: ENL010 and ENL040 or satisfactory basic skills assessment score / 3 credits. Satisfies a Humanities & Fine Arts general education requirement. Offered: Spring, Fall
Graphic Production and Layout I  
ART210. This course is an introduction to the field of electronic publishing and preparing materials for printed output using modern computer-based technologies. It explores the basics of digital typography and page layout using a professional page layout application to assemble various text-based and graphical elements into cohesive and effective communications using guided and unguided hands-on exercises to produce simple documents. Also covered are the fundamentals of color as they apply to printing. Emphasis is on the mastery of the software and technology. Students will be required to spend time outside of class working with the computer software to complete these exercises. This class requires significant skills in computer operation and file navigation/management that can be gained through the prerequisite. Students who believe they have these skills without taking the prerequisite may request a waiver from the instructor. Prerequisite: GIT110; ART130 recommended / 3 credits. Offered: Fall, Spring

Art Gallery Management and Display  
ART212. This course is designed as a hands-on experience and study of art gallery management and display methods appropriate to the level of the individual student. Students have the opportunity to work under faculty supervision and direction and are provided with theoretical and practical experience in the area of gallery management and display methods. Prerequisite: Two ART courses / 1, 2 or 3 credits; may be repeated once for credit; 6 credits maximum. Offered: Varies

Myths, Legends and Symbols in Art  
ART213. In this course, students explore key myths, legends and symbols in the visual arts and the way in which they have been interpreted by artists throughout history. Illustrated lectures include the study of art works which deal with specific divinities, legendary and mythic figures as well as symbolic elements such as particular flowers, fruit, animals, objects, colors and numbers. Disciplines such as music, literature, drama, or cinema, relating to the topics discussed in class, are incorporated into the course. Prerequisite: ENL101 / 3 credits. Offered: Fall

Digital Imaging I  
ART214. This introductory course covers Adobe Photoshop® software and scanning techniques and their relationship to graphic design. Students learn from hands-on projects the features of Adobe Photoshop®. Assignments are tailored to a wide variety of users, from graphic designers, artists, photographers, and web page designers. From the first pixel to the finished picture, students gain imaging proficiency and a strong understanding of the program. Prerequisite: ENL010 and ENL040 or satisfactory basic skills assessment score and some computer experience required; ART130 recommended / 3 credits. Satisfies a Humanities & Fine Arts general education requirement. Offered: Fall, Spring

Digital Imaging II  
ART215. A continuation of ART214. A more advanced study of Adobe Photoshop® software and scanning techniques and their relationship to graphic design. Hands-on assignments promote a deeper understanding of imaging principles, color correction and layering of photos and artwork. Assignments will be tailored to a wide variety of users, from graphic designers, artists, photographers, and web page designers. From the first pixel to the finished picture, students gain greater imaging proficiency and stronger understanding of the problem. Prerequisite: ART214 / 3 credits. Offered: Spring

Life Drawing  
ART216. Through the use of traditional and contemporary drawing media and methods, students explore gesture, modeling, anatomy, tonality, form, composition, and other aspects of figurative study from the model. Prerequisite: ART100 / 3 credits; Offered: Fall, Spring

Book Arts and Paper Making  
ART225. A detailed exploration of a variety of basic and advanced concepts and techniques in making hand-made books and the exploration of the forming of hand-made paper. Students are encouraged to develop professionalism and a familiarity with the mediums in order to develop an expertise in these fields as well as directions in personal style and expression. Topics include bookbinding techniques, basic paper making techniques, and an exploration of printmaking forms, to be incorporated with the books and hand-made paper. Prerequisite: Two 3-credit art classes / 3 credits. Offered: Varies

Advanced Printmaking  
ART226. This course enables students to continue the study of printmaking and further develop their ideas through the exploration of advanced techniques and concepts. The class uses a variety of approaches to edition and unique printing. Students explore collagraph, woodcut, and solar etching. Students become proficient in all aspects of plate preparation and printing using professional printmaking inks. Prerequisite: ART209 / 3 credits; may be repeated once for credit. Offered: Spring

Advanced Painting  
ART228. This course provides the opportunity for personal interpretation of subject matter with an investigation of technical approaches leading to the development of a personal style of expression. Prerequisite: ART103 / 3 credits; may be repeated once for credit. Offered: Spring

Women Artists: Medieval to Modern  
ART246. In this course, students explore the aesthetic contributions of women artists from the Middle Ages to the modern era. Illustrated lectures deal with such topics as the life and work of key artists, ideas guiding their creations, as well as themes, styles, materials and techniques employed by individual artists. The course also deals with the difficulties that they have faced as women artists within a largely male-dominated field and the role women have played as collectors and as subjects of art. Prerequisite: ENL101 / 3 credits. Offered: Spring

Mosaics  
ART248. The course gives the student the opportunity to learn the ancient art of Mosaics. The focus is on methods of execution of mosaics utilizing ceramic, stone and glass. The student creates individual projects and has the opportunity to collaborate on group projects such as murals, sculpture, and art installations. Prerequisite: One 3-credit art course / 3 credits; may be repeated once for credit. Offered: Fall, Spring

Advanced Projects in the Visual Arts  
ART250. An opportunity for a student to focus on an individualized form of Visual Art that is not available on an extensive basis in any of our traditional structured credit courses. Projects may vary from semester to semester to allow for innovation, flexibility, and quality of personal experience. Concentrations could focus, for example, on book design, advanced painting, printing, projects in advanced drawing, and portfolio development. Prerequisite: 6 hours of studio art courses and interview by instructor / 3 credits; may be repeated once for credit. Offered: Varies
Portfolio Preparation and Professional Practices for Artists

ART255. This course covers preparing, critiquing, and presenting a portfolio utilizing existing, personal art work. Other topics include marketing, writing a resume and cover letter, creating an artist’s statement, working with galleries, selling art work, and researching and writing grants. The course also introduces practical and legal aspects of being self-employed. Students are expected to have finished artwork for a portfolio. Prerequisite: ART100 and permission of the instructor / 3 credits. Offered: Fall.

Internship in Graphic Design

ART256. This course is designed to provide a practical experience in a professional graphic arts setting and preparation for a successful career in the graphic design field. Designation of intern site will be based on student academic and career goals. The student works in a graphic design business for 150 hours. Prerequisite: ART205, ART207, ART210, ART214, and BIT220 / 3 credits. Offered: Varies

Astronomy

Fundamentals of Astronomy

AST101. A one-semester science course, with laboratory, that provides an introduction to the principles and theories of contemporary astronomy within and beyond the solar system. The course traces the pathways of observation, conjecture, thought, investigation and discovery to demonstrate how scientific inquiry has enabled the human mind to attain an unprecedented insight to the nature of the universe. (3 class hours / 2 laboratory hours) Prerequisite: MAT030, ENL020, and ENL050 or satisfactory basic skills assessment scores / 4 credits. Satisfies a Natural or Physical Science general education requirement. Offered: Fall, Spring, Summer

Current Topics in Astronomy

AST201. This course provides an opportunity for students to explore various topics of current interest in astronomy, adding breadth and depth to their knowledge of the cosmos and building independent research and presentation skills. Most course materials are drawn from highly credible sources on the Internet (for example NASA.GOV) and current astronomical publications. Prerequisite: AST101 or PHY101 or PHY211 / 3 credits. Offered: Varies

Concepts in Biology I

BIO101. The course provides a descriptive and experimental approach to major concepts in modern biology from the molecular to the organism level. It is primarily designed for the student intending to pursue a degree in Biology or a related life science and places a heavy emphasis on the chemistry of life. Major topics include the chemical basis of life, its organization and continuity, the evolution of complexity, and the taxonomic relationship of organisms. (3 class hours / 2 laboratory hours) Prerequisite: MAT030, ENL020, and ENL050 or satisfactory basic skills assessment scores / 4 credits. Satisfies a Natural or Physical Science general education requirement. Offered: Fall, Spring, Summer

Concepts in Biology II

BIO102. This course is a continuation of BIO101. It is designed to acquaint the student with the structure and function of plant and animal systems and finally to provide a view of the organism’s environment and its place therein. Lectures and laboratory sessions are utilized. In lab, the study of animal physiology and ecological systems is stressed. Dissection, physiological testing and some field work provide the basis for learning. (3 class hours / 2 laboratory hours) Prerequisite: A grade of C or better in BIO101 / 4 credits. Satisfies a Natural or Physical Science general education requirement. Offered: Fall, Spring, Summer

Survey of Human Anatomy and Physiology

BIO105. This is an introductory course of human anatomy and physiology. The course starts with anatomical terms and basic cellular biology and then emphasizes the structure and function of several organ systems. The laboratory portion of the course involves the examination of slides, bones, models, and the dissection of a rat. (This course does not meet the Nursing and Dental Hygiene program requirements for Anatomy and Physiology.) (3 class hours / 2 laboratory hours) Prerequisite: MAT020, ENL020 and ENL050 or satisfactory basic skills assessment scores / 4 credits. Satisfies a Natural or Physical Science general education requirement. Offered: Fall, Spring, Summer

Human Anatomy and Physiology I

BIO107. A comprehensive systematic study of the human body emphasizing the structure and function of the systems. Part I topics include: cells and tissues, chemistry review, metabolism, the integumentary, skeletal, muscular and reproductive systems with correlated laboratory work. (3 class hours / 2 laboratory hours) Prerequisite: A grade of C or higher in CHM109 or BIO101 or CHM101 / 4 credits. Satisfies a Natural or Physical Science general education requirement. Offered: Fall, Spring, Summer

Human Anatomy and Physiology II

BIO108. This course is a comprehensive systematic study of the human body emphasizing the structure and function of several organ systems. Human Anatomy and Physiology II covers the following organ systems: nervous, endocrine, circulatory, lymphatic, respiratory, digestive, and urinary. Lecture topics are correlated with laboratory work. (3 class hours / 2 laboratory hours) Prerequisite: A grade of C or better in BIO107 / 4 credits. Offered: Fall, Spring, Summer

Survey of Biology

BIO109. This is a survey course of biology, the study of life, in one semester. It is designed to conceptually and experimentally explore the processes that sustain life. Major topics include cell biology, adaptation and evolution, genetics and reproduction, ecology and diversity, taxonomy and classification. The course is not intended for science majors. Prerequisite: MAT020, ENL020, and ENL050 or satisfactory basic skills assessment scores / 4 credits. Offered: Fall, Spring. Satisfies a Natural or Physical Science general education requirement.

Microbiology

BIO201. An introduction to microorganisms and their activities, for health-related majors. The topics cover cell structure, classification, metabolism, methods of control, antimicrobial drugs, genetics, microbial and host defenses, immunology and applications, representative infectious diseases, and food and industrial microbiology. Independent study is encouraged. The laboratory component includes basic procedures of handling, growing, and identifying microorganisms. (3 class hours / 2 laboratory hours) Prerequisite: A grade of C or higher in CM101 or CHM109 and BIO101 or BIO107 / 4 credits. Offered: Fall, Spring, Summer

Introduction to Public Health

BIO204. This course provides an introduction to the public health. Its biomedical basis, including infectious and non-infectious diseases, environmental pollutants, and related factors are discussed. Other topics covered include social, behavioral, and environmental factors that affect public health, Federal, state and international health agencies. Epidemiological principles, surveillance and regulation are addressed with analysis of case studies. Emerging diseases, biotechnology, and new investigative tools are also introduced. Prerequisite: MAT030 or satisfactory basic skills assessment score, ENL101, and a 4-credit science course with lab component / 3 credits. Offered: Fall, Spring. Satisfies an Interdisciplinary Studies general education requirement.

Biology

The following two courses (BIO101 and BIO102) constitute a coordinated general biology sequence. Students are expected to complete both courses.
Cooperative Work Experience in the Natural Sciences SCI261. This course provides students the opportunity to participate in a laboratory or field project in the natural sciences, under the supervision of a mentor. The course provides the student with the opportunity to apply the principles learned in the classroom to a practical real-world project. The project may be performed on campus, or at an off-campus location. The project outline needs to be approved by the department. Time commitment is based on the number of credits, approximately 70 hours per credit. Prerequisite: Two 4-credit science with labs courses with a grade of C or higher and approval of the department / Variable credits. 1, 2, 3, or 4 credits. Offered: Varies

Business - Accounting

Personal and Small Business Taxes ACC110. Students learn the kinds of taxes that an individual or small business must report to federal and state governments. Income taxes are the primary focus and students learn to apply the method and principles of tax preparation using a computerized tax preparation software package. Prerequisite: None / 3 credits. Offered: Spring

Accounting I with Computer Applications ACC111. (formerly ACC101) Introduction to the accounting cycle: recording transactions, posting to ledgers, preparing work sheets and financial statements. Includes: special journals, inventory valuation, receivables, payables and interest on notes. Hands-on introduction to computerized accounting, solving selected problems using general ledger software including QuickBooks is included. This is the first course of a two-course series (ACC111 and ACC112) intended for A.S. Business Administration concentrations covering the topics of Financial Accounting. Prerequisite: MAT020 and ENL020 or satisfactory basic skills assessment scores / 3 credits. Offered: Fall, Spring

Accounting II with Computer Applications ACC112. (formerly ACC102) This course continues ACC111 covering liabilities, long-term assets and sources of equity in partnerships, corporations, and proprietorships. Analysis of accounting information is also covered. Computerized accounting including QuickBooks and Peachtree will be used for selected problems as well as the completion of a computerized practice set. This is the second course of a two-course series (ACC111 and ACC112) intended for A.S. Business Administration concentrations covering the topics of Financial Accounting. Prerequisite: ACC111 or ACC101 and MAT030 or satisfactory basic skills assessment score / 3 credits. Offered: Fall, Spring

Financial Accounting ACC201. Students learn principles of financial accounting with emphasis on service and merchandising businesses. Topics include: the accounting cycle, recording transactions, adjusting accounts and preparing financial statements, inventory valuation, depreciation methods, disposal of assets, receivables, liabilities, investments, and interpreting financial statements of proprietorships, partnerships and corporations. This is a transfer level course in Financial Accounting intended for the Associate of Arts student. Prerequisite: BUS100 or HRM140, GIT110, MAT030 and ENL020 or satisfactory basic skills assessment scores / 3 credits. Offered: Fall, Spring, Summer

Managerial Accounting ACC202. Students learn managerial accounting concepts applied to a variety of businesses with emphasis on job order costing, process costing, cost allocation and cost-volume profit analysis. The budgeting process will be examined using master budgets and planning, flexible budgets with standard costs and variances, capital budgets and managerial decisions. Prerequisite: ACC201 or (ACC111 and ACC112) / 3 credits. Offered: Fall, Spring, Summer

Intermediate Accounting I ACC221. Refinement of principles. Special valuation problems on cash, receivables, inventories, investments, and other assets. Prerequisite: ACC202 or ACC105 / 3 credits.

Intermediate Accounting II ACC222. Continues ACC221. Special valuation problems in liabilities and equity, such as interest method in bonds, leases, and cash-flow statements. Prerequisite: ACC221 / 3 credits.

VITA Practicum ACC263. This Volunteer Income Tax Assistance (VITA) practicum provides an opportunity for students to perform a community service in cooperation with the Internal Revenue Service and the Massachusetts Department of Revenue. The course trains students to assist taxpayers in filling out tax returns. Students also staff centers on Cape Cod, helping local residents complete their tax returns. Prerequisite: ACC101 or ACC111 or ACC201. Co-requisite: ACC110 (may be taken concurrently) / 3 credits. Offered: Spring

Business - Entrepreneurship

Introduction to Entrepreneurship ENT108. Provides an overview of the entrepreneurial process of creating businesses, non-profits and other new ventures. Students learn about the roles and attributes of successful entrepreneurs while undergoing a rigorous self-assessment process. Students interview a local entrepreneur, participate in case studies related to new ventures and have the opportunity to learn directly from a variety of speakers invited to class to share their start-up experiences, including ethical dilemmas and other obstacles they will face as entrepreneurs. Prerequisite: None / 3 credits. Offered: Fall, Spring, Summer

Business - General

Introduction to Business BUS100. Students examine the purpose, role and responsibility of business in American society and gain a broad overview of the functions, institutions, principles and practices of business and other organizations. This course provides a basic foundation for those students who will specialize in business and an opportunity for non-business majors to learn about the business world as a major social institution. Prerequisite: None / 3 credits. Offered: Fall, Spring, Summer

Business Law I BUS120. A comprehensive guide to the basic principles and practices of Business Law. This includes an introduction to law and its application in the business world. The course covers the law of business ethics, the judicial process, contracts, sales, agency, employment law, partnerships, corporations and other forms of business organization. Prerequisite: None / 3 credits. Offered Fall, Spring, Summer

Business Administration Cooperative Work Experience BUS261. Students work in an organizational setting for no less than 150 hours to receive practical training and experience related to the student's academic program. All students enrolled in Business Administration programs are encouraged to take a cooperative work experience. This course is limited to students enrolled in Business Administration programs. Prerequisite: Approval by the Business internship instructor / 3 credits. Offered: Fall, Spring, Summer.
International Business: A European Experience
BUS225. Refer to International Studies.

Business - Management

Supervision
BUS103. This course provides an opportunity to learn effective supervisory practices. Although various concepts and theories are covered to provide a conceptual framework for management and supervision, the emphasis is on the practical experiences of supervisors. Prerequisite: None / 3 credits. Offered Fall, Spring, Summer

Human Resource Management
BUS107. Students learn about the principles and practices of human resource management including staffing, developing, motivating, leading, and controlling the human resources of a business, government, or non-profit organization. Prerequisite: None / 3 credits. Offered: Fall, Spring, Summer

Business Finance
BUS201. This course provides an overview of the principles and practices of financial management. Includes the study of the procurement and effective use of funds in a business, budget preparation, alternative sources of funds, and control of working capital. Prerequisite: ACC202 or ACC105 / 3 credits. Offered: Fall, Spring, Summer

Management
BUS214. Provides an introduction to principles and techniques of management as they relate to business, government, and non-profit organizations. Includes the study of the functions of management: coordinating, problem-solving, decision-making, communicating, planning, organizing, staffing, directing, and controlling. Prerequisite: ENL020 or satisfactory basic skills assessment / 3 credits. Offered: Fall, Spring, Summer

Business - Marketing

Advertising
MKT103. Students study and analyze the principles and practices of advertising including its functions in our society, its role in business, its challenges, and the creative opportunities that exist in the field of advertising. Emphasis is placed on how and why advertising influences consumer behavior, including a study of the various types of media used. Prerequisite: ENL020 or satisfactory basic skills assessment score / 3 credits. Offered: Fall, Spring, Summer

Consumer Behavior
MKT106. Students learn about the various processes and facets of consumer motivation and behavior, including the internal and external influences on buyer behavior. Prerequisite: MKT100 / 3 credits. Offered: Fall, Spring, Summer

Customer Service: Concepts and Applications
MKT112. This course provides an overview of customer service concepts and terminology and exposes students to various customer service challenges. Students learn to identify different types of customer behaviors, determine customer needs through active listening, become effective verbal and non-verbal communicators, hone telephone customer service skills, learn how best to handle difficult customers, become aware of how to offer customer service within a diverse organizational environment, take steps to encourage customer loyalty, and practice service recovery. Prerequisite: None / 3 credits. Offered: Fall, Spring, Summer

Chemistry

The following two courses (CHM101 and CHM102) constitute a chemistry sequence that covers chemistry without the use of calculus.

General Chemistry I
CHM101. This course emphasizes the atomic nature of matter, fundamental laws and theories of mass and energy, the periodic classification of elements, chemical bonding, nomenclature, kinematic molecular theory applied to solids, liquids and gases, solution chemistry, and descriptive chemistry. Laboratory studies reinforce the principles and concepts studied in lecture and will initiate the student to sound methods of scientific investigation. (3 class hours / 3 laboratory hours) Prerequisite: MAT040 or MAT110 and ENL020, ENL050 or satisfactory basic skills assessment scores / 4 credits. Satisfies a Natural or Physical Science general education requirement. Offered: Fall, Summer

Organic Chemistry I
CHM201. This course covers organic nomenclature, bonding, structure, reaction theory, aliphatic hydrocarbons, functional groups, stereochemistry, aromatic hydrocarbons, alky halides, and reaction mechanisms. The laboratory emphasizes basic laboratory techniques for separation, purification and synthesis. (3 class hours / 4 laboratory hours) Prerequisite: A grade of C or higher in CHM101 / 5 credits. Offered: Fall, Spring, Summer

Organic Chemistry II
CHM202. Continuation of CHM201. It includes nomenclature, reaction mechanisms, name reactions, synthesis, organic qualitative analysis, carbanions, oxygen and nitrogen containing functional groups, spectroscopy and biochemical processes. In the laboratory, organic qualitative analysis, synthesis, and spectroscopy of organic compounds are taught. (3 class hours / 4 laboratory hours) Prerequisite: A grade of C or higher in CHM201 / 5 credits. Offered: Spring
Cooperative Work Experience in the Natural Sciences SCI261. Refer to Biology.

Communication

Voice and Diction COM100. This course provides the student with basic vocal skills. Particular attention is paid to incorporating techniques to open the voice, breathing, tone production, articulation and diction. This course is designed for the student working to improve their oral skills with an interest towards performance and/or oration. Prerequisite: None / 3 credits. Offered: Fall, Spring

Human Communication COM103. This course fosters and improves competence in intrapersonal, interpersonal, group and public communication situations. Students will demonstrate skills necessary to communicate effectively through exercises and presentations that reflect practical, real-world situations. The purpose of the course is to improve the student’s skill in communication by providing relevant knowledge and opportunity to apply that knowledge. Prerequisite: ENL010 or ESL102 or satisfactory basic skills assessment score / 3 credits. Satisfies a Humanities & Fine Arts general education requirement. Offered: Fall, Spring, Summer.

Survey of Mass Communication COM105. This course explores the history, social impact, forms, and techniques of such media as newspapers, film, books, radio, television; and other expressions of mass culture. The aims of the course are to enable the student to better understand the media-oriented environment in which we find ourselves and to explore various options available as a consumer of public information. Prerequisite: ENL010 or a satisfactory reading comprehension score on the basic skills assessment / 3 credits. Satisfies a Humanities & Fine Arts general education requirement. Offered: Fall, Spring

Radio Broadcasting COM113. This course is designed to instruct the student in the operation of a radio station. On-air and off-air broadcasting techniques are discussed. Broadcast management, legal requirements, announcing, and copywriting are considered as they relate to specific assignments and duties at a radio station. Decisions involved with programming formats are considered. Students apply knowledge to individual and collective work projects. Students are expected to be proficient in computer file management skills. (60 hours required per semester) Prerequisite: None / 3 credits. Offered: Fall, Spring, Summer

Radio Production COM114. This course is designed to instruct the student in radio production. Audio production, equipment, engineering, audio editing software, copywriting, broadcast delivery, and production techniques are considered as they relate to specific assignments and duties at a radio station. Students learn digital audio techniques that can be applied to a variety of communications settings such as: podcasting, commercial production, public relations, and audio for the Web. Students apply knowledge to individual and collective work projects. Students are expected to be proficient in computer file management skills. (60 contact hours per semester) Prerequisite: None / 3 credits. Offered: Fall, Spring

Introduction to Video Production COM131. Students learn video production through lectures and hands-on projects. Specific skills covered include concept development, storyboarding, proper video camera operation, framing, and camera angles. While learning about the equipment and techniques used in video production and post production, students write and produce two projects that are edited on a non-linear system and screened in class for review. Students are expected to be proficient in computer file management skills. Prerequisite: None / 3 credits. Offered: Fall, Spring

Interpersonal Communication COM201. This course is designed to improve human relationships through an understanding of the principles of effective interpersonal communication. Students participate actively in listening, perceiving, interpreting words and meanings, conflict resolution, assertiveness, nonverbal awareness, developing trusting relationships, and considering the role of the self-concept. Prerequisite: COM103 or ENL101 / 3 credits. Satisfies a Humanities & Fine Arts general education requirement. Offered: Fall, Spring

Small Group Communication COM202. Small group communication is a course designed to provide the student with an understanding of group dynamics, leadership skills, and decision-making and problem-solving models in a variety of small-group settings. Theoretical approaches are applied in practical situations, both in and out of the classroom. Prerequisite: COM103 or ENL101 / 3 credits. Offered: Fall

Argumentation and Debate COM207. This class provides an overview of the study of argumentation. Students learn argumentation theories and approaches while gaining skills in critical thinking and public speaking. By the end of the semester, students understand how to research and build an argument; how to anticipate, construct, and refute arguments; and how to evaluate the political, moral, and cultural contexts of argumentation. Prerequisite: COM103 or ENL101 / 3 credits; may be repeated once for credit. Satisfies a Humanities & Fine Arts general education requirement. Offered: Fall, Spring

Public Speaking COM203. A study of elements of public communication through various one-to-many speaking situations. Emphasizes include communication theory, speaker-audience relationships, speaker resources, speech construction, and delivery. Prerequisite: COM103 or ENL101 / 3 credits. Satisfies a Humanities & Fine Arts general education requirement. Offered: Fall

Persuasive Communication COM204. A study of the process of persuasion, focusing on the formation of beliefs, attitudes and values, fundamentals of attitude change, audience analysis, the persuasive message, effects of channel and setting, and source credibility. Opportunities are offered for classroom application of the principles and theories discussed. Prerequisite: COM103 or ENL101 / 3 credits. Satisfies a Humanities & Fine Arts general education requirement. Offered: Spring

Oral Interpretation/Readers Theater COM205. A performance course involving the analysis and aesthetic appreciation of literature (lyric, narrative, drama) through the medium of oral interpretation. This course incorporates techniques for control of self (body and voice), control of the literary object, control of the audience, and critique of solo and group performances. Rehearsals outside of class time may be required; please see instructor. Prerequisite: COM103 or ENL101 or THR103 / 3 credits. Offered: Spring

Communication in Current Settings COM206. This course addresses special topics of interest for students interested in the communication discipline. Course topics vary from semester to semester. Students are exposed to a diverse range of subject matter to provide familiarity with advanced theories and approaches in communication studies. Prerequisite: COM103 / 3 credits; may be repeated once for credit. Offered: Varies
Broadcast Writing and Presentation
COM208. This course is designed to give students a full understanding of how to write for broadcast media, and the skills needed to read copy on the air. Topics covered include news writing, sports writing, commercial writing, public service announcements, editorial writing, as well as questions of news standards, practices, and ethics. Students master writing on deadline, fact checking, and delivering copy in written and verbal form. **Prerequisite:** ENL101 / 3 credits. **Offered:** Fall

Event Planning
COM209. Students analyze ways in which organizations communicate their image and message through events and promotions. Students learn organizational communication theory as it relates to events planning and gain practice in planning, critiquing and analyzing events. **Prerequisite:** COM103 or COM201 or COM202 / 3 credits. Satisfies an Interdisciplinary Studies general education requirement. **Offered:** Varies.

Advanced Debate
COM213. This class is a continuation of COM207 Argumentation and Debate. It provides in-depth training in intercollegiate competitive debating. Students advance their skills in debate topic analysis and preparation and further strengthen their ability to build clear, organized, and coherent arguments. Students enrolling in this class are required to represent the debate club in various media contexts and/or public debates, as well as intercollegiate debate tournaments. **Prerequisite:** COM207 / 3 credits. **Offered:** Varies.

Advanced Radio Production
COM231. Building upon the skill based in COM113, students will learn advanced radio production skills. Advanced production techniques are discussed and applied to on-air and remote broadcasts. Students learn production software and automation broadcast software in regards to music / commercial programming and voice tracking. **Prerequisite:** COM113 / 3 credits. **Offered:** Spring

Mass Communication Cooperative Work Experience
COM262. This course is designed to expand student knowledge through actual work involvement within an area of mass communication. Working with a mentor and collaborating with an employer, the student will develop a list of learning objectives that will become an integral part of the experience. **Prerequisite:** COM105, 6 other hours from mass communication suggested sequence list, and permission of co-op coordinator / 1, 2, or 3 credits; may be repeated once; 6 credit maximum.

Computer Science

Computer Programming I: JAVA
CSC110. In this introduction to the field of computer science, students use hands-on projects and teamwork to design, implement, and test programs in Java which can be run on any Java-aware browser. Good programming style, expression, and documentation are emphasized. Object-oriented programming methodology, graphical user interfaces, debugging techniques, and string processing are covered. Java provides a good introduction to programming for students in any academic discipline. (This course does not satisfy the mathematics general education or CSI transfer requirements.) **Prerequisite:** MAT030 or satisfactory basic skills assessment score / 3 credits. **Offered:** Fall, Spring

Computer Programming I: C++
CSC120. In this introduction to the field of computer science, students use hands-on projects and teamwork to design, implement, and test programs in C++. Good programming style, expression, and documentation are emphasized. Object-oriented programming methodology, graphical user interfaces, debugging techniques, and string processing are covered. (This course does not satisfy the mathematics general education or CSI transfer requirements.) **Prerequisite:** MAT030 or satisfactory basic skills assessment score / 3 credits. **Offered:** Fall

Computer Programming II: JAVA
CSC130. Students use hands-on projects and teamwork to design, implement and test large computer programs in Java, with emphasis on good programming style, expression, and documentation. Object-oriented programming methodology, elementary data structures, internal searching and sorting methods, basic graphical animation techniques, exceptions, multithreading, and simple recursion are covered. Students analyze and implement several software development models. (This course does not satisfy the mathematics general education requirement. It does satisfy CSI transfer requirements.) **Prerequisite:** CSC110 / 4 credits. **Offered:** Spring

System Software and Assembly Language Programming
CSC210. Students analyze the design and implementation of the components of software used to run a computer including assemblers, compilers, linkers, loaders, operating systems, debuggers, and macroprocessors. The general concepts of system software are related to the specific implementation of Intel assembly language (MASM) and Java on a Windows system. Students use hands-on projects and teamwork to design, implement, and test programs in Intel assembly language and to use assembly language procedures in a Java program. (This course does not satisfy the mathematics general education requirement.) **Prerequisite:** CSC130 / 4 credits. **Offered:** Varies

Data Structures
CSC230. Through hands-on projects and teamwork, students learn to use data structures and recursion in Java and C++ programs. Abstract Data Types (ADTs) and the actual implementations of data structures including lists, stacks, queues, tables, heaps and trees are studied. Students analyze the theoretical and actual running times of various internal/external searching and sorting methods. Basic computer engineering principles are studied and implemented. (This course does not satisfy the mathematics general education requirement.) **Prerequisite:** CSC120 and CSC130 / 4 credits. **Offered:** Varies

Construction Technology

Quantitative Skills for Construction
CON100. This course applies fundamental mathematical skills and critical thinking to solve basic construction problems. A review of numbers, fractions, ratios, angles and triangles, weights, measures and conversions, and formulas for calculating area and volume are included. Problem solving uses cases that introduce concepts of the estimating process for selected parts of a construction project including lumber pricing, footings, foundations, girders, sills plates, bridging, floor joists, flooring, wall framing, and roofing. **Prerequisite:** MAT030 or satisfactory basic skills assessment score / 2 credits. **Offered:** Fall, Summer

Blueprint Reading: Construction Trades
CON101. This course introduces fundamentals of reading and interpreting construction documents including plan views, elevations, sections, details, schedules and notes. The symbols and language of construction are studied through the review and study of glossaries, legends and specifications. Application of the arithmetic of construction documents are included. **Prerequisite:** None / 3 credits. **Offered:** Spring
Materials of Construction
CON105. Students learn about basic construction materials including properties and limitations, fabrication processes, and their proper application in the construction of residential and small commercial buildings. Sustainability aspects of the materials are discussed as well as characteristics such as material strength, fire resistance, and code conformity. The course is directed to building technology students, the building trades, building supply personnel, local authorities as well as fire and public safety officials. Prerequisite: None / 3 credits. Offered: Fall

Construction Technology
CON110. This course gives the student a working knowledge of the operation of small commercial and residential construction firms. The objective is to prepare the student to assume greater responsibility in his or her present firm or to start a firm of their own. Topics covered include: record keeping, firm management principles, estimating, bidding, and subcontractor relations. Prerequisite: None / 3 credits. Offered: Fall, Summer

Construction Estimating and Practice
CON115. Students explore various systems and methods for estimating construction costs in all phases of residential and commercial buildings. Emphasis is placed on accurate preparation of bids and cost control. Checklists are used to ensure accuracy. Measurements and quantities from actual construction plans and specifications are utilized for all estimating work. Prerequisite: None / 3 credits. Offered: Fall

Understanding and Working with the Massachusetts State Building Code
CON120. Students develop an in-depth working knowledge of the Massachusetts State Building Code, and learn to interpret and apply the code requirements. The course is designed for the general building contractor, for persons engaged in the design and construction of buildings, and for code enforcement officials and firefighters. This course and CON110 may be helpful in obtaining information and skills necessary to pass the Massachusetts Construction Supervisors Exam. Prerequisite: None / 3 credits. Offered: Fall

Architectural Drafting and Construction Drawing
CON125. This course is intended to provide students with practical experience in preparing working drawings for building construction. This course utilizes concepts developed in CON130 and CON101. A complete set of working drawings are prepared over the course of the semester. Prerequisite: CON101 and CON130 / 3 credits. Offered: Varies

Computer Aided Drafting I
CON130. This course is a first course in computer aided drafting including an introduction to AutoCAD, drawing, editing drawings, applications, using advanced functions, producing hardcopy, and customizing AutoCAD. The emphasis of this course is in developing drafting techniques using the computer as the drafting tool. Specific topics include system set up, 2-D drawing, editing drawings, multiview drawing, orthogonal views, dimensioning, sectional views, and graphic patterns. Prerequisite: None / 3 credits. Offered: Fall, Spring, Summer

Computer Aided Drafting II
CON135. This course is a second course in computer aided drafting. Abrief review of CON130 is followed by the following topic development: threads and fasteners, auxiliary views, revolutions, shop processes, working drawings, isometric and three dimensional drawings, rendering, and expanding AutoCAD applications. Prerequisite: CON130 / 3 credits. Offered: Spring

Architectural Computer Aided Drafting I
CON225. This course develops a student’s architectural drafting techniques utilizing personal computers as the tool for the computer aided design (CAD) system. Residential construction is the focus in drawing tasks. Students review CAD techniques, draw building elevations and plan individual rooms by drawing walls, doors and windows. Students use accepted conventions for lettering, dimensioning, noting and titling. Prerequisite: CON130 / 3 credits. Offered: Fall

Criminal Justice

Substantive Criminal Law
CRJ101. This course is a survey of criminal law and evidence with emphasis on Massachusetts laws and recent court rulings. Prerequisite: None / 3 credits. Offered: Fall

Procedural Criminal Law
CRJ102. This course emphasizes the evolution of due process as it affects functions and duties of law enforcement officers. Prerequisite: None / 3 credits. Offered: Spring

Criminology, Theory and Practice
CRJ105. This course provides a general overview of the major theories of crime and criminal behavior, as well as the scope and nature of the criminal justice system and the problem of crime. Prerequisite: None / 3 credits. Satisfies a Behavioral & Social Sciences general education requirement. Offered: Fall, Spring

Introduction to Corrections
CRJ116. This course is a general overview of corrections in the United States today, concentrating on the history, organization and administration of corrections, as well as sentencing, corrections law, career issues, tactical operations and the future of corrections. Prerequisite: None / 3 credits. Offered: Spring

Contemporary Policing
CRJ125. This course is a general overview of policing in the United States today, concentrating in history, organization - public and private - as well as personal issues, police operations, and critical and emerging issues. Prerequisite: None / 3 credits. Offered: Fall, Spring

Criminal Evidence
CRJ130. This course is designed to introduce the basic concepts of criminal evidence as applied in the criminal justice environment. It includes a description of the trial process and types of evidence. The course presents principles relating to the United States Constitution and those principles relating to the law enforcement professional as a witness. Prerequisite: None / 3 credits. Offered: Fall, Summer

Terrorism
CRJ135. This course acquaints students with the concept of terrorism at both the international and domestic level, examining the history of terrorism, terrorism today, and terrorism in the future. Prerequisite: ENL050 or satisfactory basic skills assessment score / 3 credits. Offered: Spring, Summer

Principles of Investigation I
CRJ206. This course examines the organization and functions of investigative agencies, preparation and presentation of accurate written and verbal reports, courtroom presentation of evidence, and elements of legal proof. Prerequisite: All Level I Criminal Justice courses / 3 credits. Offered: Fall

Principles of Investigation II
CRJ207. This course is a continuation of CRJ206. It introduces the students to the collection, presentation, and analysis of physical evidence, and investigation of specific offenses. Prerequisite: CRJ206 and all Level I Criminal Justice courses / 3 credits. Offered: Spring
Ethical Issues in Criminal Justice
CRJ210. This course will examine ethical principles as they apply to the many practical problems which confront criminal justice professionals in the performance of their duties and responsibilities. Wherever possible, concrete case studies are used to illustrate ethical reasoning. 
Prerequisite: All Level I Criminal Justice courses / 3 credits. 
Offered: Fall, Spring

Crisis Intervention for Criminal Justice Professionals
CRJ220. This course explores the relationships of police and crisis intervention. Special emphasis is placed upon the development and utilization of helping skills in dealing with crisis situations. 
Prerequisite: All Level I Criminal Justice courses / 3 credits. 
Offered: Fall

Juvenile Justice
CRJ221. This course is designed to introduce students to the Juvenile Justice system, the processes and the law pertaining to the system by presenting a thorough examination of the social, historical, and legal context within which delinquency and Juvenile Justice practice occurs. 
Prerequisite: All Level One Criminal Justice Courses / 3 credits. 
Offered: Spring

Selected Issues in Criminal Justice
CRJ240. The course seeks to explore issues that are currently facing the criminal justice system. This course introduces the student to human and cultural relations that affect the criminal justice system. 
Prerequisite: All Level I Criminal Justice courses / 3 credits. 
Offered: Spring

Criminal Justice Cooperative Work Experience
CRJ261. A supervised work/learning experience in a local criminal justice agency combined with a seminar component for student feedback and evaluation. Limited to students enrolled in the Criminal Justice program. Required for all Criminal Justice majors. 
Prerequisite: All Level I Criminal Justice courses / 3 credits; may be repeated once. 
Offered: Fall, Spring, Summer

Culinary Arts
Refer to Hospitality Management.

Dance
Refer to Theater and Dance.

Dental Hygiene

Oral Tissues I
DEN101. In this course, designed for first semester dental hygiene students, the student learns the basic anatomy of the teeth and dental nomenclature. This study is further developed by concentrating on functions and forms of teeth with emphasis on eruption dates of both primary and permanent dentitions and root morphology of permanent teeth. An introduction to general histology and embryology of the face and oral cavity completes the course. 
Prerequisite: MAT030, ENL020 and ENL050 or satisfactory basic skills assessment scores and CHM109 or equivalent / 2 credits. 
Offered: Fall

Oral Tissues II
DEN102. In this course, designed for second semester dental hygiene students, the student learns the basic histology of the teeth and supporting structures of the oral cavity. The second part of the course covers anatomy of the head and neck with emphasis on bones of the skull, muscles, nerves, and blood supply to the oral structures. 
Prerequisite: DEN101 / 2 credits. 
Offered: Spring

Principles of Oral Radiology
DEN103. This course provides the student with information concerning: principles of x-radiation; components of the x-ray tube; equipment usage, safety, and maintenance; parallel/bisecting-angle and special patient techniques; digital radiography; radiographic interpretation; manual/automatic processing; and infection control information. 
Lab experience includes: parallel and bisecting-angle technique; digital radiography; panoramic; special patient techniques with automatic and manual processing equipment. 
(2 class hours / 3 laboratory hours) 
Prerequisite: MAT030 and CHM109 / 3 credits. 
Offered: Fall

Community Dental Health
DEN105. Community Dental Health is the science and art of promoting oral health and preventing dental disease in a community setting. Through this course, the student acquires the knowledge, attitudes, skills, and behaviors necessary to promote dental health and prevent dental disease through organized community-based programs. 
Students are introduced to basic principles of research methodology and biostatistics, epidemiological indices, population needs, and community health planning methods for dental education of the public. 
Prerequisite: DEN123 and DEN128 / 2 credits. 
Offered: Spring

Dental Hygiene I
DEN121. This first course introduces the student to the profession of dental hygiene, the dental hygiene code of ethics, principles of infection and exposure control, and the CDC Bloodborne Pathogens Standard. The dental hygiene process of care with an emphasis on the assessment phase is presented. Oral hard and soft deposits are discussed along with an introduction to safety and emergency procedures. Additionally, oral health education and oral physiotherapy techniques are introduced. 
Prerequisite: MAT030, ENL020 and ENL050 or satisfactory basic skills assessment score and CHM109 / 2 credits. 
Offered: Fall

Dental Hygiene II
DEN123. This course continues the study of the dental hygiene process of care begun in DEN121. The dental hygiene diagnosis and treatment care plan are introduced as well as specific treatment modalities. Emphasis is placed on the dental hygiene care and management of patients at each life stage and the management of the medically compromised patient. Additionally, individuals with physical, sensory and mental disabilities are studied. 
Prerequisite: DEN121 / 2 credits. 
Offered: Spring

Clinical Dental Hygiene I
DEN125. The principles, protocols and components of the dental hygiene process of care described in DEN121 are applied in a pre-clinical setting. Additionally, ergonomics, patient/operator positioning, selective polishing and instrumentation skills with assessment and debridement instruments are introduced and practiced on both typodonts and student partners. Instrument sharpening skills are developed. 
Prerequisite: MAT030, ENL020 and ENL050 or satisfactory basic skills assessment scores / 3 credits. 
Offered: Fall

Clinical Dental Hygiene II
DEN128. Previously acquired knowledge, skills and values applicable to comprehensive dental hygiene care are reviewed. Components of the dental hygiene process of care presented in Dental Hygiene II are applied in a clinical setting. The primary focus of this course is for students to increase and refine their skills in the areas of assessment, dental hygiene diagnosis, care planning, implementation and evaluation while providing comprehensive care to patients of various population groups in a safe and ethical manner. 
Prerequisite: DEN121 and DEN126 / 4 credits. 
Offered: Spring
Pharmacology for Dental Hygiene
DEN200. This course addresses the basic principles of pharmacology and anesthesiology and applies this knowledge to the treatment of dental hygiene patients. The student applies the knowledge of drugs, their actions, and the use of the drugs used in dentistry and their impact on patients. The course content includes the physical and chemical properties, preparations, mode of administration, and effect on body systems, as well as reference to medical emergencies associated with dental treatment. Prerequisite: DEN121 or permission of the instructor / 3 credits. Offered: Spring

Oral Pathology
DEN205. This course incorporates important aspects of general pathology and their relationship to the oral cavity. The course stresses comprehensive oral examination procedures, recognition of deviations from the normal, and clinical aspects of pathological processes affecting the patient as a whole and the oral cavity. Prerequisite: DEN121 and DEN126 / 3 credits. Offered: Spring

Dental Materials
DEN209. A study of the science of dental materials including the physical, chemical, and biological properties, manipulation, and care of materials used in the prevention and treatment of oral disease. The scientific and clinical properties of gypsum materials, impression materials, waxes, porcelain, dental abrasives, cements, resins, and metals used in dentistry are discussed in lecture and manipulated in laboratory sessions with special emphasis on the materials within the scope of the practice of Dental Hygiene. (2 class hours / 3 laboratory hours) Prerequisite: CHM109 and DEN101 / 3 credits. Offered: Fall

Periodontics
DEN211. This course is an advanced study of the periodontium and its relationship to clinical practice. Incorporating current research, emphasis is placed on the pathogenesis of periodontal disease, the relationship between periodontal health and systemic health, risk factors, methods of assessment, and current therapies for treatment and maintenance of the periodontal patient. Prerequisite: DEN123 and DEN128 / 2 credits. Offered: Fall

Dental Hygiene III
DEN230. Advanced procedures and related specialties are discussed and integrated into the clinical experience. Some of the topics that are discussed include implants, dental specialties, health promotion, risk assessment, and the use of advanced technologies in dental hygiene practice. Prerequisite: DEN123 and DEN128 / 2 credits. Offered: Fall

Clinical Dental Hygiene III
DEN236. This course, designed for third semester dental hygiene students, consists of clinical sessions in which advanced clinical procedures and advanced radiographic procedures are integrated into the clinical experience. Prerequisite: DEN123 and DEN128 / 4 credits. Offered: Fall

Dental Hygiene IV
DEN232. In lecture, the students are introduced to areas of private practice: ethics, practice acts, national and regional licensure, professional organizations, practice management, recalls and computer use. Discussions will include resume writing, the job interview and the future of dental hygiene. Prerequisite: DEN230 / 2 credits. Offered: Spring

Pain Management in Dental Hygiene Practice
DEN237. This course provides a comprehensive study of local dental anesthetics administered in the dental hygiene profession. Utilizing lecture and lab components, the student learns to safely administer topical and local dental anesthetics. This course covers Massachusetts Rules and Regulations 234CMR3.09-3.14, and the requirements in the administration of local dental anesthetics. Prerequisite: DEN123 and DEN129 / 2 credits. Offered: Fall

Clinical Dental Hygiene IV
DEN238. This course, designed for fourth semester dental hygiene students, consists of clinical sessions which provide further refinement of clinical skills emphasizing the role of expanded duties in therapy, prevention, and control of periodontal disease. Prerequisite: DEN230 and DEN236 / 4 credits. Offered: Spring

Developmental Education - English
Developmental education credits cannot be counted in the determination of the academic credits required for the A.A. and A.S. degrees.

Students whose first language is not English and whose basic skills assessment scores place them into developmental / English courses are advised to consider enrolling in the appropriate ESL course. Please refer to English for Speakers of Other Languages/English for Academic Purposes (ESOL/EAP) on page 154 of this catalog.

Preparation for College Reading
ENL010. This course is the first course in a two-course sequence designed for the entering college student whose reading comprehension skills are at a pre-college level. Vocabulary development is an integral component of this course. Students become effective learners by reading regularly, making oral and written responses to readings, having class discussions, and learning to self-monitor their comprehension. Prerequisite: Recommendation by basic skills assessment score. Letter grade or Pass-Fail / 3 non-degree credits. Offered: Fall, Spring

College Reading and Study Skills
ENL020. This course is the second course in a two-course sequence designed to prepare students for the demands of collegiate study. Students read from textbooks, novels, expository works, and media (newspapers, magazines). Students practice the following study skills: reading comprehension monitoring, systematic approaches to textbook study, listening, note taking and preparation for test taking. Prerequisite: Appropriate score in Reading Comprehension on the Computerized Placement Test or a grade of C or better in ENL010. Letter grade or Pass-Fail / 3 non-degree credits. Offered: Fall, Spring

Essential Writing Skills
ENL040. This course is designed for the student who requires writing skills essential for academic and career success. Basic sentence level skills such as sentence formation, punctuation, and sentence combination will be emphasized within the context of paragraph development. Prerequisite: Placement test score of greater than or equal to 40 on Reading Comprehension and less than or equal to 53 on Sentence Skills / 3 non-degree credits. Offered: Fall, Spring

Sentence Strategies
ENL045. This is an intensive developmental writing course focusing on eliminating certain repeated errors appearing in adult Standard American English (SAE) writing, particularly in the following areas: sentence types and expanded combinations including relevant punctuation, subject-predicate and pronoun agreements, work order. Students engage in intensive practice using sentences as independent structures and within paragraphs and short essays. Prerequisite: Appropriate CPT score (RC66+, SS 68-87), instructor’s screening / 2 non-degree credits. Offered: Varies
Foundations in Writing
ENL050. This course is a one-semester course in which students develop and demonstrate knowledge of fundamental composing processes by composing paragraphs and essays, mastering basic sentence types and construction, and using standard American English grammar, usage and mechanics. Prerequisites: Appropriate score on the sentence skills assessment or a grade of C or better in ENL040 and appropriate score on the reading skills assessment or a grade of C or better in ENL010. Letter grade or Pass-Fail / 3 non-degree credits. Offered: Fall, Spring, Summer

Developing Vocabulary
ENL080. This mini-course is designed to expand the students' general vocabulary and provide intensive practice in major skills of word attack through structural analysis and contextual clues. Prerequisite: None. Pass-Fail / 1 non-degree credit. Offered: Varies

Better Spelling
ENL081. This mini-course is designed for the student whose spelling problems interfere with efficient written communication. The course focuses sharply on the most troublesome areas in words used every day. Students learn to use spelling patterns and principles along with other specific aids for words classified as exceptions to basic principles. Prerequisite: None. Pass-Fail / 1 non-degree credit. Offered: Varies

Study Skills
ENL082. This mini-course is designed to help students understand more about their learning styles, improve their study skills and develop the self-discipline they need to be successful college students. This concise, practical course focuses on the key skills essential to college success: listening, note taking, reading, writing and taking exams. Prerequisite: None. Pass-Fail / 1 non-degree credit. Offered: Varies

Basic Grammar Review
ENL083. This mini-course helps students understand the basic structure of English grammar and punctuation. This course focuses on key elements of grammar and punctuation. Prerequisite: None. Pass-Fail / 1 non-degree credit. Offered: Varies

English as a Second Language I
ESL010. Refer to English for Speakers of Other Languages.

Developmental Education - Math

Fundamental Arithmetic
MAT010. A mastery-based course in basic arithmetic operations and techniques designed to provide a thorough coverage of whole number arithmetic, fractions, and decimals. Applications are used extensively to develop problem-solving techniques. The course focuses on basic computational skills, study skills, and background needed to succeed in subsequent courses. Students use the language of arithmetic to understand basic arithmetic vocabulary and to read/write simple quantitative statements. Prerequisite: None. Recommendation by basic skills assessment score. Letter grade or Pass-Fail / 3 non-degree credits. Offered: Fall, Spring, Summer

Preliminary
MAT020. A mastery-based introductory course in algebra designed to help prepare students for the study of elementary algebra. Topics include: a review of whole numbers, fractions, decimals, percents, exponents, followed by signed numbers, an introduction to algebra, ratio, proportion and measurement, geometry. An emphasis is placed on "word problems" solutions. Letter grade or pass-fail. Prerequisite: MAT010 or satisfactory basic skills assessment score. Letter grade or Pass-Fail / 3 non-degree credits. Offered: Fall, Spring, Summer

Elementary Algebra
MAT030. A mastery-based introductory course in algebra designed to help students prepare for intermediate algebra. Topics covered include: properties and operations on real numbers, linear equations, ratio and proportion, percents, geometric figures, graphing, linear systems, exponents, polynomial, factoring and the development of word problem analysis and solution. This course uses a mastery-based approach. Prerequisite: MAT020 or satisfactory basic skills assessment score. Letter grade or Pass-Fail / 3 non-degree credits. Offered: Fall, Spring, Summer

Intermediate Algebra
MAT040. A course in intermediate algebra designed to help prepare students for non-precalcus track mathematics. Topics include: factoring, rational expressions, rational exponents and roots, quadratic functions, variation, conic sections, relations and functions, exponential functions, and the development of word problem analysis and solution. Prerequisite: MAT030 or satisfactory basic skills assessment score. Letter grade or Pass-Fail / 3 non-degree credits. Offered: Fall, Spring, Summer

Early Childhood Education

Introduction to Young Children with Special Needs (Birth-8 years)
ECE105. This course focuses on children with special needs in early childhood settings. Based on a developmental perspective, course content includes the various areas of exceptionality in terms of causes, characteristics and general intervention, strategies for adapting the learning environment, modifying instruction and making curriculum accessible to all children through inclusion of those with special needs. Attention is given to State and Federal Legislation, the referral process, community resources, and effective ways to work with families. (6 hours observation/field work per semester) Prerequisite: ECE100 or PSY201 / 3 credits. Offered: Fall, Spring

Child Growth and Development

ECE110. This course examines child development from conception to age 9 by considering the complex interaction between heredity and environmental factors. Children's physical, social, emotional, and cognitive development are discussed, as well as implications for developmentally appropriate practice. It includes the theories of Erikson, Piaget, and Vygotsky. Students are required to observe children in a child care setting. This course is restricted to applicants for State certification as a teacher of infants, toddlers, and/or preschool children. Prerequisite: None / 3 credits. Offered: Fall, Spring, Summer
Literacy and the Young Child
ECE115. This course describes how children acquire language and literacy, and how teachers can design classrooms and experiences to promote oral and written language development. The course stresses planning for individual children, including children with special needs and English language learners, as well as understanding the importance of the child’s family in language and literacy development. (6 hours observation/field work) Prerequisite: None / 3 credits. Offered: Fall, Spring

Teaching Infants and Toddlers
ECE200. This course emphasizes the development needs of infants and toddlers. Special focus includes planning curriculum for the very young, working with parents, special development needs of infants and toddlers, and planning their environment. (6 hours observation/field work) Prerequisite: ECE201 or ECE100 / 3 credits. Offered: Spring

Preschool Curriculum Planning
ECE201. This course explores curriculum planning for inclusive preschool settings. Participants develop a framework for planning, implementation, organization, and evaluation of activities in content areas such as art, math, science, music, language arts, and free play. The course emphasizes high-quality, developmentally appropriate practice, aligned with state and national standards and guidelines. (10 hours observation/field work) Prerequisite: ECE100 or PSY201 / 3 credits. Offered: Fall, Spring

Advanced Curriculum Development: Creative Experiences for Early Childhood Education
ECE202. Experiences at both the adult and child level designed to help students understand the creative process and appropriate ways of encouraging creativity in young children in inclusive settings. Students are required to try out their ideas with children. The emphasis is on art, as well as science, math, language arts, music, movement, and dramatic play. The course also explores the influence of international models, such as Reggio Emilia. (6 hours observation/field work) Prerequisite: ECE201 / 3 credits. Offered: Fall, Spring

Field Experience in Early Childhood Education
ECE206. This course gives students the opportunity to complete supervised field hours in a licensed and approved early childhood education setting. The course emphasizes high-quality developmentally appropriate practice, aligned with state and national standards and guidelines, including the National Association for the Education of Young Children (NAEYC) Professional Development Standards. Students must submit a CORI application prior to beginning the lab hours. (20 hours observation/field work, 5 class hours) Prerequisite: ECE100 and ECE200 or ECE201 / 1 credit; may be repeated for a maximum of 3 credits. Offered: Fall, Spring

Curriculum Strategies for Teaching Math and Science to Young Children
ECE211. Explore strategies, activities, and materials for teaching math and science to children in inclusive preschool and kindergarten settings. The course focuses on state and national standards and guidelines, as well as the constructivist approach to teaching science and math. (6 hours observation/field work) Prerequisite: PSY201 / 3 credits. Offered: Varies

Classroom Management: Skills and Strategies for Early Childhood Teachers
ECE221. This course explores classroom management strategies for inclusive toddler, preschool, and after-school settings; including creating a pro-social environment, resilience and risk factors, and using a positive, respectful approach to guiding children based on knowledge of child development. (6 hours observation/field work) Prerequisite: PSY201 or ECE110 / 3 credits. Offered: Fall, Spring

Practicum in Early Childhood Education Preschool
ECE230. This course provides the student with the opportunity to work directly with infants, toddlers, or preschool children in an inclusive early childhood education program. Coursework includes 150 hours (12 hours/week minimum) working in a Massachusetts licensed or NAEYC accredited child care facility, as well as a weekly seminar class. The practicum meets state requirements for 9 months child care experience. (150 field work hours; 14 class hours) Prerequisite: ECE105, ECE201, PSY201, (ECE200 or ECE202) & a minimum 2.0 GPA in ECE courses / 6 credits. Offered: Fall, Spring

Selected Topics in Early Childhood Education
ECE242. This course serves as a vehicle to either deepen students’ knowledge of subjects addressed in Early Childhood Education introductory courses or explore issues outside the traditional curriculum. Prerequisite: Any introductory-level social and/or behavioral science course / 1, 2, or 3 credits; may be repeated for credit; 3 credits maximum. Offered: Fall, Spring, Summer

Administration of Early Childhood Programs
ECE290. This course is designed to guide Early Childhood professionals in establishing or reinforcing existing programs for young children, to give a working knowledge of the concepts, ideas and methods necessary to administer these programs, including Mass. Dept. of Early Education and Care (EEC) regulations, budgets, and other financial issues, legal issues, family communication, and staff issues (hiring, firing, supervision, turnover, training). Meets EEC requirements for Director I. Note: Students should contact the Early Childhood Education Coordinator prior to registering for this course. Prerequisite: ECE201 or ECE202 or ECE221 or ECE230 or ECE291 / 3 credits. Offered: Fall

Leadership and Management in Early Childhood Education
ECE291. This course explores administrative issues relating to leadership in Early Childhood Education: management styles, staff development and supervision including teacher training, staff collegiality, retention and evaluation, as well as collaboration with parents and community. This course meets Director II specifications for EEC certification. Prerequisite: ECE110 or PSY201 / 2 credits. Offered: Spring

Earth Science
Introduction to Earth Science
ESC101. This is a one-semester, liberal arts and sciences course with a laboratory, designed to introduce the concept that planet Earth represents a dynamic, integrated system. The nature and characteristics of the atmosphere, lithosphere, hydrosphere, and biosphere are considered. (3 class hours / 2 laboratory hours) Prerequisite: MAT030, ENL020, and ENL050 or satisfactory basic skills assessment scores / 4 credits. Satisfies a Natural or Physical Science general education requirement. Offered: Fall, Spring
Fundamentals of Oceanography
ESC105. A general introduction to the scientific study of the ocean environment including the physical, chemical, geological and biological properties of the sea. Some field trips may be required. This course is intended for non-science majors. (3 class hours / 2 laboratory hours) Prerequisite: MAT030, ENL020, and ENL050 or satisfactory basic skills assessment scores / 4 credits. Satisfies a Natural or Physical Science general education requirement. Offered: Fall, Spring, Summer

Economics

Principles of Macroeconomics
ECO117. This course is an introduction to the principles of macroeconomics including current economic problems, national income, employment, prices, monetary and fiscal policy to stabilize the economy. Emphasis is given to economic growth and the international economy. Prerequisite: None / 3 credits. Satisfies a Behavioral & Social Sciences general education requirement. Offered: Fall, Spring, Summer

Principles of Microeconomics
ECO118. Principles of microeconomics including functioning of competitive and non-competitive markets, price and wage theory, labor and agricultural economics, income distribution, and comparative economic systems. Prerequisite: None / 3 credits. Satisfies a Behavioral & Social Sciences general education requirement. Offered: Fall, Spring, Summer

Investments
ECO119. The course is intended to provide the student with an introductory fundamental understanding of the theoretical and practical concepts of investments. Areas that are covered are valuations of securities and debt instruments, risk/reward in decision making, construction of portfolios, and practical applications in investment strategies. The course enables the student to prepare for a career in finance, as well as to learn how to make rational decisions for personal investing. Prerequisite: MAT030 / 3 credits. Offered: Varies

Emerging Markets Economies
ECO155. This interdisciplinary, hands-on course is designed to provide students with the understanding of the workings of the economy and the financial markets. It acquaints students with the tools and concepts of finance and macroeconomics and the ability to apply them to study the stock markets in an emerging economy. Prerequisite: None / 3 credits. Satisfies a Behavioral & Social Sciences general education requirement. Offered: Fall, Spring

Global Economics
ECO157. This course is designed to introduce students to contemporary global economic issues, as well as economic tools necessary to analyze them. Primary focus of the course addresses international trade while emphasizing the importance and practical applicability of related issues in international finance and international relations in day-to-day life. Prerequisite: None / 3 credits. Satisfies a Behavioral & Social Sciences general education requirement. Offered: Spring

Environmental and Natural Resources Economics
ECO160. This course uses the basic tools of economic analysis to focus on issues pertaining to the natural environment and its resources. The topics covered include economic externalities, public goods, property rights, market failure, air and water pollution, solid waste management, sustainability concepts, the role of government, and benefit-cost analysis in social planning. Prerequisite: None / 3 credits. Offered: Fall

Education

Foundations of Education
EDU101. This course examines the philosophical, sociocultural, historical, political, and developmental foundations of elementary education in the United States, as well as current issues and future trends. A 40-hour field-based experience in an elementary classroom (grade 1-6) is required. This course meets state Elementary Education Transfer Compact requirements. Students enrolling in this course must undergo a CORI (Criminal Offender Record Information) check. (2 class hours / 40 field hours) Prerequisite: ENL010 and ENL050 or satisfactory basic skills assessment score / 3 credits. Offered: Fall

English

Also see Developmental Education, English for Speakers of Other Languages, Journalism, and Literature.

Course descriptions for the following courses are listed under Developmental Education.
ENL010. PREP for College Reading
ENL020. College Reading and Study Skills
ENL040. Essential Writing Skills
ENL045. Sentence Strategies
ENL050. Foundations in Writing
ENL080. Developing Vocabulary
ENL081. Better Spelling
ENL082. Study Skills
ENL083. Basic Grammar Review

Course descriptions for the following courses are listed under English for Speakers of Other Languages (ESOL).
ESL010. English for Speakers of Other Languages I: Basic
ESL012. English for Speakers of Other Languages II: Intermediate
ESL201. English for Speakers of Other Languages III: Advanced

English Composition I
ENL101. ENL101 is an introductory college composition course required of all students and prerequisite to all other college-level English courses. It is designed to help students develop and express ideas clearly and effectively using Standard American English through frequent writing and the study of rhetorical patterns of development. Students learn to write MLA style document essays. Prerequisite: Appropriate scores in Reading Comprehension and in Sentence Skills on Computerized Placement Test or grade of C or better in ENL020 and ENL050 or ESL201 / 3 credits. Satisfies the English Composition/Writing general education requirement. Offered: Fall, Spring, Summer

English Composition II
ENL102. A continuation of ENL101, this course is required of all Associate in Arts students and a prerequisite to all 200-level English courses. This course focuses on reading, analyzing, and writing about literature and is designed to help students refine writing skills developed in ENL101. Prerequisite: A grade of C or higher in ENL101 / 3 credits. Satisfies either an English Composition/Writing or Humanities & Fine Arts general education requirement. Offered: Fall, Spring, Summer
Language in Society
ENL106. Students are introduced to the origin of language and languages. Topics of study: causes of change and variation in language, history of the English language, the anatomy of language and its role in society including semantics, non-verbal communication, bilingualism, and origins of written language. Prerequisite: ENL101 / 3 credits. Offered: Varies

Critical Reading and Thinking
ENL108. This course guides students to enhance their comprehension of written, spoken, and visual information by improving their critical thinking abilities. Through practicing habits of mind to strengthen analytical and reasoning skills, students learn to form well-supported arguments, draw thoughtful conclusions, make responsible decisions, and transfer acquired skills to their academic, professional, and personal life. Prerequisite: ENL020 or satisfactory basic skills assessment score / 3 credits. Satisfies a Humanities & Fine Arts general education requirement. Offered: Fall, Spring

Technical Writing
ENL131. This course is designed for students who have acquired basic writing skills and who seek further experience in the collection, organization, and communication of information from their specific career fields. Prerequisite: ENL101 / 3 credits. Offered: Varies

Cod Tales: Writing About Cape Cod
ENL147. This feature-writing course is based on Eliot Wigginton’s “Foxfire” Appalachian experience, and involves students writing about their area’s history. Articles written by students in Cod Tales will focus on Cape Cod’s history, from pre-Columbian to today. The Nickerson Room will provide valuable information for writings, as will interviews with Cape Cod residents, especially senior citizens. Course goals include publication of student writings in the MainSheet or other Cape Cod publications. Prerequisite: ENL101 / 3 credits. Offered: Varies

Journalism I
ENL161. This course is designed to instruct the student in the collecting, writing, editing, and publishing of news and feature articles in periodicals. Although weekly lecture and discussion periods will be mandatory, the emphasis in the course will be on writing news stories outside of regular class time. Each student in the course is expected to be involved in the student newspaper. Word processing is used. Prerequisite: ENL101 / 3 credits. Satisfies a Humanities & Fine Arts general education requirement. Offered: Fall, Spring

Journalism II
ENL163. This course, a continuation of ENL161, puts the emphasis on an analysis of the elements of journalism and the writing of feature stories, interviews, human interest stories, and various other kinds of reporting. Students in this course will learn to proofread, edit, and layout final copy for the MainSheet or other mass media. Prerequisite: ENL161 / 3 credits. Offered: Fall, Spring

History of the English Language
ENL175. This course is designed to explain the historical events which led to the formation of Modern English and to understand the causes of change within the language as it evolved. Course content includes an overview of the movement of the Indo-European mother tongue to the Germanic base of Modern English, a study of the contributions of the Scandinavian and Norman French languages, and descriptions of the causes of change in semantics, pronunciation and spelling. Prerequisite: ENL101 / 3 credits. Offered: Varies

Creative Writing
ENL209. An advanced workshop for students seriously interested in writing for publication. Techniques in short fiction and non-fiction, marketing non-fiction, and the building of a creative imagination will be systematically explored. Prerequisite: ENL102 / 3 credits; may be repeated once for credit. Offered: Fall, Spring

Poetry Writing
ENL213. This poetry writing workshop class provides serious students the opportunity to write poetry of their own and explore poetry through reading other’s work. Students write, read, peer edit/critique, present and listen to poetry. Prerequisite: ENL102 / 3 credits. Offered: Spring

Advanced Research Report Writing
ENL216. This course focuses on methods for organizing information, for analytically structuring complex issues, and the logic for making persuasive arguments. Students select topics of interest to them -- ranging from studies they have wanted to pursue to projects in their academic specialization. The instructional approach is highly individualized. Seminars center around issues of global significance. The tangible goal is to produce a portfolio piece. Prerequisite: ENL102 / 3 credits. Offered: Varies

Selected Topics in Writing
ENL291. Selected Topics in Writing provides students the opportunity to explore and practice extensive writing within a writing specialty. Topics may include, among others, writing about photography, writing feature stories, writing commentary and opinion, writing about sports, writing poetry, or writing for children. The course is writing intensive. Specific content depends on the specialty chosen. Prerequisite: ENL102 / 3 credits; may be repeated once for credit. Offered: Varies

Peer Tutorial Practicum (Language and Literature)
ETU100. This is a training course for peer tutors. Through readings, journal responses, discussions, and practical experience, the course introduces students to the theories used in writing center work as well as the practical application of those theories. Tutors will peer-critique, self-monitor, and tutor. The main objective is for students to become effective peer tutors and better writers. Prerequisite: Faculty recommendation and B+ or higher in a composition course / 1, 2 or 3 credits; may be repeated for credit; 3 credits maximum. Offered: Varies

Reading Tutorial Practicum
ETU101. In this two-semester course, students participate in a comprehensive training experience designed to thoroughly familiarize them with the tutoring process by means of videotape viewing, readings, discussion, and supervised practicum in the local elementary schools. (One credit (15 hrs): 6 classroom hours, 9 tutoring hours. Two credits (30 hrs): 6 classroom hours, 24 tutoring hours. Three credits (45 hrs): 6 classroom hours, 39 tutoring hours. Once a student has completed the six classroom hours of instruction in one semester, subsequent enrollment in the Reading Tutorial Practicum consists of 15, 30, or 45 supervised tutorial hours with no further formal classroom hours necessary. (Students may receive work-study money if they qualify.) Prerequisite: Faculty recommendation and CORI/SORI clearance (refer to page 7) / 1, 2, or 3 credits; may be repeated for credit; 3 credits maximum. This is a two-semester course; credits are earned at the completion of the second semester. Offered: Fall-Spring
Research Monitors (ELL) Methods and Strategies for the Classroom

ETU110. This course is designed to: provide in-service training in English as a Second Language, classroom methods and strategies for both ESL teaching assistants and mainstream classroom teachers; create a cadre of ESL teaching assistants to support Limited English Proficient (LEP) students; and, model appropriate methods, techniques and strategies for supporting the learning of newcomer and immigrant students in the classroom. Prerequisite: Satisfactory score on CPT or satisfactory completion of ENL050 / 3 credits. Offered: Varies

English for Speakers of Other Languages/English for Academic Purposes (ESOL/EAP)

English for Speakers of Other Languages I: Basic ESL010. This course introduces the literate non-native speaker of English to the four skills — reading, writing, speaking and understanding spoken English — to develop a basic command of Standard American English. Prerequisite: None / 4 non-degree credits. Offered: Fall, Spring

English for Speakers of Other Languages II: Intermediate ESL102. This course is a continuation of ESL010 and provides the intermediate level non-native English speaker with instruction in reading, writing, speaking, and understanding spoken English. Emphasis is placed on developing the ability to read and discuss material at the sixth through tenth grade level in English; ability to recognize and produce correct patterns in sentences and paragraphs; and the ability to combine paragraphs into correct and coherent compositions. Prerequisite: ESL010 or satisfactory basic skills assessment score / 3 credits. Offered: Fall, Spring

English for Speakers of Other Languages III: Advanced ESL201. This course is a continuation of ESL102 and provides the advanced level non-native English speaker with instruction in reading, writing, and discussing academic English. Emphasis is placed on developing the ability to read and write academic essays and to discuss materials written at the college level. Prerequisite: A grade of C or better in ESL102 or satisfactory basic skills assessment score / 3 credits. Offered: Fall, Spring

Environmental Technology

Survey of Environmental Technology ENV101. A history of Environmental Technology will be presented with emphasis on the current applications of the best available technology. The diverse environmental career opportunities will be presented through field trips and guest speakers. Prerequisite: None / 3 credits. Offered: Fall, Spring

Quantitative Methods for Environmental Analysis ENV105. Designed for environmental technology students. Emphasis is on mathematical skills essential in scientific applications. Mathematical and statistical skills using a scientific calculator and computer are used to assess current environmental data sets. Conclusions are drawn based on these data assessments. Prerequisite: MAT030 / 3 credits. Offered: Fall

Environmental Chemistry ENV115. Discussion and study of the relationship between chemistry and contemporary environmental topics, including energy and the environment, air, soil, oil, solid and water pollution, and agricultural chemistry. Prerequisite: CHM106 / 3 credits. Offered: Fall

Introduction to Environmental Science ENV118. A study of environmental interactions including population and cultural problems, resource utilization, and impacts upon biotic systems. Presented to enable students to better understand and evaluate contemporary environmental problems and the application of science to their solution. The corresponding laboratory component provides students with the practical experience of measuring, recording and interpreting environmental data. Interdisciplinary knowledge is used to solve environmental problems. Some field trips may be required. (3 class hours / 2 laboratory hours) Prerequisite: MAT020 and ENL020 and ENL050 or satisfactory basic skills assessment scores / 4 credits. Satisfies a Natural or Physical Science general education requirement. Offered: Fall, Spring, Summer

The Process of Environmental Management and Decision-Making

ENV122. This course is an introduction to the process of environmental management and decision-making. It incorporates a modular approach to instructing students on issues of environmental protection throughout Cape Cod by focusing on wetlands, habitat, land-use planning, and conservation. Students explore watershed management and remediation, focusing on wastewater, water supply and stormwater issues. Students also learn about environmental health and safety, focusing on prevention, compliance and environmental mediation, and zoning issues. Prerequisite: None / 3 credits. Offered: Fall, Spring

Coastal Ecology

ENV125. This is an introduction to coastal marine habitats, the species, and their ecological relationships. Students develop an understanding of the diversity of living things along the Cape Cod shoreline. Students also examine the wide diversity of habitats and their differences on the Cape. This course includes extensive lab and field work. Prerequisite: None / 3 credits. Offered: Fall, Spring, Summer

Coastal and Shelf Oceanography

ENV126. This course provides an overview to the oceanography of coastal and shelf systems. Throughout the course, the interdisciplinary aspects of oceanography are emphasized by covering many areas of study including biology, chemistry, geology, physics, history, and ecology. Students gain a basic understanding and appreciation of the effects of natural marine processes as well as consequences of human activity. Emphasis is on near-shore, shallow-water systems. Prerequisite: MAT020 or satisfactory basic skills assessment score, ENV118, and ENV125 / 3 credits. Offered: Spring

Projects in Coastal Ecology

ENV127. This is an advanced class focusing on field studies of coastal marine habitats and their species composition. Students are involved in extensive field and lab surveys of several sites on Cape Cod. They examine both the biological and physical features of the coastal marine environment. Students work in small teams collecting physical (slope, particle size) and chemical data (pH, salinity, nitrites), plant and animal surveys, and recording data to analyze in the classroom. Prerequisite: ENV118 and ENV125 / 3 credits. Offered: Fall
Coastal Zone Management Laws and Regulations
ENV135. This introductory course covers the issues and regulations related to the coastal environment and its resources. The course uses an interdisciplinary approach that combines the scientific issues with their economic and social impact. Topics covered include nitrogen loading, fisheries management, aquaculture, wastewater impact, marine sanctuaries, public access, renewable energy projects, coastal flooding and erosion, and sustainable development. Current research is examined and several guest speakers will present. Prerequisite: ENV118 and ENV125 / 3 credits. Offered: Spring

Introduction to Water: Concepts and Technologies
ENV140. A study of the physical and chemical properties, human uses, hydrology and ecology of groundwater, marine, estuarine, standing and flowing water systems, focusing on the science of current water-related issues and the methods and technologies used in their solution. The basic concepts of water quality monitoring, water supply, and wastewater technologies are emphasized. Some field trips may be required. Prerequisite: None / 3 credits. Offered: Spring

Industrial Wastewater Treatment
ENV142. This course will provide an overview of the basic concepts of physical and chemical treatment, the function of related equipment and support systems and the environmental responsibilities required to safely and properly operate, maintain and manage an industrial wastewater treatment facility. This course covers typical industrial wastewater treatment processes; their purpose, their function, and their safe and efficient operation and prepares students to take a Massachusetts Industrial Wastewater Certification Exam (levels 1-4). Prerequisite: ENV118 and ENV140 / 3 credits. Offered: Varies - at Massachusetts Maritime Academy.

Wastewater Treatment Plant Operation
ENV145. The course covers the specific processes, problem-solving and operations in municipal wastewater treatment plants. Students are taught the operating parameters, data collection and analysis; the decision-making and process control of complex biological systems; and maintenance fundamentals required of Grade 4 Certification level operators. Prerequisite: ENV118 and ENV140 / 4 credits. Offered: Varies - at Massachusetts Maritime Academy.

Water Supply
ENV146. This course is a study of the principles and practice of water supply. This course provides an introduction to the physical and chemical principles of drinking water supply, the functioning of related equipment and support systems, and the responsibilities required to safely operate and maintain a water supply system. May be taken for 4 CEUs by current employees in the Waterworks industry. Prerequisite: ENV118 and ENV140 / 3 credits. Offered: Spring

Air Pollution Issues
ENV152. This course introduces the concepts and terms essential to understanding the issues behind the need for air pollution control. Basic atmospheric processes are presented as they affect delivery and dispersion of pollutants. The health effects of various pollutants and air toxins are presented in order to understand the purpose of regulations. The increasing concerns regarding indoor air quality are presented along with approaches to investigation and control. Prerequisite: ENV118 and CHM106 / 3 credits. Offered: Fall

Occupational Health and Safety (OSHA) through Hazardous Waste Management
ENV158. This course covers issues involved in the determination, treatment and reduction of hazardous wastes and the federal regulations regarding handling of hazardous wastes, the risks to society from hazardous wastes, and treatment techniques employed to mitigate their effects. The techniques covered include thermal, physico-chemical, biological and landfill disposal as well as the ways and means of reducing the generation of hazardous wastes. 40-hour (OSHA) HAZWOPER certification will be awarded upon successful completion of this course. Prerequisite: None / 3 credits. Offered: Spring

Introductory Concepts in Geographic Information Systems (GIS)
ENV160. This course is designed for the student who anticipates using GIS as a tool or career as well as the student interested in exploring the application of GIS in other disciplines. Components of the course will include: geography and map reading, fundamentals of cartography, computer fundamentals (word processing, spreadsheets, database programs and structure), and the Windows operating system and directory structures. It also introduces the students to some of the common software programs used in GIS and provides an overview of GIS related technologies such as Global Positioning Systems (GPS), Computer Aided Design (CAD), surveying, photogrammetry and satellite imagery. It is recommended that students have a basic understanding of database concepts and a working knowledge of computers. Prerequisite: None / 3 credits. Offered: Spring, Summer

Geographic Information Systems (GIS) I
ENV163. This is a two-part course that focuses on the designing and building of a map using a relational database. The course focuses on the principles of database management as related to cartography and GIS. The students are provided with the fundamental topics for each subject in class. Prerequisite: ENV118 and ENV160 / 3 credits. Offered: Fall

Geographic Information Systems (GIS) II
ENV164. The fourth and final course in the GIS certificate is designed to build on the concepts developed in ENV163. The course proceeds through the concepts of GIS in the lecture. Students choose a project and apply the concepts to the project as the course proceeds. Projects are chosen from many topics in GIS analysis: coastal zone management, hazardous materials management, environmental planning, urban planning and site assessment. Prerequisite: ENV118, ENV160 and ENV163 / 3 credits. Offered: Spring

Renewable Energy Sources
ENV170. This course provides an overview of renewable energies including solar energy, wind power, hydropower, biomass, hydrogen and fuel cells. Students learn the basic principles of each technology for new and existing construction. They study government regulations, analyze renewable energy systems, calculate savings, backup energy, and financing options. They investigate the potential of renewable energy technologies to help solve environmental and economic problems with society. Prerequisite: MAT020, ENL020, and ENL050 or satisfactory basic skills assessment scores / 3 credits. Offered: Fall, Spring, Summer
Energy Efficiency and Conservation Methods

ENV171. This course provides students with the information to identify and explain all of the energy efficiency/conservation methods available for energy use reduction. Energy-consuming facilities, both domestic and commercial, are analyzed by the students for energy efficiency opportunities. The students calculate energy savings and environmental impacts for most energy efficiency methods in order to identify and assess energy conservation opportunities. In addition, the students demonstrate the appropriate usage of energy monitoring and measuring equipment commonly used by energy specialists and energy auditors. Prerequisite: MAT020, ENL020 and ENL050 or satisfactory basic skills assessment scores / 3 credits. Offered: Spring

Introduction to Solar Energy

ENV173. Students in this course gain an understanding of our solar energy resource and how it can be utilized for a variety of energy demand applications in residential, commercial, and municipal buildings. The benefits and limitations of various solar energy technologies that are commonly used to produce heat, hot water, and electricity are examined. Students learn how to properly site, size, design, and specify solar hot water and solar electric systems. Students also learn how to perform an economic and environmental analysis of proposed systems. Prerequisite: ENV171 / 3 credits. Offered: Spring

Commercial Energy Audits

ENV172. This course offers an interactive approach for students to understand, compile, and conduct an energy audit for commercial facilities. It has been customized for the Cape Cod region and emphasizes regional issues. Prerequisite: ENV171 / 3 credits. Offered: Spring

Photovoltaic Installation

ENV178. This course introduces students to the fundamentals of photovoltaic (PV) system installation and maintenance procedures. The class is divided between classroom based lectures/activities and project based activities involving the installation of a residential scale PV system. Students who complete this course are eligible to take the North American Board of Certified Energy Practitioners' Entry Level Certificate of Knowledge of PV Systems Examination for an additional fee. Prerequisite: ENV173 / 3 credits. Offered: Varies

Solar Thermal Installation

ENV179. This course introduces students to the fundamentals of solar thermal system installation and maintenance procedures. The class is divided between classroom-based lectures/activities and project-based activities that involve the installation of a residential scale solar thermal system. This course is approved by the North American Board of Certified Energy Practitioners and counts towards the training requirements for becoming a certified Solar Thermal System Installer (additional field experience is required to be eligible for certification). Prerequisite: ENV173 / 3 credits. Offered: Varies

Small Wind Installation

ENV180. This course introduces students to the fundamentals of small wind-electric system installation and maintenance procedures. The class is divided between classroom-based lectures/activities and project-based activities that involve the installation of a residential scale wind system. This course is based in part on the Task Analysis for the North American Board of Certified Energy Practitioners Small Wind Energy Systems Installer Certification. Prerequisite: ENV177 / 3 credits. Offered: Varies

Introduction to Green Building

ENV181. This course provides a framework for making practical design and construction decisions that are environmentally responsible by focusing on residential design for Cape Cod, including new construction and renovations/additions. Topics include site orientation, building science fundamentals, passive solar design, water and energy efficiency, healthy indoor environments, green materials and resources, and certification programs in the industry. Students learn to prioritize numerous types of green building strategies by examining case studies and field experiences. Prerequisite: MAT020, ENL020, and ENL050 or satisfactory basic skills assessment scores / 3 credits. Offered: Varies

Environmental Instrumentation

ENV201. This course exposes the student to a variety of analytical techniques and instruments utilized in environmental chemical analysis. It is designed to couple theory of equipment operation with a basic understanding of the chemical principles involved. The laboratory time is divided between practical hands-on benchwork and field experiences. (1 class hour / 4 laboratory hours) Prerequisite: ENV105 and ENV115 / 4 credits. Offered: Spring

Environmental Technology Internship/Cooperative Experience

ENV260. This course involves a range of hours of monitored field experience that is consistent with the student's career goals. Students keep journals and write prescribed "analysis" papers as they progress during the course of the semester. Time commitment is based on the number of credits, 70 hours per credit. Prerequisite: ENV118 or ENV170 and permission of instructor / 1, 2, 3, or 4 credits. Offered: Fall, Spring, Summer

Film

Introduction to Film

COM120. (formerly COM220) This course provides the student with an appreciation of the film experience. Particular attention is given to important techniques, theories, and genres which influenced the technical and aesthetic development of the medium. Concepts are illustrated through the viewing of classic American and international cinema. (4 class hours) Prerequisite: ENL101 / 3 credits. Satisfies a Humanities and Fine Arts general education requirement. Offered: Fall

The American Film

COM221. (formerly COM121) This course provides the student with an appreciation of the film experience through a survey of American film from historical, aesthetic, economic, technological, critical, and appreciative viewpoints. Particular attention is given to important techniques, theories, and genres. Concepts are illustrated through viewing classic American cinema. (4 class hours) Prerequisite: ENL101 / 3 credits. Satisfies a Humanities and Fine Arts general education requirement. Offered: Fall
International Cinema

COM222. This course is a survey of the development of international cinema from historical, aesthetic, economic, technological, critical, and appreciative viewpoints. Particular attention is given to important techniques, theories, and genres. (4 class hours) Prerequisite: ENL101 / 3 credits. Satisfies a Humanities and Fine Arts general education requirement. Offered: Spring

Documentary Film

COM224. Filmmaker John Grierson defined documentaries as “the creative treatment of reality.” This course looks at the history and development of the documentary film, with a particular focus on the varying notions of truth, art, reality. Students in this class learn how to look at documentaries with a critical eye by not only studying the subject, but also by participating directly in the making of an actual documentary video. Prerequisite: ENL101 / 3 credits. Offered: Spring

Fire Science

Introduction to Fire Protection

FSC100. This course introduces the philosophy and history of fire protection, history of loss of life and property by fire, review of municipal fire defenses, study of the organization and function of federal, state, and private fire protection career opportunities. It introduces various aspects of the fire protection profession. Prerequisite: ENL020 and ENL050 or satisfactory basic skills assessment score / 3 credits. Offered: Fall, Spring

Fundamentals of Fire Prevention

FSC101. This course introduces the development and function of the fire prevention organization. Major areas of recognition include: inspections, surveying and mapping areas, recognition and enforcement of fire codes and hazards. Prerequisite: FSC100 / 3 credits. Offered: Varies

Fire Protection Systems and Equipment

FSC102. Fire detection and extinguishing systems of both automatic and manual types are studied including, sprinkler and standpipe systems, inert gases, foam and dry chemicals, temperature and smoke responsive devices, and alarm and signaling systems. Demonstrations illustrate and supplement the class work. Prerequisite: None / 3 credits. Offered: Varies

Fire Fighting Tactics and Strategy

FSC103. This course is concerned with basic fire fighting tactics and strategy; methods of attack; preplanning of fire problems including necessary equipment and manpower. Some fire problems are presented for analysis and study, consistent with accepted practices from authoritative sources. The concepts of I.C.S. and R.I.C. are discussed throughout the class. Prerequisite: FSC100 / 3 credits. Offered: Varies

Building Construction for the Fire Service

FSC104. This course is designed to acquaint the firefighter with both old and modern methods of building construction. Weaknesses in construction are shown as well as safeguards that are included in some modern construction. Prerequisite: FSC100 / 3 credits. Offered: Varies

Hazardous Materials

FSC105. This course reviews the fundamental physical and chemical principles which govern the behavior of hazardous materials. Specifically, the course deals with identifying hazardous materials and the hazards of solids, dusts, water reactive materials, liquids, gases, toxic materials, plastics, corrosives, oxidizing agents, explosives, radioactivity, LP gases, cryogenics, general hazards and electricity. Handling, transporting, storage and recommended fire fighting practices within extreme fire hazard areas are discussed. Laboratory demonstrations illustrate and supplement the class work. Prerequisite: CHM106 or CHM101 or CHM109 / 3 credits. Offered: Varies

Hydraulics for the Fire Service

FSC107. This course is concerned with the fundamentals of hydraulics and fluid mechanics as they relate to the firefighter and individuals involved in Fire Protection. Subjects to be studied include: principles of fluid statics, fluid motion, water supply testing, fire pump operation and fire suppression systems. Prerequisite: FSC100 and MAT030 or satisfactory basic skills assessment score / 3 credits. Offered: Varies

Fire Investigation and Evidence

FSC108. This course covers the methods used in determining the causes and circumstances of fire. The collecting and preserving of evidence are covered; as well as the preparation of evidence for court. Prerequisite: FSC100 / 3 credits. Offered: Varies

Fire Department Management and Planning

FSC109. An exploration of organization principles with emphasis on fire department organization; a study of history, types, methods, and principles of fire department organization; insurance and fire defense, personnel and equipment, water supply, departmental functions, and administrative problems. Prerequisite: FSC114 / 3 credits. Offered: Varies

Fire Codes and Ordinances

FSC110. This course reviews the codes which influence the field of fire prevention including the fire prevention regulations of the Commonwealth of Massachusetts (527 CMR). Also included are Chapters 48, 143 and 148 of the General Laws of the Commonwealth, as well as the Massachusetts Building Code, and the codes of the National Fire Protection Association. Prerequisite: None / 3 credits. Offered: Varies

Fire Company Management

FSC114. A study of scope and functions of the fire company officer in the fire department. Topics discussed include: role of the fire officer, Departmental procedures, administrative and management procedures, training, public relations, tactics and strategy, and fire prevention. Prerequisite: FSC100 / 3 credits. Offered: Varies

Introduction to Technical Rescue

FSC115. The student receives instruction in the basic concepts of technical rescue. An explanation of related equipment, regulations and procedures to supervise and conduct technical rescue operations are explained. Prerequisite: None / 3 credits. Offered: Varies

Introduction to Incident Management

FSC120. This course introduces the philosophy of emergency scene management, the National Incident Management System (N.I.M.S.), planning and preparation in anticipation of a likely emergency, and management of specific types of emergency situations including a review of lessons learned from historical incidents. This course is intended to acquaint students with the basic management tools needed to operate as a command officer at the scene of an emergency or disaster. Prerequisite: ENL020 and ENL050 or satisfactory basic skills assessment score / 3 credits. Offered: Varies
Shipboard Firefighting
FSC130. This course is designed to give the students an understanding of the maritime industry by providing information on maritime terminology, ship construction, firefighting shipboard fire protection systems, and shipboard firefighting. The course focuses on the necessary tactics and strategies needed to deal with a maritime fire as well as the various agencies that can provide assistance in dealing with a shipboard fire. Students are given a tour of a ship, during which time the systems are explained and the shipboard firefighting problems discussed. Prerequisite: None / 3 credits. Offered: Varies

Special Topics in Fire Science
FSC200. This course serves to deepen student’s knowledge of subjects in Fire Science introductory courses and explore timely issues outside the established curriculum. Prerequisite: Any introductory-level Fire Science course / 1 credit; may be repeated for a maximum of 3 credits. Offered: Varies

Fitness
Also see Health Sciences and Nursing.

Decision Making in Health
FIT105. The course examines information, concepts and knowledge for influencing changes in health-related behavior so that the student may make decisions that will affect him/her personally throughout the life cycle. The course includes in-depth study and discussions in the areas of health as it affects people physically, psychologically, and sociologically. It assists the students in evaluating their beliefs, attitudes, and values toward their own personal health in a rapidly changing environment. Prerequisite: None / 3 credits. Offered: Varies

Personal Fitness
FIT117. Students assess their current level of health-related fitness and develop a physiologically sound program of physical activity to meet their needs and interests. The course emphasizes the concept of physical fitness as a lifetime commitment and stresses the acquisition of specific knowledge, skill, and motivation necessary to meet this commitment. Prerequisite: None / 3 credits. Offered: Fall, Spring

Lifeguard Training (LGT)
FIT133. The course affords students the opportunity to develop the knowledge and skills associated with safety, supervision and rescue in an aquatic environment. Emphasis is placed on the development of skills designed to save the life of another in an aquatic emergency. Those successfully completing the course will be certified by the American Red Cross in Lifeguard Training (R94) (including First Aid certification), CPR for the Professional Rescuer and Waterfront Lifeguarding. LGT Certification indicates the minimum skills training for a person to qualify as a non-surf lifeguard. Students must be able to pass a swimming proficiency test - completed at 2nd class meeting. Prerequisite: None / 3 credits. Offered: Fall, Spring

Survey of Lifetime Activities
FIT142. The course surveys the fundamental skills, specific knowledge, and relative values of selected leisure sports. The course focuses on the examination of personal skills, interests, and needs as criteria for the selection of and participation in leisure sports and the constructive use of leisure time. Class format includes an introduction to participation in selected leisure sports, discussion of class activities and related leisure concepts, and small group and individual assignments. Prerequisite: None / 3 credits. Offered: Varies

Frisbee and Sports Nutrition
FIT115. This course provides information about the relationship between nutrition and fitness/sports performance. It is of interest to professionals who advise athletes and to the general population interested in improving health and physical performance through sound nutritional practices. Topic examples include carbohydrate metabolism, weight management, body composition assessment, eating disorders, ergogenic aids, and pre-/ post- and competition meals. Prerequisite: None / 3 credits. Offered: Varies

Pilates Mat I
FIT164. Pilates Mat I is designed to expose the student to the Pilates method of body conditioning with a unique system of stretching and strengthening exercises developed over 90 years ago by Joseph Pilates. Pilates strengthens and tones muscle, increases flexibility, and develops better posture. The student learns the basic beginning sequence of exercises and gains an understanding of muscle groups as they relate to Pilates. Prerequisite: None / 1 credit. Offered: Fall, Spring

Kripalu/Hatha Yoga I
FIT167. A five-week course designed to expose the student to basic yoga philosophy, breathing exercises, simple postures and relaxation techniques. The student also learns about the major muscles and bones, as well as the circulatory and nervous system of the human body in relation to yoga. Prerequisite: None / 1 credit. Offered: Fall, Spring

Kripalu/Hatha Yoga II
FIT168. A five-week course designed for the student who has completed FIT167. New postures are introduced, and postures are held for longer periods of time. Additional breathing techniques are incorporated. Students develop a deeper understanding of how the body functions, and how yoga affects these functions. Relaxation techniques are further developed. Prerequisite: FIT167 / 1 credit. Offered: Fall, Spring

Adventure Concepts
FIT170. This course explores the use of the adventure paradigm (model) as a means of promoting effective intrapersonal and interpersonal behavior. Using an interdisciplinary approach, the course examines the relationship of risk, goal setting, and skill development/application to personal and social growth. Adventure activities such as rappelling, group problem solving tasks, and individual initiative projects are used to provide a common experiential base for the discussion of course concepts. Prerequisite: None / 3 credits. Offered: Fall, Spring

French
Also see International Studies.

Conversational French
FRN100. This conversational French course is designed to introduce the non-native speaker of French the four basic skills necessary to developing a working knowledge of French: understanding, speaking, reading, and writing. The emphasis is on speaking and understanding spoken French. Prerequisite: ENL050 or satisfactory basic skills assessment score / 3 credits. Offered: Varies
Elementary French I
FRN101. This is the first semester of a two-semester college elementary French sequence. It is for beginning students of French. The text and ancillary materials provide a thorough four skills approach: speaking, reading, writing, and understanding spoken French. This course is not intended for students whose native language is French. Prerequisite: ENL020 and ENL050 or satisfactory basic skills assessment score / 4 credits. Satisfies a Humanities & Fine Arts general education requirement. Offered: Fall

Elementary French II
FRN102. This is the second semester of a two-semester college elementary French sequence. It is for beginning students of French. The text and ancillary materials provide a thorough four skills approach: speaking, reading, writing, and understanding spoken French. The purpose of this course is to provide students a sound basis for learning French as it is spoken and written today. (5 class hours) Prerequisite: FRN101 or permission of the instructor / 4 credits. Satisfies a Humanities & Fine Arts general education requirement. Offered: Spring

Travel and Study in France for French Language Students
FRN121. This is the ultimate March break field trip for French language students enrolled in French at Cape Cod Community College. Visits include Paris, Normandy, Brittany, and Ille de France. One week (intensive) in France. Prerequisite: Any CCCC credit French class / 1 credit; may be repeated; 4 credit maximum. Offered: Spring

Immersion Study in French Language/Civilization
FRN122. Students study French language and civilization in a Francophone country. Traditional class work is supplemented by cultural activities and field trips. Prerequisite: None / 3 credits. Offered: Spring

Intermediate French I
FRN201. This course is for students who have completed one year of Elementary French or two years of high school French. Students read, discuss, and write about francophone culture and language in French. Prerequisite: FRN102 or 2-4 years of high school French / 4 credits. Satisfies a Humanities & Fine Arts general education requirement. Offered: Fall

Intermediate French II
FRN202. Intermediate French II is for students who have completed Intermediate French I or three to four years of high school French. Students read, discuss and write about francophone culture and language in French. (5 class hours) Prerequisite: FRN201 or 3-4 years of high school French / 4 credits. Satisfies a Humanities & Fine Arts general education requirement. Offered: Spring

Advanced French: Survey of French Literature I
FRN301. This course is a survey of selected French literary works. These selections serve as a basis for classroom discussion and writing assignments. Conversation and composition polish and develop students' abilities in all four language skills: reading, writing, listening, and speaking. Prerequisite: FRN202 / 3 credits. Offered: Fall

Advanced French: Survey of French Literature II
FRN302. This course is a survey of selected contemporary French literary works. These selections serve as a basis for classroom discussion and writing assignments. Conversation and composition polish and develop students’ abilities in all four language skills: reading, writing, listening, and speaking. Prerequisite: FRN202 / 3 credits. Offered: Spring

Freshman Seminar
Career and Personal Exploration: Strategies for Success
CXP020. This interdisciplinary course is designed to give students the opportunity to explore choices available to them in significant areas of their personal and professional lives. The topics presented include assessing personal skills, values clarification, critical thinking, career planning and job hunting, mentoring, managing life survival skills (time, stress and money management), and choosing healthy lifestyle behaviors. Prerequisite: None / 3 non-degree credits.

Career and Personal Exploration: Strategies for Success II
CXP021. Continuing with the themes begun in CXP020, this course expands upon the goal-setting and achieving skills required for success in and outside the academic world. Students research and refine career options, opportunities and requirements; develop short- and long-term plans; and take the initial steps toward bringing their short-term plans to fruition. Students improve their computer literacy as well with work in Microsoft Word, Outlook, Media Player and PowerPoint. This is an interdisciplinary course designed to give students a better understanding of themselves. Topics presented include reassessment of personal skills and interests, value clarification, career planning and job search, and managing life-survival skills (such as money management and conflict resolution.) Prerequisite: CXP020 / 3 non-degree credits.

First Year Seminar
FSM101. This course increases students' success in college by assisting them in obtaining skills and the knowledge of resources necessary to reach their educational goals. Prerequisite: None. Letter grade or Pass-Fail / 1 credit. Offered: Fall, Spring

Geography
American Geography
GEO101. Comprehensive, systematic study of population, natural resources, and potentialities of the United States and Canada. Evaluates these nations against a background of world economics and political affairs. Prerequisite: None; ENL020 and ENL050 or satisfactory basic skills assessment scores recommended / 3 credits. Offered: Varies

Geography: Culture and Environment
GEO104. This course examines the differences and spatial interactions of various cultures, technologies, and regions. The economic and social possibilities of local, extra-local, and regional environments are viewed from the perspective of their resident human populations. The concept of a world region is introduced and used as framework by which to understand the contemporary issues associated with cultural geography. The basic concepts of cultural geography are introduced and the analytical tools of cultural geography are reviewed. The successful student is conversant with the basic tools and concepts of cultural geography, the analytical perspectives of the discipline, as well as the broad cultural patterns of the cultural regions of the world. Prerequisite: None; ENL020 and ENL050 or satisfactory basic skills assessment scores recommended / 3 credits. Satisfies a Behavioral & Social Sciences general education requirement. Offered: Spring
German

Conversational German
GER100. This basic conversational German course is designed to introduce the non-native speaker of German the four basic skills necessary to develop a working knowledge of German: understanding, speaking, reading, and writing. The emphasis is on speaking and understanding spoken German. Prerequisite: ENL050 or satisfactory basic skills assessment score / 4 credits. Offered: Fall, Spring

Elementary German I
GER101. The first semester of a two-semester college elementary German sequence for beginning students of German. The text and ancillary materials provide a thorough four-skills approach: speaking, reading, writing, and understanding spoken German. This course is not intended for students whose native language is German. Prerequisite: ENL020 and ENL050 or satisfactory basic skills assessment score / 4 credits. Satisfies a Humanities & Fine Arts general education requirement. Offered: Fall

Elementary German II
GER102. This is the second semester of a two-semester college Elementary German sequence. It is for beginning students of German. The text and ancillary materials provide a thorough four-skills approach: speaking, reading, writing, and understanding spoken German. Prerequisite: GER101 / 4 credits. Satisfies a Humanities & Fine Arts general education requirement. Offered: Spring

Intermediate German I
GER201. This course is for students who have completed one year of elementary college German or two to four years of high school German. Students read, discuss, and write about German culture and language in German. Prerequisite: GER102 or 2-4 years of high school German / 4 credits. Satisfies a Humanities & Fine Arts general education requirement. Offered: Fall

Intermediate German II
GER202. This course is for students who have completed Intermediate German I or three to four years of high school German. Students read, discuss and write about Germanic culture and language in German. Students must have college-level reading and writing skills in their native language. Students are expected to be able to greet and respond to greetings and introductions, engage in conversation, express likes, dislikes and needs, describe and compare, narrate a short anecdote using past, present, and future tenses, write simple paragraphs, and read and understand some details and important ideas in authentic texts. Prerequisite: GER201 / 4 credits. Satisfies a Humanities & Fine Arts general education requirement. Offered: Spring

Health Sciences
Also see Fitness and Nursing.

Advanced Concepts for Nursing Assistants
CNA122. (formerly HEA112) This course is designed to teach advanced skills to nursing assistants and home health aides working with more acutely ill patients in Medicare (sub-acute) units in nursing homes, in home care, and in hospitals. Prerequisite: CNA117 or permission of instructor / 1 credit. Offered: Varies

Pediatrics and Parenting
CNA128. (formerly HEA128) This course is designed to prepare nursing assistants/home health aides to care for children in community settings. Topics include health promotion, parenting, hospice care, and care of the sick and disabled child and adolescent. A holistic approach to families is used to assist in meeting the physical, psychological, emotional, and spiritual needs of children and their caregivers. Prerequisite: CNA117 or permission of instructor / 3 credits. Offered: Varies

EKG Technician
DTC102. This 30-hour course prepares the student to function as an EKG technician and assist with Holter monitoring and stress testing. Upon successful completion of this course, the student is eligible to take the national certification exam for EKG technicians. Prerequisite: None / 2 credits. Offered: Fall, Spring

Fundamentals of Phlebotomy
DTC104. This course is a combination of lecture and lab which presents the theory, application and procedures of phlebotomy skills. The student obtains knowledge of specific anatomy, safety, quality control, Point of Care Testing, and processing of specimens. Applicants must attend an information session and advising session prior to admission. Prerequisite: None / 6 credits. Offered: Fall, Spring

Emergency Medical Technician: EMT
EMS101. This course is designed to train participants to work with existing agencies that provide emergency medical services. Included in these services are first-aid procedures, operation of emergency equipment, and knowledge of communications systems associated with emergency and rescue operations. Students gain knowledge and skills relating to medical and emergency technology within classroom and laboratory settings. The students are eligible for state certification upon successful completion of course and state examination. Prerequisite: None / 5 credits. Offered: Fall, Spring

Advanced Pre-Hospital Training Program: Paramedic I
EMS201. This course covers the roles and responsibilities of the EMT/Paramedic including history and physical assessment, pathophysiology and management of shock, cardiac, respiratory, neurological, and abdominal emergencies, and overview of emergency medical services communication systems. Students perform skills under the supervision of a clinical preceptor in a variety of clinical sites, including critical care units, operating rooms, emergency departments, and renal dialysis departments. Applicants must be currently certified as an EMT and are required to attend an information session and interview. Special tuition is charged. Prerequisite: ENL020 and MAT020 or satisfactory basic skills assessment scores / 7 credits. Offered: Fall
Advanced Pre-Hospital Training Program:
Paramedic II / Paramedic Clinical Field Experience
EMS202/602. Assessment and management of emergencies and obstetrics, gynecology, trauma, pediatrics, adolescent medicine, and geriatrics. Students perform skills under the supervision of a clinical preceptor in a variety of clinical sites, including critical care units, operating rooms, emergency departments, pediatric intensive care units, labor and delivery rooms, and psychiatric units. Students respond to emergency medical service calls and perform paramedic skills as part of an advanced life support ambulance crew under the supervision of a field preceptor. Special tuition is charged. Prerequisite: EMS201 / 8 credits. Offered: Spring

Stress Management for Optimal Health
HEA120. A comprehensive approach to the subject of stress and its effects on health and disease. Stress concepts are addressed within a holistic framework appreciating the physiological, psychological, emotional, social, and spiritual aspects of individuals. Common physical, intrapersonal, environmental, and global stressors are assessed. Current stress interventions are introduced. Emphasis is on integrating knowledge from several disciplines to provide an informed scientific foundation for stress management. Prerequisite: None; PSY101 recommended / 3 credits. Offered: Fall, Spring

Standard First Aid and Basic Life Support (Cardiopulmonary Resuscitation)
HEA130. (formerly FIT130) The course provides participants with a basic knowledge of First Aid skills for treatment of illness or injury, as well as instruction in Basic Life Support for the healthcare provider (CPR) according to the guidelines of the American Heart Association (AHA). Upon successful completion of the course, students receive AHA certification in both Standard First Aid and CPR. Prerequisite: None / 1 credit. Offered: Fall, Spring

Advanced First Aid & Emergency Care/Bas Life Support/First Responder
HEA132. (formerly FIT132) The course provides comprehensive and advanced coverage of first aid skills for treatment of illness or injury, as well as Basic Life Support/Healthcare Provider (BLS/HCP) for the professional rescuer. Upon successful completion of the course, the participants receive certification as a First Responder in accordance with Massachusetts General Law chapter 111: Section 201 and Basic Life Support for the Healthcare Provider in accordance with the standards established by the Committee on Cardiopulmonary Resuscitation and Emergency Cardiac Care of the American Heart Association. Prerequisite: None / 3 credits. Offered: Fall, Spring

Mentor Training Level I
HEA151. This is the first level of a tri-level mentor training program. The focus is on the industry-specific skills and knowledge to be acquired, observed, and evaluated by the person assigned to mentor a new employee. This course delves into the rationale behind each procedure and key steps to be mastered by the new employee. Beginning interpersonal relationship techniques will be integrated into each class. Prerequisite: High school diploma or GED / 1 credit. Offered: Varies

Mentor Training Level II
HEA152. This is the second level of a tri-level mentor training program. The focus is on developing effective communication skills necessary for the success of the mentor/protege relationship. This course focuses on demonstrated understanding and application of such essential skills as establishing rapport, goal setting, listening, word choice, nonverbal appropriateness, managing conflict, and offering criticism. Prerequisite: High school diploma or GED; HEA151 recommended / 1 credit. Offered: Varies

Mentor Training Level III
HEA153. This is the third level of a tri-level mentor training program. The focus is on developing leadership skills to prepare for the role of team leader within a work setting. This course focuses on demonstrating understanding and application of such essential skills as team building, multidisciplinary collaboration, understanding personality differences, problem solving, and leadership strategies. Prerequisite: High school diploma or GED and HEA152 / 1 credit. Offered: Varies

Pharmacology
HEA200. This course addresses the interaction between substances used as drugs and human body systems. Knowledge of natural sciences, pharmacokinetics, and pharmacodynamics between chemical entities and receptors, and pharmacological concepts of administration, dosage and patient safety are stressed. Emphasis is placed upon mechanisms of action, side effects, and drug interactions. Prerequisite: Acceptance into the Nursing program; Co-requisite: NUR107 and BIO108 or permission of the instructor / 3 credits. Offered: Fall, Spring, Summer

Nutrition
HEA201. Principles of nutrition are discussed in detail and related to many different settings. Topics of discussion include: My Pyramid; nutritional labeling; the (6) nutrients and how each is ingested, digested, metabolized, and transported throughout the human body; nutritional counseling of many different types of patients, such as the cancer patient, geriatric patient, infant, child and adolescent; and food safety. An introductory course for individuals interested in pursuing a Dietetics major. Prerequisite: CHM109 and BIO107 / 3 credits. Offered: Fall, Spring, Summer

Fundamentals of Medical Assisting
MAC101. This introductory course for the Medical Assisting certificate is designed to bring together a learning community of students to explore the role of the professional medical assistant, the health care team, the history of the profession, and credentialing requirements. They learn to obtain patient histories, vital signs, principles of infection control, etc. Prior to admission to this course the student must attend an information session and an advising session. Prerequisite: ENL020, ENL050, MAT020 or satisfactory basic skills assessment scores / 3 credits. Offered: Fall

Medical Assisting Clinical Procedures and Clinical Practicum
MAC203. This six-credit course is designed to teach basic medical assisting clinical skills and provide practical experience in a clinical setting to complement the clinical and office skills required by the credentialing agency (Commission for Accreditation of Allied Health Education Programs- CAAHEP). The course is divided into lecture, laboratory practice, 160-hour clinical practicum, and 7 hours of seminar addressing professional behavior in health care. Prerequisite: BIT103, BIO105, and MAC101. Co-requisite: BIT203 / 6 credits. Offered: Spring

History
U.S. History to 1865
HIS103. This introductory survey of United States history from the European invasion of North America through the mid-19th Century period of the Civil War and Reconstruction addresses major social, cultural, political, and economic developments with emphasis on their relation to contemporary United States institutions and trends. Prerequisite: None; ENL020 and ENL050 strongly recommended / 3 credits. Satisfies a Behavioral & Social Sciences general education requirement. Offered: Fall, Spring, Summer
U.S. History since 1865  HIS104. This introductory survey of United States history from Reconstruction to the present addresses major social, cultural, political, and economic developments with emphasis on their relation to contemporary United States institutions and trends. Prerequisite: None; ENL020 and ENL050 strongly recommended / 3 credits. Satisfies a Behavioral & Social Sciences general education requirement. Offered: Fall, Spring, Summer

The U.S. since 1945  HIS108. This course is a contemporary history of the United States (since World War II) at home and abroad. It provides an in-depth investigation of the events, developments, personalities, and meanings of the changes of the past years. Prerequisite: None; ENL020 and ENL050 or satisfactory basic skills assessment scores strongly recommended / 3 credits. Satisfies a Behavioral & Social Sciences general education requirement. Offered: Fall, Spring

U.S. Maritime History to World War I  HIS112. A survey of maritime development in the United States. Significant technological, scientific, and military development of maritime commerce will be reviewed. This course begins with the age of exploration and concludes with the first World War. Prerequisite: None; ENL020 and ENL050 or satisfactory basic skills assessment scores strongly recommended / 3 credits. Satisfies a Behavioral & Social Sciences general education requirement. Offered: Varies

World History I  HIS119. This survey course explores the economic, political, cultural, and social developments in world history from the rise of civilization to 1500 Current Era (CE) in Asia, Africa, Europe, Oceania, the Middle East, and the Americas. The course highlights issues of geography, trade, religious and cultural movements, and social and political change that influenced the historical evolution of various world societies and their interrelationships within a global context. Prerequisite: None; ENL020 and ENL050 are strongly recommended / 3 credits. Satisfies a Behavioral & Social Sciences general education requirement. Offered: Fall, Spring, Summer

World History II  HIS120. This survey course explores the economic, political, cultural, and social developments in world history from 1500 Current Era (CE) to the present in Asia, Africa, Europe, Oceania, the Middle East, and the Americas. The course highlights issues of geography, trade, religious and cultural movements, and social and political change that influenced the historical evolution of various world societies and their interrelationships within a global context. Prerequisite: None; ENL020 and ENL050 are strongly recommended / 3 credits. Satisfies a Behavioral & Social Sciences general education requirement. Offered: Varies

History of China  HIS141. The course is a survey of Chinese history and culture beginning with the first Chinese Dynasty through the Communist Revolution in the 20th Century. Students examine the historical, political, economic, and social factors that eventually developed modern China. Upon completion of the course, students have a better understanding of how the Chinese view the world, especially the United States and the American people. Prerequisite: None; ENL020 and ENL050 or satisfactory basic skills assessment scores strongly recommended / 3 credits. Satisfies a Behavioral & Social Sciences general education requirement. Offered: Varies

European History I  HIS160. (formerly HIS157) This course provides a general overview of major topics of European History from ancient times up to 1600 Current Era (CE). Students focus on cultural, religious, political, and economic developments that formed the basis of modern European culture and society and influenced the Americas and other regions. Prerequisite: ENL020 and ENL050 or satisfactory basic skills assessment score / 3 credits. Satisfies a Behavioral & Social Sciences general education requirement. Offered: Fall, Spring, Summer

European History II  HIS162. (formerly HIS158) This course provides a general overview of European History from 1600 to the present. Students focus on cultural, religious, political, and economic developments that formed the basis of modern European culture and influenced the United States and other nations. Prerequisite: ENL020 and ENL050 or satisfactory basic skills assessment score / 3 credits. Satisfies a Behavioral & Social Sciences general education requirement. Offered: Fall, Spring, Summer

Ancient History  HIS206. This survey course examines the development of the earliest civilizations of the Near East and Europe, including Mesopotamia, Egypt, Greece and Rome, including their major historical periods; cultural contributions; and social, political, and economic organization. Prerequisite: ENL101 / 3 credits. Satisfies a Behavioral & Social Sciences general education requirement. Offered: Fall, Summer

Medieval History  HIS207. Students survey the elements of medieval history from the fall of the Roman Empire in the West to the coming of the Renaissance. This course emphasizes the development of the medieval church, the growth of feudalism and the origins of its decline, and the seminal ideas which continue to affect our civilization. Prerequisite: ENL101 / 3 credits. Satisfies a Behavioral & Social Sciences general education requirement. Offered: Spring

U.S. at War  HIS211. A survey course focusing on the U.S. military experience from independence to the present. Emphasis will be upon specific periods of time during which the United States was involved in wars, including Independence, Civil War, WWI, Vietnam, and the Gulf War. Prerequisite: HIS103 or HIS104 / 3 credits. Offered: Varies

Women in United States History  HIS215. This course is a survey of the roles and status of women in American society from colonial times to the present. The contributions of women to the development of the United States are examined with particular emphasis upon multiculturalism, legal status, economic opportunities, reproduction and family life. Prerequisite: ENL101 / 3 credits. Satisfies a Behavioral & Social Sciences general education requirement. Offered: Spring

History of Japan  HIS216. This course is a survey of the history of Japan from ancient times up to the present. The class explores the different periods and transformations of Japanese society and culture, focusing on art, literature, religion, government, relations with China, Korea and the West, World War II and Japanese imperialism, the post-war economic boom, and the current global popularity of Japanese pop culture. Prerequisite: ENL101 / 3 credits. Satisfies a Behavioral & Social Sciences general education requirement. Offered: Fall, Spring, Summer

Women in United States History  HIS215. This course is a survey of the roles and status of women in American society from colonial times to the present. The contributions of women to the development of the United States are examined with particular emphasis upon multiculturalism, legal status, economic opportunities, reproduction and family life. Prerequisite: ENL101 / 3 credits. Satisfies a Behavioral & Social Sciences general education requirement. Offered: Spring
The Civil War
HIS258. This course addresses a crucial era in United States history: the Civil War. The class covers three major areas of historical inquiry: a) the events that led up to the war including sectionalism and slavery; b) the war itself including an overview of military events, the political and economic impact of war, and the social history of war; and c) Reconstruction, the process by which the nation sought to rebuild after the war. **Prerequisite: ENL101 / 3 credits. Satisfies a Behavioral & Social Sciences general education requirement. Offered: Fall, Summer**

Women in European History
HIS228. This course explores women's real and perceived roles and status in society from Ancient Greece to modern times. The course focuses on women's roles in the development of European history. Students explore how history has impacted the lives of women of different social and cultural groups, and how women have impacted history. **Prerequisite: ENL101 / 3 credits. Satisfies a Behavioral & Social Sciences general education requirement. Offered: Fall**

Selected Topics in History
HIS241. This course will serve as a vehicle to either deepen students' knowledge of subjects addressed in History introductory courses or explore issues outside the traditional curriculum. **Prerequisite: Any introductory-level History course / 3 credits; may be repeated once for credit. Offered: Spring**

Vietnam: America's Longest War
HIS253. The course is a historical study of the U.S. involvement in the Vietnam War. Students gain a basic understanding of America's involvement in the Vietnam War, its impact on those who served, as well as the impact on current U.S. thinking. Guest speakers who participated in the war will provide personal insight. **Prerequisite: ENL101 / 3 credits. Satisfies a Behavioral & Social Sciences general education requirement. Offered: Fall, Spring, Summer**

Homeland Security

Introduction to Security
HSC101. This course is a comparative examination of the relationship of the criminal justice system to business and industrial security, with a focus on the role private security plays in Homeland Security. The course closely examines the role of private security in protecting people and assets. **Prerequisite: ENL050 or satisfactory basis skills assessment score / 3 credits. Offered: Fall**

Maritime Security
HSC102. This course provides an examination of regulations, vulnerabilities, and threats relating to commercial maritime transportation, including cargo and seaport security, as well as issues of privacy, stowaways, terrorism, and international disputes. **Prerequisite: ENL050 or satisfactory basic skills assessment; Co-requisite: HSC101 / 3 credits. Offered: Fall**

Management of Incidents
HSC103. This course is a basic incident management course that could apply aspects of local and state governments, but concentrates on the law enforcement aspect. The course examines overall management techniques, coordination of rescue efforts, National Incident Management System (NIMS) and the Unified Command System. **Prerequisite: HSC101 / 3 credits. Offered: Spring**

Cybercrime
HSC104. This course provides students with basic information on how commonly encountered high-technology crimes are committed as well as basic investigation strategies including the collection of evidence and computer forensics focusing on the network. Crimes dealing with computers, telephones, check-reading machines, credit card machines, and other technology are discussed. Issues dealing with jurisdiction and legislation to expressly criminalize cybercrime are discussed. **Prerequisite: HSC101 or BIT187 / 3 credits. Offered: Spring**

Entomology and Plant Diseases
HOR101. A survey of the common insect pests and pathogens of ornamental plants, including a review of the basic principles of entomology and plant pathology. Topics include biological diversity, taxonomy, morphology, physiology, ecology, behavior, insect/human relationships, pesticides, biological control, and the causes, nature and control of plant pathogens. A 'least is best' philosophy will be emphasized, regarding use of pesticides in controlling the various competitions for plant health. Integrated plant management will be the basis for control strategy. **Prerequisite: None / 3 credits. Offered: Fall**

Turf Management
HOR104. An introduction to the establishment and maintenance of turf grass. Turfgrass and weed identification, cultural practices and maintenance will be included. Insect and disease life cycles and control will be reviewed. Integrated pest management (IPM) will be emphasized. **Prerequisite: None / 3 credits. Offered: Fall**

Equipment Maintenance and Operation
HOR105. Introduction and training in the repair, maintenance and safe operation of golf course and landscaping equipment. Maintenance and trouble-shooting procedures of small and large gasoline and diesel engines and basic welding are emphasized. Students learn the techniques of mowing a golf green and are instructed in the operation of a front-end loader tractor. Methods and maintenance of irrigation systems are also included. **Prerequisite: None / 3 credits. Offered: Varies**
Horticulture Practicum
HOR106. Work in an area of horticulture in a business, government or non-profit organization for at least 150 hours to receive practical training in the horticulture field. Students have an opportunity to develop and pursue challenging work experiences which relate directly to their individual career plan. A minimum of 150 hours in horticulture-related employment and a bi-weekly meeting with the Horticulture Program Coordinator. Prerequisite: Enrollment in an Horticulture certificate program. Pass-Fail / 1 credit. Offered: Fall, Spring, Summer

Floral Design
HOR107. This course is an introduction to the identification, care, handling and designing of floral crops. It will make the student aware of the various business challenges of a retail florist operation and make them capable of successfully dealing with those challenges. Emphasis is placed on the problems involved in preparing the student with the skills to work as a floral designer. Prerequisite: None / 3 credits. Offered: Varies

Herbaceous Plant Identification and Culture
HOR201. The identification and culture of herbaceous annuals, perennials, groundcovers and vines are discussed. Students review propagation, placement and pest vulnerability of herbaceous plants commonly used in the landscape. Prerequisite: HOR101 / 3 credits. Offered: Spring

Landscape Design and Construction
HOR202. Introduction to landscape design including site analysis, estimation of costs of installation, selection of site furnishings, and construction of walks, steps and walls. Prerequisite: HOR103 / 3 credits. Offered: Spring

Hospitality Management
Fundamentals of Professional Cooking
CUL150. (formerly HRM150). This course is an introduction to the management of food preparations, sanitation, and costing. Principles of cookery and their relation to methods of preparations, nutrition, cost control, kitchen organization, and management are emphasized. Co-requisite: HRM111 / 4 credits. Offered: Fall, Spring

Baking I
CUL180. An introduction to the principles of professional baking including: the chemistry of baking, terminology, scaling and measuring, and equipment use. Preparation will include a variety of breads and pastries with emphasis on proper production methods, baking methods, and final product presentation and display. Students are responsible for required supplies and materials. (1 class hour / 4 laboratory hours) Prerequisite: None / 3 credits. Offered: Fall, Spring

Dining Room Operations and Service
CUL210. This course provides an introduction and practical application into the operation of a dining room with emphasis on quality guest service. Topics include: "front of the house" organization, methods of table service, menu terminology, table arrangement, requirements for supplies and equipment, suggestive selling techniques, and revenue control and analysis. Personnel issues include hiring, training, writing personal resumes, and strengthening interview skills. Students will serve meals prepared in a restaurant setting during the course of the semester. Culinary Arts Certificate students should take CUL210 concurrently with CUL220. (2 class hours / 4 laboratory hours). Prerequisite: CUL100 or HRM140; Corequisite: CUL220 / 4 credits. Offered: Spring

Advanced Culinary Arts
CUL220. A continuation of CUL150, this capstone course builds upon basic skills and introduces more advanced culinary skills, ethnic, regional and international cuisine, and stresses communication in an operating food production environment. Additionally, students are required to develop and execute menus developed in class, and include purchasing and menu specifications, proper ordering, receiving and storage of foods, and analysis of business activity from a monetary perspective. Limited to Culinary Arts Certificate students. (2 class hours / 4 laboratory hours). Prerequisite: HRM140 or HRM150/CUL150 / 4 credits. Offered: Fall, Spring

Foodservice Sanitation
HRM111. This course provides the future hospitality manager with certification in Applied Foodservice Sanitation from the National Institute for the foodservice industry. A state-mandated certificate is awarded at the successful completion of the National Foodservice exam. Prerequisite: None / 1 credit. Offered: Fall

Food and Beverage Management
HRM130. This course covers the essentials of food and beverage controls. An awareness of management objectives is developed through the examination of organizational structures of food service. Students study topics such as menu pricing, break-even analysis, and cost-volume-profit theory. Emphasis is placed on forecasting and achieving profitability. Prerequisite: MAT102 or satisfactory basic skills assessment score / 3 credits. Offered: Spring

Introduction to Hospitality Management
HRM140. Students are introduced to the operation of businesses in the hospitality field. Emphasis is on the development cycle of the industry, current trends, and analysis of management responsibilities. Prerequisite: ENL020 or satisfactory basic skills assessment score / 3 credits. Offered: Fall

Casino Management
HRM170. This course introduces the student to the history of the gaming industry and the basics of casino management. The course emphasizes ethics in the gaming industry, the economics of the industry, and its interface with hotel and restaurant organizations. An overview of the industry, gaming control law, and career opportunities are highlighted. Prerequisite: ENL020 or satisfactory basic skills assessment score / 3 credits. Offered: Fall

Lodging Operations
HRM215. This course focuses on front desk operations and management's relationship to the front office. Methods of revenue management are applied to areas of price structure, occupancy patterns and income. Legal contract and liability issues specific to the lodging industry are also covered. Prerequisite: HRM140 / 3 credits. Offered: Fall

Hospitality Marketing
HRM230. Marketing of hospitality industry is studied through the exercise of strategic marketing planning. Understanding of the marketing concept and how it is applied to the management of businesses in the hospitality field. Emphasis is on the development cycle of the industry, current trends, and analysis of management responsibilities. Prerequisite: HRM140 and ENL101 / 3 credits. Offered: Spring
Special Events and Operations Management
HRM250. As the capstone course for Hotel Restaurant Management students, the focal point of this course is the planning, organizing and execution of special events that include: a theme, specialized menu, entertainment, dining room decorations, and uniforms reflected in the actualities of the hospitality industry. Beyond food purchasing, production and services, students are responsible for revenue control and analysis. Group work, as a class and in individual specialized groups, emphasizes completing assigned tasks. Students serve meals prepared in a restaurant setting during the course of the semester. (2 class hours / 2 laboratory hours) Limited to HRM students. Prerequisite: CUL100 or HRM140 / 3 credits. Offered: Spring

Hospitality Cooperative Work Experience
HRM262. The core content of this course involves 300 hours of monitored field experience which is consistent with the student’s career goals. Students keep journals and write prescribed ‘analysis’ papers as they progress during the course of the semester. Prerequisite: 9 credits in CUL/HRM curriculum / 3 credits. Offered: Fall, Spring, Summer

Humanities

Humanities: Perception Through the Arts
HUM102. This course is an introduction to humanistic studies; it examines works of the human spirit (in music, painting, philosophy, sculpture, architecture, drama, poetry) which have influenced our civilization and who we are as individuals. Prerequisite: ENL101 / 3 credits. Satisfies a Humanities & Fine Arts general education requirement. Offered: Fall, Spring, Summer

Human Services

Introduction to Human Services
HUS101. This course is an introduction to the historical, political and social aspects of Human Services. Topics include themes and purposes of Human Services, theoretical orientations, history and evolution of the Human Services profession, skills and intervention strategies for generalist practice, the helping process, working within a system, child and family services, mental health, substance abuse and treatment. Also covered are professional concerns including ethical standards, decision making, confidentiality, and clients’ rights. Prerequisite: None / 3 credits. Satisfies a Behavioral & Social Sciences general education requirement. Offered: Fall, Spring

Mental Health, Substance Abuse, and Families
HUS102. This course reviews assessment, intervention, and treatment in dual diagnosis families, from a systems model. Topics include needs, concerns, and resistance in individual members, and the family as a whole. Discussions revolve around the dynamics of codependency; a comparison of approaches to family recovery; treatment techniques appropriate to the different phases of family recovery; and strategies to help prevent family relapse. Service learning may be used for experiential learning. Prerequisite: PSY101 or SOC106 / 3 credits. Offered: Fall, Spring.

Introduction to Alcohol and Substance Abuse
HUS104. This course explores the causes and consequences of addiction as it relates to all aspects of society. This course briefly discusses the impact on the healthcare system, family system, and legal system. Historical implications and response to changes over time are reviewed. Topics regarding intervention, treatment, education, and prevention are discussed. Competencies and requirements for licensure in Massachusetts are explained. Addiction issues related to diverse populations are presented. Prerequisite: ENL102 and ENL050 or satisfactory basic skills assessment scores / 3 credits. Offered: Fall, Spring.

Treatment Modalities in Human Services
HUS106. This course introduces the most commonly used and widely accepted treatment and relapse prevention methods in the mental health and alcohol/substance abuse field. The course explores the role of the social service worker and treatment modalities utilized in the school, prison, outpatient, inpatient, and day treatment areas as they apply to the different special populations. The populations discussed include children, adults, elderly, dual diagnosis, incarcerated, and those with addictions. Service Learning may be used for experiential learning. Prerequisite: PSY101 / 3 credits. Offered: Fall, Spring.

Human Services Practicum
HUS202. This course establishes learning opportunities in the field of human services. Based on National Community Support Skill Standards students spend 50 service learning hours in a human services agency. In addition, students participate in a weekly class to process clinical experiences with participants, service provided, and agency interaction. The advanced experience and course addresses innovative clinical situations in individual and group settings. The class requires 100 hours in a clinical setting. CORI/SORI required. Prerequisite: PSY101 and HUS101; Co-requisite: PSY208 / 3 credits. Offered: Varies.

Advanced Human Services Practicum
HUS203. Students spend 100 service learning hours in the role of a human service provider and participate in the 12 National Community Support Skills Standards in a clinical setting throughout the semester. In addition, students participate in a weekly class to process clinical experiences with participants, service provided, and agency interaction. The advanced experience and course addresses innovative clinical situations in individual and group settings. The class requires 100 hours in a clinical setting. CORI/SORI required. Prerequisite: ENL101, HUS202, and PSY209 / 3 credits. Offered: Varies

Addictions Practicum
HUS204. The class establishes learning opportunities in the field of addictions. Students spend 50 hours throughout the semester in a human services addictions agency. In addition, students participate in a weekly class to process clinical experiences where they reflect on their field experiences, expand skills, including sensitivity, empathy, diversity awareness, confrontation, and problem-solving. Class also addresses goal setting, case management, and client assessment. The class requires 50 hours in a clinical setting. CORI/SORI required. Prerequisite: COM103, PSY101, HUS101, and HUS104; Co-requisite: HEA120 / 3 credits. Offered: Varies.

Addvanced Addictions Practicum
HUS205. This course establishes learning opportunities in the field of addictions. Students spend 100 hours throughout the semester in a human services addictions agency to apply the knowledge, values, concepts, and skills of the addiction profession. Students participate in a weekly class to process clinical experiences and focus on skill building in treatment planning, counseling, client engagement strategies, client education, consultation with other professionals and documentation. The class requires 100 hours in a clinical setting. CORI/SORI required. Prerequisite: ENL101, HUS102, HUS204, PSY208, and PSY209; Co-requisite: HUS106 / 3 credits. Offered: Varies.
Introduction to Social Welfare
HUS229. (formerly SOC229) This course includes an analysis of the conceptions of social work, social welfare and social service delivery systems from both historical and contemporary perspectives. Includes critical examination of the values, the social justice mandate as well as issues of cultural diversity that effect and inform the practice of social work. Social work is presented as a profession that integrates science, clinical awareness, and human understanding in practice intervention, policy development, and research. Contemporary issues and problems in various fields of social work practice are explored with particular emphasis on the role of the generalist social work practitioner. Prerequisite: PSY101 or SOC106 / 3 credits. Offered: Varies

Information Technology - Database

Database Applications
GIT150. Students acquire an in-depth, hands-on understanding of a PC-based relational database. Using Microsoft Access®, students create and edit tables, forms, and reports; sort, query and graph data; and attach, import and export data to/from other applications. Data normalization techniques are studied. Students, working individually and in teams, design and implement database applications. This course prepares students for the Microsoft Office User Specialist Access exam. Prerequisite: GIT120, GIT108 or GIT110 or equivalent skill level in Windows / 3 credits. Offered: Fall, Spring

Database Design and Development
BIT250. Students study and apply the functions of a database management system (DBMS), file systems, the relational model, query by example (QBE), introductory structured query language (SQL), entity relationships, normalization techniques, database design, and multi-user and network considerations. In addition, database administration, advanced database design, disaster recovery, and current trends in database technology are reviewed. Students develop advanced database applications using a Windows-based application such as Microsoft Access®. Prerequisite: GIT150 / 3 credits. Offered: Fall

Advanced Topics in Database with SQL
BIT253. Using Structured Query Language (SQL) students learn advanced features and programming tools for the implementation of databases in a client/server environment. Students complete hands-on projects using advanced Relational Database Management System, Visual Basic, and Microsoft Access®. Prerequisite: BIT250 and BIT175 / 3 credits. Offered: Spring

Information Technology - General

Microcomputer Applications Software
GIT110. This course focuses on the use of the microcomputer in various business settings. A lab/lecture environment is used to enable students to learn the Windows operating system and four commonly used software packages selected from applications in word processing, spreadsheets, databases, and presentation graphics. Students are introduced to the software and then progress through various challenging assignments, including integrating applications. Basic concepts in Internet usage, including electronic mail, are an integral part of the course. Prerequisite: GIT102 or equivalent, ENL020, and ENL050 or satisfactory basic skills assessment score / 3 credits. Satisfies an Interdisciplinary Studies general education requirement. Offered: Fall, Spring, Summer

Introduction to the Internet
GIT180. This course is designed to provide the student with both a theoretical and practical overview of the Internet. Students are prepared to perform confidently in business, educational, and personal areas of interest using many Internet services including; Telnet, File Transfer Protocol (FTP), Newsgroups, and the World Wide Web (WWW). Prerequisite: ENL020 and ENL050 or satisfactory basic skills assessment score / 3 credits. Offered: Fall, Spring

Information Technology Foundations
BIT112. This survey course introduces students to all aspects of the Information Technology (IT) industry and is intended for students wishing to make informed choices for careers in IT. Students receive an overview and understanding of the core aspects of Information Technology including Network and Infrastructure Systems, Information Support and Services, Interactive Media and Programming and Software Development. The focus of this course is an understanding and appreciation of the duties of information technology professionals and how each IT area relates to and interacts with the others. Upon completion of this course, students have the knowledge necessary to make educated choices about continued study in IT as well as understanding the impact of technology on society and organizations of all types. Prerequisite: ENL020, ENL050 and MAT020 or satisfactory basic skills assessment scores / 3 credits. Offered: Fall, Spring

Microcomputer Hardware
BIT113. Students learn the anatomy of a microcomputer by disassembling, assembling, upgrading and customizing a PC. Students evaluate purchasing vs. building a PC. The role of the BIOS and CMOS in the POST and BOOT processes is explored. System boards, processors, memory, and peripherals, including input, output, multimedia, network and data devices are studied. Students learn troubleshooting, safety, basic operating systems procedures, and security and preventive maintenance techniques. Customer service is stressed. This course covers the hardware material for the CompTIA A+ Essentials certification exam. Prerequisite: MAT020, ENL020, and ENL050 or satisfactory basic skills assessment scores / 3 credits. Offered: Fall, Spring

Operating Systems
BIT115. Students develop competency installing, configuring, upgrading, and supporting Windows operating systems. Students learn through comparison, the differences and similarities between various operating systems. Students study operating system structure, file systems, directory commands, file attributes, GUI and command line interfaces, operating system utilities, and security, Communication, team building, and professionalism are stressed. This course covers the operating system material for CompTIA A+ certification exams. Prerequisite: GIT110 / 3 credits. Offered: Fall, Spring

Information Technology Field Project
BIT260. Students have a practical, hands-on experience developing a real-world computer application. This course must be taken in conjunction with an advanced-level IT course. (1 hour per week of consultation with the assigned faculty member; a minimum of 15 hours of independent work). Prerequisite: Permission of IT Coordinator / 1 credit; may be repeated once. Offered: Varies

Information Technology Cooperative Work Experience
BIT261. The student works in an information systems office for 150 hours to gain practical training in one of the varied aspects of information technology. All students in Information Technology tracks are encouraged to take a cooperative work experience. Limited to students enrolled in the Information Technology program. Prerequisite: Completion of at least 2 semesters of Business & IT courses and/or comparable practical work experience. Permission of IT Coordinator / 3 credits; may be repeated once for credit. Offered: Fall, Spring, Summer
Systems Analysis

BIT270. Students study information systems analysis within the context of modern organizations including personnel roles, project strategies, and proposal preparation. Software is utilized to develop project management skills. Students learn how to document new and existing information systems with graphical tools. Major current methodologies for information systems analysis are reviewed. An introduction to information system design, implementation, and support is included. Students work individually and in teams to complete proposals and deliver oral presentations. Prerequisite: BIT112 or BIT111 and 12 credit hours of Information Technology and/or Computer Science courses, including at least one programming course, or programming experience that includes file/table operations, or permission of instructor / 3 credits. Offered: Spring

Introduction to Healthcare Informatics

HIT201. This course provides a broad overview of the foundations and principles of healthcare informatics as it applies to Healthcare Information Systems (HIS). Healthcare Informatics is the science behind collecting, maintaining and assimilating patient data to support decision making. The course defines informatics and its role in the design, development, and support of an HIS in a healthcare organization. Prerequisite: GIT150, HIT100 or experience in clinical healthcare setting, and BIT103 / 3 credits. Offered: Fall

Healthcare Informatics in Practice

HIT202. This course provides a more practical view of healthcare informatics, in other words, how one puts informatics into “use”. Students cover the major types of clinical information technology, with a focus on practical issues for assessing, planning, designing, implementing, and maintaining an enterprise health information system. Some of the systems that are covered include the electronic medical record (EMR), Computerized Practitioner Order Entry (CPOE), Clinical Decision Support Systems (CDSS), Clinical Data Repository (CDR), and ancillary systems. Prerequisite: HIT110 and HIT201 / 3 credits. Offered: Fall

Information Technology - Health Informatics

Health Unit Coordinator

HIT100. Students gain a conceptual and practical understanding of a Health Unit Coordinator’s position in a hospital setting. Competencies needed to perform successfully on the job and to pass the National Association of Health Unit Coordinators’ (NAHUC) certification exam are covered. Prerequisite: MAT020, ENL020, and ENL050 or satisfactory basic skills assessment scores / 3 credits. Offered: Varies

Project Management for Healthcare Informatics

HIT110. This course provides a hands-on approach to project management as it applies to healthcare informatics. Good project management greatly improves the likelihood of a successful project. This course examines the project management life cycle phases and deliverables. Through case studies, lectures and project simulation students learn the project life cycle. With a team, students apply this knowledge to select, initiate, plan, execute, monitor, control and close a typical project. Students learn to utilize project management software for their team project. Prerequisite: GIT110 and BIT103 / 3 credits. Offered: Spring

Windows Server Administration

BIT237. Using a hands-on approach, students learn current Windows Server architecture, installation, configuration, upgrading, proactive maintenance, security and environmental issues, troubleshooting and problem determination, and disaster recovery. Concepts covered include the differences between versions of Windows, installation, protocols, devices and drivers, disk and data storage, user and computer accounts, domain user and group accounts, group policy, and file system access and security. This course begins preparing students for MCSE/MCSE Certification Exams. Prerequisite: BIT187. NOTE: Open for credit to students who have completed BIT223; not open for credit to students who have completed BIT223 and BIT234 / 3 credits. Offered: Fall

Advanced Networking Essentials with Cisco

BIT239. This course covers the structure of the Internet for communications, operations of routers, and network device implementation for basic WAN connectivity. Students use simulation to analyze, configure, verify and troubleshoot networking protocols and services. Students successfully completing this course are prepared for the Cisco Certified Entry Networking Technician (CCENT) industry exam. Prerequisite: BIT187 / 3 credits. Offered: Spring

Information Technology - Networking

Networking Essentials

BIT187. Using a hands-on approach, students learn principles and practices of designing, installing, maintaining, upgrading, and troubleshooting peer-to-peer and client-server networks. Students study network operating systems theory, topologies, and protocols including planning, designing, and managing networks. Students reinforce their knowledge through interactive activities, labs and simulations. This is the first of two courses needed to prepare for the Cisco Certified Entry Networking Technician (CCENT) exam. Co-requisite: BIT115 / 3 credits. Offered: Fall, Spring

Wireless Networking

BIT236. Using a hands-on approach, students learn the fundamentals of planning, installing, maintaining, and troubleshooting a network supported by unbounded media. Assuming no prior knowledge of wireless networks and devices, students are prepared to apply and support wireless technology in personal, LAN, and WAN networks. Many of the skills required for the Certified Wireless Network Administration (CWNA) exam are covered while exploring all current IEEE wireless protocols. Prerequisite: BIT187 / 3 credits. Offered: Fall

Typing I

GIT101. Students learn to master the computer keyboard, develop speed and accuracy, and prepare basic business documents. Prerequisite: None / 3 credits. Offered: Fall, Spring

Computer Keyboarding

GIT102. Learn to touch-type correctly on a microcomputer. Attention is given to developing accuracy and, as time permits, increasing speed. Hands-on preparation of a letter and a research paper are included. Prerequisite: None; Pass-Fail. 1 credit. Offered: Fall, Spring
Office Communications Systems

**GIT105.** This course is designed to expose the student to the variety of information/communication modes available to individuals employed in today's office environment. The following major areas are addressed: communication theory, electronic communications in the automated office, oral presentation, ethical practices, and written business documentation. The importance of accurate communications and the development of language arts skills are emphasized. Business communications and formats, including business reports, letters, and memos are studied. Prerequisite: ENL020 and ENL050 or satisfactory basic skills assessment score / 3 credits. Offered: Fall, Spring

Windows Operating System

**GIT108.** This course provides an introduction to the Windows operating system and the hardware of a typical microcomputer system. Skills needed to navigate the Windows desktop, manage disks and files, and use Windows applications are explored. The WordPad and Paint programs are utilized as office tools. Students become proficient users. Prerequisite: ENL020 and ENL050 or satisfactory basic skills assessment score / 1 credit. Offered: Fall, Spring

Introduction to Electronic Worksheets

**GIT109.** Students acquire a basic conceptual and practical understanding of electronic worksheets by completing spreadsheet and graphic applications using windows-based software. Applications completed in this class are representative of a variety of business office operations. Prerequisite: None / 1 credit. Offered: Varies

Word Processing Concepts and Applications

**GIT120.** This course provides an introduction to word processing concepts and hands-on practice utilizing the basic features of a Windows-based word processing package. Content includes the document cycle, word processing equipment and system configurations, and word processing careers. Hands-on applications provide practice in the following features: cursor movement; formatting; basic editing (insert, delete, move, copy); block operations; search and replace; spell check; grammar check and thesaurus; headers and footers; working with multiple documents; printing; footnotes and endnotes; forms; and disk maintenance. Prerequisite: ENL020 and ENL050 or satisfactory basic skills assessment score; Corequisite: GIT101 or a typing speed of 30 wpm / 3 credits. Offered: Varies

Spreadsheet Applications for Business

**GIT125.** Students gain a conceptual and practical understanding of electronic worksheets utilizing the spreadsheet, data management, graphics, and application development components of a Windows-based spreadsheet program. Students complete a variety of exercises designed to develop mastery of the major components of the spreadsheet program as it is used in the business office environment. This course covers the material for the Microsoft Office User Specialist Excel Expert Exam. Prerequisite: GIT110 or GIT120 and ACC111 or ACC201 / 3 credits. Offered: Fall, Spring

Advanced Word Processing Applications

**GIT220.** Students learn proficiency using many of the advanced functions and special features of a comprehensive word processing package. Course content includes: tabs, print styles and sizes; macros; data manipulation; basic mathematical computations; special text features like outline, columns, and merges; and graphic elements. GIT110 and GIT220 cover all the material for the Microsoft Office Specialist Word Expert Certification exam. Prerequisite: GIT120 or GIT110 / 3 credits. Offered: Spring

Medical Terminology

**BIT103.** Medical terminology is the study of the principles of medical word building to help the student develop the extensive medical vocabulary used in health care occupations. Students receive a thorough grounding in basic medical terminology through a study of root words, prefixes, and suffixes. The study focuses on correct pronunciation, spelling, and use of medical terms. Anatomy, physiology, and pathology of disease are discussed yet no previous knowledge of these topics is necessary. Prerequisite: ENL020 and ENL050 or satisfactory basic skills assessment score / 3 credits. Satisfies an Interdisciplinary Studies general education requirement. Offered: Fall, Spring, Summer

Standard Office Procedures

**BIT202.** Students develop the concepts and skills needed to function effectively in an administrative assistant position. The course includes the following: human relations; customer service; communication services; meetings, minutes, and agendas; travel arrangements and itineraries; financial statements and reports; professionalism; machine transcription; and resumes and interview techniques. Prerequisite: GIT110 or GIT120 / 3 credits. Offered: Spring

Medical Office Procedures

**BIT203.** Students prepare for immediate and long-term success as administrative assistants and medical assistants in a medical office environment. The course includes the following: an overview of the healthcare industry, client/patient relations and communication, health information management, medical practice management, and professional workplace behavior. Students acquire skills in a medical office software package and explore ethical/legal issues in modern medicine. Prerequisite: GIT120 or GIT110 and BIT103 / 3 credits. Offered: Spring

Medical Coding and Billing

**BIT207.** This course is designed to teach the student the current medical coding practices used for third-party billing. ICD-9-CM and CPT coding are covered along with an in-depth study of insurance companies, Medicare, insurance claim forms, accounts receivable, and legal issues relating to medical record keeping. Prerequisite: BIT103 / 3 credits. Offered: Fall, Spring

Information Technology - Software Development

Visual Basic Programming

**BIT175.** Students learn the design processes and development tools available in Visual Basic using the .NET Framework. This knowledge is applied to build and execute Windows-based applications. Screen design, process controls and software interfacing are covered in addition to Visual Basic syntax. Prerequisite: MAT030 or satisfactory basic skills assessment score and GIT110 / 3 credits. Satisfies an Interdisciplinary Studies general education requirement. Offered: Fall, Spring

Visual Basic for Database Development

**BIT277.** Students learn the design processes and development tools available in Visual Basic as applied to developing and implementing database applications using ADO.NET for data access. Using a hands-on approach, students learn how to create applications for universal data access that provide flexibility and scalability. Microsoft standards for coding techniques and graphical user interface design are emphasized. Prerequisite: BIT175 and GIT150 / 3 credits. Offered: Fall
Foundations of Game Development
GIT160. This course offers a thorough and insightful introduction to the game development industry. Students learn about the evolution of game development and examine content creation and the concepts behind the development of story, character, environment, level design, user interface, and sound. Game platforms, level design, interface design, project management, serious games, game accessibility, and online applications are explored. Prerequisites: ENL050, ENL020, and MAT030 / 3 credits. Offered: Spring

Advanced Role Playing Game Development
BIT265. Building on the concepts introduced in Foundations of Game Development, this course provides in-depth coverage of role-playing game (RPG) development: storyline, programming, music, and graphics. Game programs are developed using C++ and the DirectX IDE. Prerequisite: GIT160 and (CSC110 or CSC120 or GIT175) Offered: Fall

Application Development for Mobile Devices
BIT266. This course offers a practical introduction to the mobile device app development industry. Students learn about the operating systems of mobile devices, limitations and challenges of developing mobile applications and create and submit an app to the app marketplace. Prerequisite: ENL020 and ENL.050 or satisfactory basic skills assessment scores and (CSC110 or CSC120 or BIT175) / 3 credits. Offered: Spring

Internet Multimedia Development
BIT220. Using state-of-the-art web design software, students learn to create interactive, multimedia-rich web sites. Emphasis is placed on integrating vector and bitmap graphics, audio animations and web movies to produce high-impact, low-bandwidth web sites. Prerequisite: GIT183 and GIT184 / 3 credits. Offered: Spring

Web Site Development Practicum
BIT221. Student teams work with faculty, departments, or non-profit organizations planning, designing and implementing interactive, dynamic web sites. This course has both service-learning and interdisciplinary facets and may be taken for honors credit. Prerequisite: GIT183, GIT184, and BIT283 / 3 credits. Offered: Fall, Spring

Client and Server-side Web Scripting
BIT283. In this introduction to building client/server Internet applications, students create Common Gateway Interface (CGI) scripts with the Perl language and JavaScript servlets. Students learn to write, debug, document, run, and maintain scripts that are useful for making web pages interactive and dynamic. Debugging techniques and server security issues related to CGI files are also discussed. Prerequisite: GIT183 and CSC110 or BIT175 or CSC120 / 3 credits. Offered: Fall

Advanced Topics in Web Development
BIT285. Students build on existing Java scripting, JavaScript programming, database, HTML, DHTML, and CSS skills. Using Extensible Markup Language (XML) and a web development platform, students learn to develop enterprise and e-commerce web applications. Other topics include server-side scripting security issues and server management. Prerequisite: GIT150, BIT283, and CSC110 / 3 credits. Offered: Spring

Insurance
Principles of Property and Liability Insurance
BIN121. Intended for those working, or interested in, the insurance industry or related business. This course includes basic principles that underlie the field of insurance, an introduction to insurance contracts, and an overview of the nature and operation of the insurance business. Prerequisite: None / 3 credits.
## International Studies

### Semester Abroad Programs
As a member of the College Consortium for International Studies (CCIS), the College offers the opportunities for students to take part in high-quality, low-cost, fully accredited study abroad programs around the world. Study abroad programs include year-long, semester, and summer courses where students may earn college credit. Study abroad programs are open to Cape Cod Community College full- and part-time students, to students from other colleges, and often to members of the community. Cape Cod Community College also offers a variety of short-term courses facilitated by our faculty. Students typically earn one to three credits per course. Frequently, short-term courses are offered for non-credit to members of the community.

### Short-Term Courses Abroad

#### International Business: A European Experience
**BUS225.** This course is to be offered at an overseas location in Europe. It is designed to provide the American student with direct contact with contemporary business courses as well as site visits at a variety of European business places. Emphasis will be placed on doing business overseas, currency issues, cultural issues, comparative marketing techniques, and basic international law. **Prerequisite:** All International Business courses (recommend ECO117 or ECO118 or BUS120) and permission of instructor / 3 credits. **Offered: Varies**

#### Travel and Study in France for Language Students
**FRN121.** This is the ultimate March break field trip for French language students enrolled in French at Cape Cod Community College. Visits include Paris, Normandy, Brittany, and Ile de France. (One week intensive in France) **Prerequisite:** Any CCC credit French class / 1 credit; may be repeated; 4 credit maximum. **Offered: Spring**

#### Travel and Study in a Spanish Speaking Country
**SPN126.** This is an educational field trip for Spanish language students enrolled at Cape Cod Community College. Visits could include Spain, Puerto Rico, Costa Rica, Ecuador, or any other Spanish speaking country. (one week to 10 days) **Corequisite:** Any credit Spanish class at Cape Cod Community College / 1 credit. **Offered: Varies**

### Italian

#### Conversational Italian
**ITAL100.** This basic conversational Italian course is designed to introduce to the non-native speaker of Italian the four basic skills necessary to develop a working knowledge of Italian: understanding, speaking, reading, and writing. The emphasis is on speaking and understanding spoken Italian. This course counts toward graduation but does not fulfill a general education distribution requirement. **Prerequisite:** ENL050 or satisfactory basic skills assessment score / 3 credits. **Offered: Fall, Spring**

#### Conversational Italian II
**ITAL125.** This course is designed to provide continued practice and mastery for the non-native speaker of Italian in the four basic skills necessary to developing a working knowledge of Italian: understanding, speaking, reading, and writing. **Prerequisite:** ITL100 / 3 credits. **Offered: Spring**

#### Immersion Study in Italian Language/Civilization
**FRN122.** Students study French language and civilization in a Francophone country. Traditional class work is supplemented by cultural activities and field trips. **Prerequisite:** None / 3 credits. **Offered: Spring**

#### Travel and Study in France for Language Students
**FRN121.** Students study French language and civilization in a Francophone country. Traditional class work is supplemented by cultural activities and field trips. **Prerequisite:** None / 3 credits. **Offered: Spring**

#### Travel and Study in a Spanish Speaking Country
**SPN126.** This is an educational field trip for Spanish language students enrolled at Cape Cod Community College. Visits could include Spain, Puerto Rico, Costa Rica, Ecuador, or any other Spanish speaking country. (one week to 10 days) **Corequisite:** Any credit Spanish class at Cape Cod Community College / 1 credit. **Offered: Varies**

## Laboratory for Transfer Students

### Special Laboratory in the Life Sciences
**BIO199.** A laboratory portion of existing life science courses that will provide a laboratory experience for only those students who are transferring in credits for life sciences courses that do not match the traditional four-credit format (3 credits lecture, 1 credit laboratory). The life sciences course laboratory selected must closely match the transferred life science course and must have the explicit approval of both the laboratory instructor and the Dean of Science, Technology, Mathematics & Business. Only if seating is available will students be allowed to register for the appropriate laboratory section during the ADD period. Students who transfer in more than one life science course may register twice (but, not for the same laboratory experience) for BIO199. Students with laboratory deficiencies in life sciences courses taken at CCC will not be allowed to register for BIO199, since the life sciences courses at CCC are designed and taught such that the laboratory and lecture are non-separable. **Prerequisite:** Completion of the non-lab portion of a transferred life sciences course and permission of the Academic Dean / 1 credit. **Offered: Varies**

### Special Laboratory in the Physical Sciences
**PHY199.** A laboratory portion of existing physical science courses that will provide a laboratory experience for only those students who are transferring in credits for physical sciences courses that do not match the traditional four-credit format (3 credits lecture, 1 credit laboratory). The laboratory selected must closely match the transferred physical science course, and must have the explicit approval of both the laboratory instructor and the Dean of Science, Technology, Mathematics & Business. Only if seating is available will students be allowed to register for the appropriate laboratory section during the ADD period. Students who transfer in more than one physical science course may register twice (but, not for the same laboratory experience) for PHY199. Students with laboratory deficiencies in physical sciences courses taken at CCC will not be allowed to register for PHY199, since the physical sciences courses are designed and taught such that the laboratory and lecture are non-separable. **Prerequisite:** Completion of the non-lab portion of a transferred physical sciences course and permission of the Academic Dean / 1 credit. **Offered: Varies**
Latin
Introduction to Latin
LAT100. This course introduces students to the Latin language and Roman culture. Learning Latin grammatical structures helps students gain an understanding of English grammar and syntax. Emphasis is on the etymology and morphology of words, and the practice of derivations and cognates allows students to enrich their vocabulary. This language study occurs within the context of Roman culture, which influenced the western world. Prerequisite: ENL020 and ENL050 or satisfactory basic skills assessment scores / 3 credits. Offered: Fall, Spring

Literature
Introduction to Children’s Literature
ENL120. Students survey works drawn from the rich variety of children’s literature. They analyze selections from major genres, discuss historical and contemporary issues, and develop practical ways of involving children in literature. Prerequisite: ENL101 / 3 credits. Satisfies a Humanities & Fine Arts general education requirement. Offered: Fall, Spring, Summer

The Short Story and Human Values
ENL135. Reading and analysis of international short fiction develops recognition of the human values reflected within that fiction. Prerequisite: ENL101 / 3 credits. Offered: Spring

World Mythologies
ENL150. Students study myths from the great cultures of the world. Through readings, discussions, research projects and presentations, students explore the universal values conveyed by these stories from different world cultures. Students discover the symbolism in the events and details of these stories, and they understand mythmaking as a primary human activity. Prerequisite: ENL101 / 3 credits. Satisfies a Humanities & Fine Arts general education requirement. Offered: Fall, Spring

Cape Cod Literature
ENL200. A survey of four centuries of Cape Cod literature, including Native American, journals and records of discovery and settlement, fishing and whaling literature, Cape women’s literature, Thoreau’s nature writing, and contemporary fiction, poetry, and essays. The course explores the Cape’s rich literary heritage, how it reflects the region’s history, culture, and environment, and examines the underlying theme of human and natural change. Field trips and journal keeping are integral to this course. Prerequisite: ENL102 or permission of instructor with submission of writing sample / 3 credits. Offered: Varies

World Literature I
ENL201. Major literary works are studied from the ancient world through the Enlightenment that have both described and shaped western civilization. Prerequisite: ENL102 / 3 credits. Satisfies a Humanities & Fine Arts general education requirement. Offered: alt. Fall

World Literature II
ENL202. Through reading Chinese folktale, Ottoman Empire traditional stories, and European treatises from the Enlightenment, students explore the literary sources of our diverse modern world cultures. An examination of historical texts from revolution to romanticism in Western Europe and the Americas, lyric poetry of the Urdu, as well as multiple voices of myriad peoples, provides a framework for studying and comparing universal values through twentieth century texts. Prerequisite: ENL102 / 3 credits. Satisfies a Humanities & Fine Arts general education requirement. Offered: alt. Spring

English Literature through the Eighteenth Century
ENL203. Designed for students who have successfully completed both semesters of English Composition and who wish to become familiar with literature that has helped shape contemporary culture. This course surveys representative works and writers in English literature through the 18th century. Prerequisite: ENL102 / 3 credits. Satisfies a Humanities & Fine Arts general education requirement. Offered: alt. Fall

British Literature from the Romantic Age to the Present
ENL204. Designed for students who have successfully completed both semesters of English Composition and who wish to become familiar with literature that has helped shape contemporary culture, this course examines representative works and writers in British literature since mid-eighteenth century. Prerequisite: ENL102 / 3 credits. Satisfies a Humanities & Fine Arts general education requirement. Offered: alt./odd Spring

American Literature to 1890
ENL205. Students examine major contributions to the development of American culture and ideals from the Pilgrims to Henry James. Prerequisite: ENL102 / 3 credits. Satisfies a Humanities & Fine Arts general education requirement. Offered: Fall, Spring

American Literature since 1890
ENL206. Students examine the rise of Realism and Naturalism through fiction and poetry. Prerequisite: ENL102 / 3 credits. Satisfies a Humanities & Fine Arts general education requirement. Offered: Fall, Spring

Shakespeare
ENL207. Students read and discuss representative works by Shakespeare, considering them for their literary value, their relevance to Elizabethan culture, and their expression of our common human experience. Prerequisite: ENL102 / 3 credits. Offered: Fall

Exploring Modern Poetry
ENL210. Students engage in reading, discussing, and writing about poems and poets of the 20th and 21st centuries. Consideration of modern poetry as both literature and art includes individual projects and presentations. Selections are drawn from both major as well as lesser known and culturally diverse poetic voices. Prerequisite: ENL102 / 3 credits. Satisfies a Humanities & Fine Arts general education requirement. Offered: Spring

The Contemporary Novel
ENL214. This course introduces the student to the major characteristics of the novel in both form and content. Contemporary novels are examined as one index of cultural values. Students read, write, and discuss a selection of novels written during the last fifty years. Prerequisite: ENL102 / 3 credits. Offered: Varies

World Religions in Literature
ENL215. World Religions in Literature provides students the opportunity to read, discuss and write about the religions of the world as subthemes in short stories, poetry, novels and literary essays. Included is intensive reading, analysis of world literature and its influence on its society, consideration of literary criticisms, and discussion of values/beliefs evident in literature with particular attention to religious themes. Prerequisite: ENL102 / 3 credits. Satisfies a Humanities & Fine Arts general education requirement. Offered: Fall
Exploring the World of Science Fiction
ENL217. Exploring the World of Science Fiction is a course that provides students the opportunity to read, discuss, and write about the genre of science fiction in literature. Texts include short stories, poetry, novels, film, and nonfiction. Emphasis is given to reading and analysis of the genre of science fiction and its influence on society and literature. Prerequisite: ENL102 / 3 credits. Satisfies a Humanities & Fine Arts general education requirement. Offered: Spring

The Arthurian Legend
ENL218. This course focuses on the origins, development, structure, and meaning of the Arthurian legend. Students read, discuss, and write about seminal Arthurian texts, and explore connections to mythology, Celtic culture, and European history. Prerequisite: ENL102 / 3 credits. Satisfies a Humanities & Fine Arts general education requirement. Offered: Fall

Masters of Horror
ENL219. Masters of Horror is a literature course that provides students the opportunity to read, discuss and write about the genre of horror in literature. Texts include short stories, poetry, novels, film, and nonfiction. Emphasis is given to reading and analysis of the genre of horror and its influence on society and literature. Prerequisite: ENL102 / 3 credits. Satisfies a Humanities & Fine Arts general education requirement. Offered: Fall

Women Writers
ENL228. This course examines traditions and themes especially important in the development of fiction, non-fiction, poetry, and drama written by women, such as “Women Alone,” “Women and Sexuality,” “Women and War, “Women in Love.” An initial overview describing the emergence of women as authors is provided to establish topical and historical contexts. Readings, drawn primarily from modern texts, offers a diverse range of authors, genres, styles, and cultures. Prerequisite: ENL102 / 3 credits. Satisfies a Humanities & Fine Arts general education requirement. Offered: Fall

Selected Topics in Literature
ENL290. Selected Topics in Literature provides students the opportunity to read, discuss and write about a literary specialty. Subjects may include African-American literature, Nobel Prize winning literature, a literary genre, a single author, or a single major work. The course includes intensive reading, analysis of the literature and its influence on society, consideration of criticism of this literature, historical study of the author or authors involved, and discussion of the cultural context of the literature. Specific content depends on the particular subject chosen for study. Prerequisite: ENL102 / 3 credits; may be repeated once for credit. Offered: Varies

Massage Therapy

Massage Therapy I
MTC101. Through a combination of classroom and laboratory instruction, this course provides an introduction to Swedish massage therapy theory and skills. Students learn skills necessary to perform competent, basic full-body therapeutic massage. Students also learn seated massage, synthesis of practitioner’s intention, critical thinking, conflict resolution, knowledge of professional boundaries, assessment and skilful therapeutic massage application are emphasized. Limited to matriculated Massage Therapy students. Co-requisite: BIO105, MTC135 / 4 credits. Offered: Fall, Spring

Introduction to Shiatsu
MTC105. Through lecture and laboratory practice, this one-credit course provides an introduction to Shiatsu that increases the massage therapy student’s versatility and treatment choices when working with clients and their presenting conditions. Focus is on the concepts of ki, yin and yang, five-element theory, and how to access the body’s life-force energy to facilitate health through pressure point (tsubo) work. Preference is given to matriculated Massage Therapy students; others if space is available. It is recommended that the student complete MTC135 (HEA135) prior to this course. Twenty combined lecture and lab hours. Prerequisite: None / 1 credit. Offered: Summer

Pathology for Massage Therapy
MTC110. It is vital to safe and therapeutic practice of massage that the student understands the common pathologic conditions that may be present in clients. This course presents these diseases and conditions as they appear in the systems of the body. Students participate in discussions involving the impact, precautions, and massage treatment plans for selected conditions. Limited to matriculated Massage Therapy students. Prerequisite: BIO105 / 3 credits. Offered: Fall, Spring

Kinesiology for Massage Therapy
MTC116. Through a combination of lecture and laboratory experience, this course will integrate the massage therapy student’s knowledge of anatomy and physiology with the study of major muscles that cause movement and control posture in the human body. Kinesiology incorporates biomechanical principles, joint structure and function, and muscle structure and function. Clay modeling of muscles is used to enhance understanding and maximize the effect of massage therapy. Limited to matriculated Massage Therapy students. Prerequisite: BIO105 / 3 credits. Offered: Fall, Spring

Self-Care for Healthcare Practitioners
MTC120. This covers a variety of skills that help to protect the health and career longevity of the health worker. Gentle movement forms such as yoga, tai chi, and stretching exercises, and mental clearing and focusing forms such as meditation and guided imagery are practiced. Proper body mechanics are taught, all with an emphasis on self-care and self-awareness. Required for matriculated Massage Therapy students. Prerequisite: None / 1 credit. Offered: Varies

Introduction to Complementary Healing Practices
MTC135. In an experiential teaching/learning format, this course provides an overview of complementary and alternative medicine (CAM) health practices now being utilized by a growing number of health-care consumers. Presentations and demonstrations by practitioners in areas such as herbal medicine, traditional Chinese medicine/acupuncture, chiropractic, and massage therapy, are an integral part of the course. The history and development of selected CAM practices and systems, how they work, and their relationship to traditional Western medicine is discussed. The concept of “wellness” versus disease treatment, and the mind-body connection are explored. Prerequisite: None / 3 credits. Offered: Fall, Spring, Summer
Massage Therapy II
MTC201. Through a combination of classroom and clinical laboratory, this course builds on knowledge and skills acquired in MTC101. Students are introduced to a variety of advanced massage techniques such as lymphatic, trigger point, myofascial, and passive exercise. Students demonstrate techniques that are within the scope of practice and training for massage therapy disciplines. Increase competency in musculoskeletal palpation and pain assessment skills. Through the integration of therapeutic communication, assessment skills and knowledge of common acute and chronic illnesses, students learn to develop appropriate treatment plans. Students develop self-care skills that help to protect the health and career longevity of the massage therapist. Limited to matriculated Massage Therapy students. Prerequisite: MTC101. Corequisite: MTC116 / 4 credits. Offered: Fall, Spring

Massage Therapy Clinical Practicum
MTC205. Through hands-on practice in the clinical laboratory, this course provides massage therapy students the opportunity to improve their skills in Swedish massage, reflexology, and seated massage in a supervised clinical setting. The focus is on integrating assessment skills, therapeutic communication, massage techniques, treatment documentation, and problem-solving in a real world client situation. Limited to matriculated Massage Therapy students who are concurrently taking or have taken MTC201. Prerequisite: MTC101, MTC115, and MTC105 / 2 credits. Offered: Fall, Spring

Massage Therapy III
MTC210. Through a combination of classroom and clinical laboratory this course builds on the knowledge and skills acquired in MTC101 Massage Therapy I and MTC201 Massage Therapy II. Students learn a variety of specialized massage techniques such as hydrotherapy and temperature therapies, sports massage and massage for special populations. Through the integration of therapeutic communication, assessment skills and knowledge of common acute and chronic illnesses, students develop appropriate treatment plans. Students are introduced to extensive self-care techniques to promote longevity in this profession. Limited to matriculated Massage Therapy students. Prerequisite: MTC101 and MTC201. Corequisite: MTC110 / 4 credits. Offered: Fall, Spring

Massage Therapy Professional Ethics and Practice Management
MTC225. This course offers theory and practice for successful management of a Massage Therapy business, from planning, financing and marketing, to communicating with clients, record-keeping, and managing time. A primary focus of this course is the ethical guidelines and appropriate professional boundaries, essential to a successful massage therapy practice. It is recommended that this course be taken after or concurrent with MTC201 and MTC205. Prerequisite: MTC101 / 2 credits. Offered: Fall, Spring, Summer

Mathematics
Also see Developmental Education and Computer Science.
Course descriptions for the following courses are listed under Developmental Education.
MAT010. Fundamental Arithmetic
MAT020. Prealgebra
MAT030. Elementary Algebra
MAT040. Intermediate Algebra

Algebra for Precalculus
MAT110. A course in intermediate algebra designed to help prepare students for precalculus courses. Topics include: factoring, rational expressions, rational exponents and roots, quadratic equations and inequality, variation, conic sections, relations and functions, transcendental functions, sequences and series, and the development of word problem analysis and solution. This course counts toward graduation but does not fulfill a general education requirement. Prerequisite: MAT030 or satisfactory basic skills assessment score / 4 credits. Offered: Fall, Spring

Prealgebra
MAT122. This course is designed for students planning to teach Elementary or Early Childhood Education. Students develop an understanding of the mathematical content of numbers and operations at the deep level required for successful elementary school teaching in ways that are meaningful to pre-service elementary and early childhood educators. Topics include: critical thinking skills; sets and operations on sets; the whole number system and its operations; place value and arithmetic models; mental math; algorithms; pre-algebra; factors, divisibility, prime numbers, elementary number theory, and their applications; the integers and its operations; clock arithmetic, fractions and rational numbers; decimals and the real number system; ratios, rates, and proportions; and percents. Prerequisite: MAT040 or MAT110 or satisfactory basic skills assessment score and ECE201 or EDU101 / 3 credits. Offered: Fall

Survey of Mathematics
MAT140. Designed for liberal arts students. Emphasis is on mathematics as the study of patterns and on mathematical thinking as the making and proving of conjectures. Topics: logic, number sequences, functions and graphs, large numbers and logarithms, geometry, symmetry and regular figures, methods of counting, probability, introductory statistics, finance, and topology. The history, philosophy, and applications of mathematics are interwoven. Prerequisite: MAT040 or MAT110 or satisfactory basic skills assessment scores / 3 credits. Satisfies a Mathematics/Quantitative Reasoning general education requirement. Offered: Fall, Spring, Summer

Elementary Statistics
MAT150. A non-calculus based introduction to descriptive and inferential statistics. Topics include measures of central tendency and measures of dispersion, correlation and regression, statistical inference, and analysis of variance. Prerequisite: MAT040 or MAT110 and ENL020 or satisfactory basic skills assessment scores / 3 credits. Satisfies a Mathematics/Quantitative Reasoning general education requirement. Offered: Fall, Spring, Summer

Finite Mathematics
MAT165. An introduction to selected applications of mathematics in business, management, social sciences, and economics. Topics include: elementary descriptive statistics, graphing of functions, simple and compound interest functions and their applications/computation, probability, and elements of mathematical modeling using first and second degree polynomials. Prerequisite: MAT040 or satisfactory basic skills assessment score / 3 credits. Satisfies a Mathematics/Quantitative Reasoning general education requirement. Offered: Fall, Spring

Precalculus Mathematics I
MAT171. A study of certain mathematical topics beyond intermediate algebra necessary for the study of calculus. Topics include non-linear inequalities, functions and graphs, polynomial and rational functions, real zero of polynomial functions, exponential and logarithmic functions, complex numbers, systems of equations, sequences and series. Prerequisite: MAT110 or satisfactory basic skills assessment score / 4 credits. Satisfies a Mathematics/ Quantitative Reasoning general education requirement. Offered: Fall, Spring, Summer
Applied Calculus
MAT180. (formerly Business Calculus I) This course is designed for students planning to apply mathematics to management and social science topics. Topics include: a review of polynomial, exponential, and logarithmic functions and their application to business, an introduction to limits, continuity and the derivative, and applications of the derivative. Prerequisite: MAT171 / 3 credits. Offered: Varies

Business Calculus II
MAT240. This first course in differential equations is designed for students with interests in mathematics, the natural sciences, or engineering. Coverage and emphasis is given to methods of solution, precise statement of theorems and definitions, problem applications. Prerequisite: MAT240 / 3 credits. Offered: Varies

Pre-Calculus Mathematics II
MAT190. A thorough development of systems of equations and trigonometric functions and their applications along with an introduction to analytic geometry (with an emphasis on the conic sections), sequences, series, and mathematical induction. The course builds on the concept of a function developed in MAT171 and extends coverage to the theory and applications of trigonometry and topics in analytic geometry, Gibbs Notation vector algebra, and polar coordinate systems. Prerequisite: MAT171 / 4 credits. Offered: Varies

Calculus I
MAT240. This first course in calculus is designed for students interested in studying mathematics, natural sciences, or engineering. The course includes the concepts of limit, the derivative, and the definite integral. Major theorems, proofs, and applications are included in the coverage. Prerequisite: MAT190 / 4 credits. Offered: Fall, Spring, Summer

Calculus II
MAT250. Continuation of MAT240. The calculus of the logarithmic, exponential, and trigonometric functions; techniques of integration, polar coordinates; sequences and series. Prerequisite: MAT240 or MAT185 / 4 credits. Offered: Varies

Calculus III
MAT260. The sequel to MAT250. Topics include parametric equations and polar coordinates, vector-valued functions, partial differentiation, multiple integrals, and topics from vector calculus and from differential equations. Prerequisite: MAT250 / 4 credits. Offered: Varies

Differential Equations
MAT270. This first course in differential equations is designed for students with interests in mathematics, the natural sciences, or engineering. Coverage and emphasis is given to methods of solution, precise statement of theorems and definitions, problem applications. Prerequisite: MAT250 / 3 credits. Offered: Varies

Linear Algebra
MAT245. Study of abstract mathematical systems. Topics include matrices, vector spaces, linear transformations, and characteristic values. Prerequisite: MAT240 / 3 credits. Offered: Varies

Peer Tutorial Practicum (Math/Science)
MTU200. This course provides an opportunity to participate in an increasingly popular, growing area of collaborative learning: the peer tutorial. By means of readings, discussion, and supervised practicum in the College’s Math Lab, students will participate in a comprehensive training experience designed to thoroughly familiarize them with the tutoring process. Prerequisite: Faculty recommendations in the content area / 1, 2, or 3 credits; may be repeated for credit; 3 credits maximum. Offered: Fall, Spring

Medical Interpreter Practicum
MIN200. This course, designed for individuals who are bilingual in English and Spanish or English and Portuguese, will focus on skills acquired during coursework in Medical Interpreter I and Medical Interpreter II. The course adheres to the Standards of Practice for medical interpreters as established by the National Council on Interpreting in Healthcare. Students will complete 150 hours of supervised medical interpreter activity in a community healthcare organization. Prerequisite: MIN102. Co-requisite: BIO105 / 3 credits. Offered: Varies

Music
Music Appreciation
MUS100. A survey of development of music from the Renaissance to the present including jazz and the contemporary scene. Emphasis on basic musical materials and principles of design. This course is for students not planning to major in music; no previous musical training required. Prerequisite: ENL010 and ENLO40 or satisfactory basic skills assessment score / 3 credits. Satisfies a Humanities & Fine Arts general education requirement. Offered: Fall, Spring, Summer

Elementary Music Theory
MUS101. This course examines the fundamental materials, including pitch, rhythm, tonal systems, ear training, and basic harmony for those wishing to learn or to improve music reading skills. Students practice in performance and composition for instruments and voice. Prerequisite: ENLO10 and ENLO40 or satisfactory basic skills assessment score / 3 credits. Offered: Fall, Spring, Summer

Medical Interpreter
Medical Interpreter I
MIN101. (formerly HEA145) This introductory course, designed for individuals who are bilingual in English and Spanish or English and Portuguese, focuses on the basic competency skills necessary to work as a trained medical interpreter. The course adheres to the Standards of Practice for medical interpreters as established by the National Council on Interpreting in Healthcare. Prerequisite: ENL020 and ENL050 or satisfactory basic skills assessment score or ESL201 and target language assessment conducted in the first class session / 3 credits. Offered: Varies

Medical Interpreter II
MIN102. This course is designed for students continuing the study of medical interpreter practice and for experienced medical interpreters. The focus is on necessary advanced competency skills, written translation, and vocabulary. Prerequisite: BIT103 and MIN101 with a grade of C or higher / 3 credits. Offered: Varies

Medical Interpreter Practicum
MIN200. This course, designed for individuals who are bilingual in English and Spanish or English and Portuguese, will focus on skills acquired during coursework in Medical Interpreter I and Medical Interpreter II. The course adheres to the Standards of Practice for medical interpreters as established by the National Council on Interpreting in Healthcare. Students will complete 150 hours of supervised medical interpreter activity in a community healthcare organization. Prerequisite: MIN102. Co-requisite: BIO105 / 3 credits. Offered: Varies

Music History I
MUS102. This course is a detailed study of styles and forms of music from ancient cultures to eighteenth century classicism. Major compositions, personalities, styles, and forms explored through structured listening, analysis, and reading assignments. Prerequisite: ENL010 and ENL040 or satisfactory basic skills assessment score / 3 credits. Satisfies a Humanities & Fine Arts general education requirement. Offered: Fall

Music History II
MUS103. This course is a detailed study of styles and forms of music from the eighteenth-century to the present. Major compositions, personalities, styles, and forms are explored through structured listening, analysis, and reading assignments. Prerequisite: ENL010 and ENL040 or satisfactory basic skills assessment score / 3 credits. Satisfies a Humanities & Fine Arts general education requirement. Offered: Spring
Fundamentals of Music
MUS104. This course introduces the fundamental materials of music, including pitch, rhythm, scales, ear training, and basic melodic notation. Elementary principles of vocal tone production are explored, and basic keyboard technique is introduced. Prerequisite: None / 3 credits. Offered: Fall, Spring

Select Chorus
MUS113. Select Chorus provides an opportunity for experienced vocalists to rehearse and perform challenging music from a variety of modern musical styles. All participants are expected to be able to read music at a moderate degree of proficiency and produce a controlled vocal quality. (2 hours per week plus 2 dress rehearsals and a final performance). Prerequisite: Interview/Audition / 1 credit. May be repeated for credit up to 6 hours. Offered: Fall, Spring

History of Rock Music
MUS116. This course explores the origins, characteristics and stylistic development of rock music. The emphasis is on the artists, songwriters, and producers who have created the most famous hits and long term trends. Prerequisite: ENL020 and ENL050 or satisfactory basic skills assessment scores / 3 credits. Satisfies a Humanities & Fine Arts general education requirement. Offered: Fall, Spring

Applied Music
MUS120. Students receive private instruction in vocal or instrumental music, appropriate to the level of the student. (15 one-half hour tutorial lessons) There will be an Applied Music charge. Prerequisite: Assessment Audition / 1 credit. May be repeated for credit; 6 credit maximum. Offered: Fall, Spring, Summer

Advanced Applied Music
MUS121. This course provides private instruction in vocal or instrumental music, appropriate to the level of the student. There will be an Applied Music charge. (15 one-hour tutorial lessons) Prerequisite: Interview/Audition / 2 credits. May be repeated for credit; 6 credits maximum. Offered: Fall, Spring, Summer

Beginning Piano
MUS122P. Students study, rehearse and perform keyboard music in a class setting. Emphasis is placed on learning to read standard musical notation in bass and treble clefs. Performances on campus and in the immediate community are part of class activities. Students are expected to provide their own portable keyboard. (3 hours per week for 7 weeks) Prerequisite: None / 1 credit. Offered: Fall, Spring

Jazz Combo
MUS123. Students rehearse and perform jazz in a variety of styles which may include: blues, Dixieland, swing, bebop, Latin, and rock. Performances on campus and in the immediate community are part of Jazz Combo activities. Students are expected to be able to read standard music notation. (Three class hours per week plus one dress rehearsal and one performance near the end of the semester.) Prerequisite: MUS101 or ability to read from standard musical notation / 1 credit. May be repeated for credit; 6 credit maximum. Offered: Fall, Spring

Guitar II
MUS124G. This continuation of Beginning Guitar course involves study, rehearsal, and performance of music in a class of up to 12 guitars. Emphasis is placed on expanding the students’ abilities to read and perform from standard musical notation in treble clef and chord symbols. Repertoire varies from one semester to the next. Performances on campus and in the immediate community are part of class activities. Students are expected to provide their own instrument. Prerequisite: MUS122 or permission of the instructor / 1 credit; may be repeated; 6 credits maximum. Offered: Fall, Spring

Piano II
MUS124P. This is a continuation of the MUS122P Beginning Piano. Students study, rehearse and perform keyboard music in a class setting. The emphasis is placed on expanding the students’ ability to read and perform from standard musical notation in treble and bass clefs. Performances on campus and in the immediate community are part of class activities. Students are expected to provide their own portable keyboard. Prerequisite: MUS122-P / 1 credit; may be repeated for credit; 6 credits maximum. Offered: Fall, Spring

African Dance and Drumming
MUS125/DAN126. Refer to Theater and Dance

Advanced Music Theory
MUS202. This course is a continuation of MUS101 with emphasis on harmony and form. Prerequisite: MUS101 or permission of instructor / 3 credits. Offered: Spring

Nursing
Also see Fitness, Health Sciences, and Information Technology.

Effective Strategies for Working with Alzheimer’s Patients
CNA114. This course is designed to offer caregivers of persons with Alzheimer’s disease a variety of strategies to use in meeting the person’s needs and understanding and dealing with often difficult behaviors. Prerequisite: None / 1 credit. Offered: Varies

Advanced Rehabilitation Nursing Assistant
CNA113. This course is designed to enhance the knowledge of Rehabilitation and Restorative Care Concepts for the Nursing Assistant working in a variety of settings with people of all ages. Prerequisite: Documentation of at least a 75-hour nursing assistant and/or home health aide course / 1 credit. Offered: Varies

Tri-level Nursing Assistant / Home Health Aide
CNA117. This 140-hour course (75 classroom and lab, and 65 hours of supervised clinical practice) teaches basic nursing skills and beginning interpersonal relationship techniques to entry-level students in the classroom and clinical area. The curriculum is divided into three levels of care: long-term, home health, and acute. It is possible to exit with certification upon completion of any one of the levels. Applicants must attend an information session and interview prior to admission. Prerequisite: None / 6 credits. Offered: Fall, Spring

Rehabilitation / Restorative Aide
CNA138. This course is designed to enhance the knowledge of the nursing assistant/home health aide in the field of rehabilitation/restoration through a combination of classroom and laboratory practice. Students acquire the skills to assist in the day-to-day rehabilitation plan of care established by and under the supervision of the physical therapist, occupational therapist, speech therapist and/or the registered nurse in a variety of settings. Prerequisite: High school diploma or GED and documented completion of at least a 75-hour nursing assistant or home health aide course / 3 credits. Offered: Varies
Pharmacology Calculations

NUR100. This course examines the methods of dosage calculation required for safe administration of medications to children and adults. Interpretation of medical orders and systems of measurements are included. Introduces dimensional analysis to convert and calculate dosages of oral, parenteral, and intravenous medications. Prerequisite: MAT030 or satisfactory basic skills assessment score / 1 credit. Offered: Fall, Spring, Summer

Fundamentals of Nursing

NUR107. Introduction to concepts of health, the individual, and nursing. Principles of the natural, behavioral and social sciences are applied to nursing. Nursing process is used to meet the basic human needs of the young, middle, and older adult in health and illness. Health assessment, interpersonal and psychomotor nursing skills will be addressed in the classroom and practiced in the campus laboratory and community health agencies with faculty guidance. (4 class hours / 12 laboratory hours) Prerequisite: Admission to the College and Nursing program. Current American Heart Association or American Red Cross certification in cardiopulmonary resuscitation (CPR/Basic Life Support - 8 hour course). ENL020 and ENL050 or satisfactory basic skills assessment score; NUR100 and BIO107. BIT103 is strongly recommended. Corequisite: BIO108, ENL101, and PSY101 / 8 credits. Offered: Fall

Nursing Across the Life Span

NUR108. Basic concepts of human development, human behavior and scientific principles are applied to the care of the childbearing family, children and adults with health problems. The cycle from infancy to the older adult is integrated with emphasis on developmental stressors and the role of family and community. This course builds upon and expands basic concepts of health assessment, interpersonal and psychomotor nursing skills. Nursing process is applied to the childbearing family, the child from infancy to adolescence and the young, middle and older adult. Nursing care of patients with selected health problems related to nutrition/fluid balance and activity/exercise is integrated. Nursing care of the preoperative patient is included. Correlated clinical laboratory experiences with faculty guidance are required. (4 class hours / 12 laboratory hours) Prerequisite: NUR107, BIO108, ENL101, and PSY101. Co-requisite: PSY233 / 8 credits. Offered: Spring

LPN in Transition

NUR132. This course prepares the student for advanced placement in NUR201 of the Nursing program by introducing concepts of professional nursing practice and building upon basic concepts of human development/behavior and scientific principles applied to the care of the childbearing family/children/adults with common health problems. The cycle from infancy to older adulthood is integrated including emphasis on developmental stressors, the family, and community. Correlated campus lab experiences with faculty guidance are required. (10 class hours / 12 clinical hours) Prerequisite: Current licensure as a Licensed Practical Nurse; current CPR certification; satisfactory basic skills assessment scores; ENL101, PSY101, PSY233, BIO107, BIO108, NUR100, and COM103 or ENL102; admission to the College and to the Nursing program / 8 credits. Offered: Summer

Physical and Mental Health I

NUR201. This course focuses on the patient/client across the life span with acute major health problems. The curriculum builds upon knowledge of scientific principles and utilization of critical thinking. Nursing process, interpersonal communication, stress adaptation, cultural competence and environmental influences are integrated. The structured acute care setting and the on-campus nursing laboratory are primarily utilized for application of nursing knowledge and development of clinical skills. Campus laboratory experiences are assigned in addition to class and clinical schedule. (6 class hours / 12 laboratory hours) Prerequisite: NUR108 or NUR132 and current CPR certification. Corequisite: BIO201 and HEA200 / 10 credits. Offered: Fall

Physical and Mental Health II

NUR202. This course is the continued study of patient/client needs within an integrated framework. Focus is on the patient/client across the life span with chronic health problems. Emphasis is on the areas of rehabilitation, gerontology, mental health and community. Psychiatric, rehabilitation, medical-surgical and community-based agencies are utilized for application of nursing knowledge and clinical skills. Campus laboratory experiences are assigned in addition to class and clinical schedule. (4 class hours / 12 laboratory hours) Prerequisite: NUR201, BIO201, and HEA200 / 8 credits. Offered: Spring

Foundations of the Profession

NUR203. This course analyzes the practice of nursing in contemporary society. Historical perspectives and current issues and trends are studied. Accountability, legal responsibilities of licensure, the ethical issues arising in the present health care systems, and leadership and management in nursing are major units of study. Political, economic, social, and cultural influences in nursing practice are considered. Prerequisite: NUR201 / 3 credits. Offered: Spring

Paralegal

Introduction to Substantive Law

BIT130. This course is an introduction to the basic concepts of law and the judicial system. Students obtain an overview of criminal law, torts, property, contracts, wills, trusts, and employment law. Particular attention is given to general skills required of paralegals. Prerequisite: None / 3 credits. Offered: Fall, Spring

Family Law

BIT131. The law of marriage, divorce, annulment, legal separation, pre-marital agreements, cohabitation, child support, alimony, and adoption are studied, as well as their implementing procedures. Prerequisite: BIT130 (may be taken concurrently) or BUS120 / 3 credits. Offered: Fall (even years)

Law Office Management

BIT132. Students learn to work in a law office environment and receive hands-on training in billing, basic bookkeeping, form preparation and library maintenance. Legal ethics, attorney/client relationships, and the paralegal’s role in maintaining files, libraries and client confidentiality are stressed. Co-requisite: BIT130 or BUS120 / 1 credit. Offered: Spring

Legal Research and Writing

BIT133. This course is an introduction to the methods and materials employed in legal research and the writing of legal memoranda and briefs. Emphasis is placed on how and where to locate the law and how to present the law that is found in those sources. Many different strategies of research are explored including computer resources and online database research. Prerequisite: BIT130 or BUS120 and ENL101 and two of the following: BIT131, BIT134, BIT135, BIT136, BIT137 / 3 credits. Offered: Spring
Real Estate, Mortgages and Landlord-Tenant Law
BIT134. This course is a study of the law of real property with special emphasis on both substantive law and practical considerations including drafting of real estate contracts and documents, title examinations, and an understanding of the mortgage lending field. Particular attention is given to the skills needed by paralegals including closing documents. Prerequisite: BIT130 or BUS120 (may be taken concurrently) / 3 credits. Offered: Spring (odd years)

Civil Litigation
BIT135. This course covers basic steps in lawsuits from the initial interview through the appellate process. Students learn how to prepare complaints, answers, motions, discovery, and study in-depth the different phases of a civil trial. Prerequisite: BIT130 or BUS120 / 3 credits. Offered: Fall

Estate Planning, Wills, Trusts and Probate Procedures
BIT136. This course covers the procedure, techniques and the substantive law in the planning of estates from simple wills to more complicated trusts. Students also learn to administer the estate of the deceased and study the tax consequences involved. Prerequisite: BIT130 or BUS120 (may be taken concurrently) / 3 credits. Offered: Spring (even years)

Contracts, Business Organizations and Transactions
BIT137. Students are introduced to the Law of Contracts with an emphasis on understanding the interrelationships among concepts and the tools required in drafting good solid contracts. Students learn how to choose and organize the different types of business organizations such as sole proprietorships, partnerships, limited liability entities, and corporations. Prerequisite: BIT130 or BUS120 (may be taken concurrently) / 3 credits. Offered: Fall (odd years)

Criminal Law and Procedure
BIT138. This course is a study of criminal law and procedure with special emphasis on both substantive and procedural criminal law and constitutional issues. Students learn to draft motions and other documents necessary for criminal defense and prosecution, prepare affidavits, briefs, and discovery. Particular attention is given to the skills needed by paralegals to assist attorneys and other legal professionals. Co-requisite: BIT130 or BUS120 / 3 credits. Offered: Fall

Internship in Paralegal Studies
BIT238. Students spend the semester (180 hours, at least 12 hours per week) working in a paralegal setting, either in a private law firm or for a government or non-profit agency such as the Sheriff’s department, District Attorney’s office, court, or Legal Aid Office. Participation in this course is subject to availability of placements, application and acceptance into the course. Prerequisite: BIT130 or BUS120, BIT133, BIT135 and (BIT131 or BIT134 or BIT136 or BIT137). The fourth prerequisite must reflect the type of legal practice in which he/she will intern. A 3.00 grade point average is required / 3 credits. Offered: Fall, Spring

Philosophy

Nineteenth and Twentieth Century Political Thought
PHI105. This course examines a number of representative political philosophies of the 19th and 20th centuries. Important works of such thinkers as Hegel, Marx, Mill, and Lenin will be studied in detail. Prerequisite: Satisfactory basic skills assessment score / 3 credits. Offered: Varies

Ethics of Health Care
PHI120. This course provides the student with an introduction to the basic concepts of contemporary Western medical ethics. The focus in the delivery of these concepts are through the case method, using practical examples and illustrations. Prerequisite: ENL101 / 1 credit. Offered: Varies

Contemporary Ethical Problems
PHI125. Examines values, ethics, and morals as they apply to social as well as personal decisions. In this interdisciplinary course, theories of the ethical philosophers are examined as well as moral development theory and cross-cultural approaches. Application to social issues is emphasized. Prerequisite: ENL101 / 3 credits. Offered: Summer

Introduction to Philosophy
PHI130. This course provides the student with an introduction to six major issues in philosophy. Although the course is essentially an “ism” course, there is substantial and focused emphasis on historical development. In every section of the course, original source materials are read and used. Prerequisite: None / 3 credits. Satisfies a Behavioral & Social Sciences general education requirement. Offered: Fall, Spring

Logic
PHI131. This course is an introduction to the principles of logic. It is designed for students who wish to develop their habits of thinking clearly and logically in the everyday world as well as in specialized areas such as science and technology. Although there is some coverage of informal logic, the thrust of the course is on formal logic including the following topics: deduction and syllogistic logic, symbolic logic, and induction and scientific method. Prerequisite: ENL101 or PHI130 / 3 credits. Satisfies a Humanities & Fine Arts (or) Behavioral & Social Sciences general education requirement. Offered: Varies

History of Western Philosophy I
PHI140. Examination of philosophical ideas in the West from early Greece to the end of the fifteenth century. Prerequisite: PHI130 or ENL101 recommended / 3 credits. Offered: Varies

History of Western Philosophy II
PHI141. Philosophical ideas in the West from the sixteenth century to the present. Prerequisite: PHI130 or ENL101 recommended / 3 credits. Offered: Varies

Three Great Thinkers
PHI160. Students in this course engage in a critical examination of a number of contemporary seminal ideas central to the human experience of both Eastern and Western thinkers. Students study the writings of three major thinkers in the history of ideas. The three are announced before pre-registration each semester and vary from semester to semester, so the course is never the same. Students explore the ideas in the course for internal consistency and for the historical context in which they arose, as well as the actual consequences those ideas have had in human affairs. Prerequisite: ENL101 and a previous philosophy course / 3 credits; may be repeated once. Satisfies a Humanities & Fine Arts (or) Behavioral & Social Sciences general education requirement. Offered: Varies

Existentialism
PHI201. This course provides the student with a comprehensive analysis of the multifaceted view toward life which has come to be known as existentialism. Social, moral, legal, religious, literary, as well as epistemological and metaphysical aspects of the existentialistic point of view, are considered. Prerequisite: ENL101 or PHI130 / 3 credits. Satisfies a Humanities & Fine Arts (or) Behavioral & Social Sciences general education requirement. Offered: Spring
Ethics
PHI210. This course provides a rigorous and thorough examination of the major ethical theories in the history of Western philosophy, covering the work of such philosophers as Plato, Aristotle, Epicurus, Augustine, Aquinas, Kant, Hobbes, Rousseau, Nietzsche, Mill, Marx, Kierkegaard, Sartre, and Ayer, and contemporary writers such as Callahan, Raz, Rawls, Nozick, and Frankl. The early part of the course is a study of metaethics and of the terminology used in doing ethical analysis. The body of the course involves the study of five major theories of normative ethics: natural law theories, social contract theories, duty-based (deontological) theories, utilitarian (teleological) theories, and existentialist theories. Skeptical alternatives to these theories are also considered. In the last month of the semester, each student is expected to focus on a project dealing with a specific ethical theory or problem area. Prerequisite: ENL101 or PHI130 / 3 credits. Satisfies a Humanities & Fine Arts (or) Behavioral & Social Sciences general education requirement. Offered: Fall

Selected Topics in Philosophy
PHI241. This course serves as a vehicle to either deepen students’ knowledge of subjects addressed in Philosophy introductory courses or explore issues outside the traditional curriculum. Prerequisite: Any introductory level Philosophy course / 3 credits; may be repeated once; 6 credit maximum. Offered: Varies

Physics
The following two courses (PHY101, PHY102) constitute a physics sequence that covers physics without the use of calculus.

Physics I
PHY101. First semester of a two-semester introduction to college physics without calculus. This course covers mechanics (kinematics, dynamics and statics), relativity and some heat. The course is appropriate for any student interested in science and particularly appropriate for health sciences and pre-professional students. (3 class hours / 2 laboratory hours) Prerequisite: MAT040 or MAT110, and ENL020 and ENL050 or satisfactory basic skills assessment scores / 4 credits. Satisfies a Natural or Physical Science general education requirement. Offered: Fall, Summer

Physics II
PHY102. Second semester of a two-semester introduction to college physics without calculus. This course covers vibrations and waves; electricity and magnetism; light and optics; and some modern physics. The course is appropriate for non-science majors who are interested in science. (3 class hours / 2 laboratory hours) Prerequisite: A grade of C or higher in PHY101 / 4 credits. Satisfies a Natural or Physical Science general education requirement. Offered: Spring

Survey of Physics
PHY106. Classical and modern physics presented conceptually and experimentally for students desiring a one-semester introduction to physics. The class emphasizes verbal and conceptual understanding of the way the world works using as little mathematics as possible. This course is appropriate for non-science majors and as a preparation for PHY211. (3 class hours / 2 laboratory hours) Prerequisite: MAT030, ENL020, ENL050 or satisfactory basic skills assessment scores / 4 credits. Satisfies a Natural or Physical Science general education requirement. Offered: Varies

The following two courses (PHY211, PHY212) constitute a traditional university parallel calculus-based physics sequence. These courses are appropriate for math, science, and engineering students.

University Physics I
PHY211. First semester of a two-semester introduction to university physics. This course covers mechanics (kinematics, dynamics and statics), relativity and some heat. The course is appropriate for math, science, and engineering students. Calculus is used. Previous experience in physics (such as PHY106) is strongly recommended. Students must have taken or be currently enrolled in MAT240, Calculus I. (3 lecture hours / 2 laboratory hours / 1 recitation hour) Prerequisite: MAT190 / 4 credits. Satisfies a Natural or Physical Science general education requirement. Offered: Varies

University Physics II
PHY212. Second semester of a two-semester introduction to university physics using calculus. This course covers vibrations and waves; electricity and magnetism; optics; and a brief introduction to modern physics. The course is appropriate for math, science, and engineering students. Calculus will be used throughout the course. Students must have taken or be currently enrolled in MAT250, Calculus II. (3 lecture hours / 2 laboratory hours / 1 recitation hour) Prerequisite: A grade of C or higher in PHY211 / 4 credits. Satisfies a Natural or Physical Science general education requirement. Offered: Varies

Cooperative Work Experience in the Natural Sciences
SCI261. Refer to Biology.

Political Science

Comparative Politics
GOV101. This course is designed as an introduction to the basic concepts and themes in comparative politics. Using a case studies approach, the course compares and contrasts states according to political ideology, process, socialization, historical evolution, public policy, state institutions, and governmental systems. Prerequisite: None / 3 credits. Satisfies a Behavioral & Social Sciences general education requirement. Offered: Fall

International Relations
GOV102. This course features an historical examination of the fundamentals of international relations in theory and practice. Topics pertaining to developed and developing nations, security, power, science and technology, and international organizations are discussed with emphasis on the 20th and 21st centuries. Prerequisite: ENL050 or satisfactory basic skills assessment score / 3 credits. Satisfies a Behavioral & Social Sciences general education requirement. Offered: Spring

The American Presidency
GOV110. This course explores the responsibilities, staff, functions, and limitations of the modern American presidency. While the course covers the origins of the presidency, the reading and lecture material focuses on the modern American presidency in the post-1932 period. This course explores the cultural, social, and economic changes that have wrought political changes in the meaning and role of the presidency. Prerequisite: None / 3 credits. Offered: Fall

American Government
GOV111. This course provides an introductory examination of the federal government. Emphasis is placed upon the political system in both principle and practice, the structure of our government, and public safety. Prerequisite: None / 3 credits. Satisfies a Behavioral & Social Sciences general education requirement. Offered: Fall, Spring, Summer

Selected Topics in Government
GOV241. This course will serve as a vehicle to either deepen students’ knowledge of subjects addressed in Government introductory courses or explore issues outside the traditional curriculum. Prerequisite: Any introductory level Government course / 3 credits; may be repeated once; 6 credit maximum. Offered: Varies
**Portuguese**

**Conversational Brazilian Portuguese**

PRT100. This basic conversational Brazilian Portuguese course is designed to introduce to the non-native speaker of Brazilian Portuguese the four basic skills necessary to develop a working knowledge of Portuguese: understanding, speaking, reading, and writing. Prerequisite: ENL050 or satisfactory basic skills assessment score / 3 credits. Offered: Fall, Spring

**Conversational Brazilian Portuguese II**

PRT125. This basic conversational Brazilian Portuguese II course is designed to provide continued practice and mastery for the non-native speaker of Portuguese in the four basic skills necessary to develop a working knowledge of Portuguese: understanding, speaking, reading, and writing. This course counts toward graduation but does not fulfill a general education distribution requirement. Prerequisite: PRT100 / 3 credits. Offered: Fall, Spring

**Psychology**

**Psychology of Career Development**

PSY100. This course introduces students to the lifelong career development process. Students gain self-knowledge through assessment of interests, abilities, values and personality. Influences on career aspirations are explored. Students identify and investigate potential career options. Decision making skills are employed to develop career goals and action plans. Students are introduced to the benefits of networks, mentors, and role models. Students develop job search materials including a résumé and cover letter. Students gain familiarity with the process and skills for employment interviewing. Prerequisite: None / 1 credit. Offered: Fall, Spring

**General Psychology**

PSY101. Introduction to the major concepts and principles underlying human behavior and mental processes. Topics include personality theory, development, learning and thought, brain and nervous system, sensation and perception, motivation and emotion, stress and physical health, abnormal psychology, psychotherapy, and social psychology. Prerequisite: ENL020 and ENL050 or satisfactory basic skills assessment scores / 3 credits. Satisfies a Behavioral & Social Sciences general education requirement. Offered: Fall, Spring, Summer

**Parenting: Family Communications and Problem Solving**

PSY110. Study of research, theory, and practical skills and information related to parenting, family interaction, and problem solving; cultural perspectives, gender issues, family configurations, economic issues, psychological challenges, adoption, and foster families are explored. Prerequisite: None / 3 credits. Offered: Varies

**Child Psychology**

PSY201. This course focuses on important aspects of physical, cognitive, social and emotional development, occurring from the prenatal period through middle school. The major theories of development, research methods and the important roles of genetics and neuroscience are discussed. Emphasis is placed on the role of early experiences and biological factors in the later formation of personality, intellectual and emotional behaviors. Prerequisite: PSY101 / 3 credits. Satisfies a Behavioral & Social Sciences general education requirement. Offered: Fall, Spring, Summer

**Adolescent Psychology**

PSY202. Physical, emotional, intellectual, and social development of the human being during adolescence. Suggested for students planning to major in psychology, education, social work, or related areas. Prerequisite: PSY101 / 3 credits. Satisfies a Behavioral & Social Sciences general education requirement. Offered: Fall, Spring

**Educational Psychology**

PSY203. The course will introduce the principles of teaching and learning including motivation, assessment, behavioral and cognitive theories and how these interact in the teaching/learning process. Prerequisite: PSY101 / 3 credits. Offered: Varies

**Psychology of Personality**

PSY204. The major theories of personality are examined including the psychoanalytic, behavioristic, and humanistic traditions. There will be an analysis of the assumptions and applications of theories. Guidelines are given for developing an integrated, eclectic theory. Prerequisite: PSY101 / 3 credits. Offered: Varies

**Abnormal Psychology**

PSY207. This course includes the study of the major psychiatric disorders such as depression, anxiety, and schizophrenia. Analysis is made of the probable causes of these disorders with emphasis on the strengths and limitations of the commonly used therapies. Consideration is given to positive, constructive, alternative responses to the basic problems of living. Prerequisite: PSY101 / 3 credits. Satisfies a Behavioral & Social Sciences general education requirement. Offered: Fall, Spring, Summer

**Principles of Counseling and Crisis Intervention**

PSY208. Analysis of a variety of life crises, methods of effecting intervention, and procedures for establishing a counseling relationship when appropriate. Designed to introduce those now in, or preparing for, the helping professions or related paraprofessional positions to the principles of effective crisis intervention and counseling. Prerequisite: PSY101 / 3 credits. Satisfies a Behavioral & Social Sciences general education requirement. Offered: Fall, Spring

**Group Dynamics in Human Services**

PSY209. This course explores the various stages of therapeutic groups, including group development. Emphasis is on basic group theory, process, and effective practice skills. Students are acquainted with task-oriented and treatment-oriented groups in a broad range of settings. This course may incorporate experiential learning where students learn about group processes via group exercises in class. Service Learning may be required. Prerequisite: PSY101 or SOC106 / 3 credits. Offered: Fall, Spring

**Human Sexuality**

PSY212. This course explores the physiological, psychological, and sociological aspects of human sexuality. Sexuality is considered as a natural, healthy function and a vital part of the total human organism. Issues of psychosexual development, sexual physiology, sexual attitudes, gender identity, love and sex, sex and the law, different sexual lifestyles, and sexual dysfunction, among others, are discussed in an open, frank manner. Audio/visual material, Internet web sites, and discussion forums augment the textbook and lecture content. Prerequisite: PSY101 / 3 credits. Offered: Fall, Spring, Summer
Social Science Research Methods
PSY216. This course introduces the basic research techniques and skills of the social sciences through an interdisciplinary, topical approach. Qualitative and quantitative research methods including ethnography, observation, survey and experimentation are discussed, demonstrated and practiced. Topics include formulating social science hypotheses, identifying variables, constructing and interpreting questionnaires, interviewing, and observing participants. Other topics include social scientists' use of statistics; research ethics; interpretation and communication of research findings, and the relevance of research to public policies in our society. Students may not earn credit for SOC225. Prerequisite: PSY101 and MAT020 / 3 credits. Offered: Varies

Psychology of Death and Dying
PSY218. This course on the psychology of death and dying has been designed to cover theory and research, as well as practical application. It enhances students' understanding of the psychological process of death and dying. Topics cover sociocultural attitudes toward death and dying, origins of death anxiety, psychological processes involved in dying, grieving and mourning, children and death, the helping relationship and the caregiver, suicide, euthanasia, burial and cremation, organ and body donations, and community resources. Prerequisite: PSY101 / 3 credits. Offered: Varies

Psychology of Women
PSY219. This course is designed for both females and males wishing a broader understanding of the physiological, psychological, and sociological determinants of female growth and development. It concentrates on developmental issues and contemporary role expectations, conflicts, and the status of women within a culturally defined role throughout the life cycle. Prerequisite: PSY101 / 3 credits. Satisfies a Behavioral & Social Sciences general education requirement. Offered: Varies

Social Psychology
PSY225. In an ever-changing global society, the individual is both influenced by the groups they encounter and conversely they influence those same groups. Social Psychology addresses human interaction and its consequences. Topics include conformity, aggression, motivation, group organization, social influences on perception, cognitive processes, and culture's impact on social behavior, addressing issues of tolerance within an increasingly diverse society. Emphasis is on the application of concepts. Prerequisite: PSY101 or SOC106 / 3 credits. Satisfies a Behavioral & Social Sciences general education requirement. Offered: Fall, Spring, Summer

Psychology of Aging
PSY231. This course presents a developmental perspective on the older adult. Biological, social, and psychological changes in personality and behaviors are studied with special attention to old age. Prerequisite: PSY101 / 3 credits. Offered: Varies

Developmental Psychology: The Life Span
PSY233. This course provides a survey of the physical, cognitive, sexual, social, and moral issues relevant to human development across the life span. Prerequisite: PSY101 and ENL101 / 3 credits. Satisfies a Behavioral & Social Sciences general education requirement. Offered: Fall, Spring, Summer

Brain and Behavior
PSY234. “Brain and Behavior” is all about the central nervous system (CNS) – its evolution, structures, development, and basic operating principles. Over the course of the semester students will study the neural underpinnings (brain bases) of ordinary behaviors such as talking, moving, thinking, and dreaming. They will also explore instances when the CNS “goes awry”; that is, examine the causes and behavioral effects of CNS disorders such as Alzheimer’s disease, schizophrenia, and autism. Prerequisite: PSY101 / 3 credits. Offered: Spring

Cognitive Psychology
PSY235. This course defines and explains the major concepts and principles underlying Cognitive Psychology. Topics include: Human Information Processing System, Perception and Attention, Short-Term Memory, different aspects of Long-Term Memory, Judgments, and Reasoning and Problem Solving. Prerequisite: PSY101 / 3 credits. Satisfies a Behavioral & Social Sciences general education requirement. Offered: Fall, Spring

Selected Topics in Psychology
PSY241. This course serves as a vehicle to either deepen students’ knowledge of subjects addressed in Psychology introductory courses or explore issues outside the traditional curriculum. Prerequisite: PSY101 / 3 credits; may be repeated once for credit. Satisfies a Behavioral & Social Sciences general education requirement. Offered: Spring

Recruitment
Refer to Fitness.

Real Estate

Principles of Real Estate (Salesperson)
RES181. A basic course to assist in preparing for the Massachusetts real estate salesperson licensing examination covering nature and classification of property, land and estates therein, acquisition and transfer of title and interest, public and private restrictions, rights and duties of owners and occupiers of land, and principal and agent relationship. Prerequisite: None / 3 credits. Offered: Fall

Principles of Real Estate II (Brokers)
RES182. Advanced course in principles of real estate designed to assist students in preparing for the state examination for the real estate broker’s license. Includes advanced work in the field of real estate. Prerequisite: RES181 / 3 credits.

Real Estate Appraising I - Residential
RES290. This course is designed to teach the fundamentals and nature of residential real estate appraising, covering the basic principles involved in real property value, the appraisal process, and the writing of appraisal reports. Prerequisite: RES181 / 3 credits.

Real Estate Appraising II - Commercial
RES291. This course is designed to teach the nature and purposes of commercial real estate appraising, covering the basic principles involved in real property value, the appraisal process, and the writing of appraisals. Prerequisite: RES181 / 3 credits.

Religion

Concepts of Western Religion
REL122. A study of the major concepts and beliefs, including Judaism, Christianity, and Islam from historical, philosophical, and cultural perspectives with consideration of the influence on personal and contemporary life. Prerequisite: None / 3 credits. Offered: Spring

Concepts of Eastern Religion
REL123. A study of the major concepts and beliefs including Hinduism, Buddhism, Confucianism, and Taoism from historical, philosophical and cultural perspectives, with consideration of the influence on personal and contemporary life. Prerequisite: None / 3 credits. Offered: Fall, Summer
The Roots of Islam
REL224. This is an expository course in the history and traditions of the Muslim faith, studying the key and fundamental concepts of that faith. As the title indicates, the course focus is on the beginnings of Islam, the life of Mohammed, the significance of the Hijrah, and the history of the early caliphs, rather than upon the modern development of Islam. Prerequisite: A previous Religion course / 3 credits. Offered: Varies

Service Learning

Service Learning Option
SLR101. This course is a fourth-credit option which may be added as an additional "lab" to an existing course. Students conduct a minimum of 50 hours of community service. Students interested in this course must first enroll in and have the permission of the instructor of an anchor three or four credit course. This additional course requires a contract between the student and faculty member. All contracts are submitted to the College Service Learning coordinator for approval. Co-requisite: Enrollment in a college-level credit course and permission of both instructor and Service Learning coordinator / 1 credit; may be repeated for a maximum of 3 credits. Offered: Fall, Spring, Summer

Sociology

Principles of Sociology
SOC106. Introduction to basic social concepts, theoretical perspectives and research methods. Topics include societies, cultures, social organization, social inequalities, social institutions, group behavior and the impact of globalization, population growth, and new technologies upon individuals and societies. Prerequisite: ENL020 and ENL050 or satisfactory basic skills assessment score / 3 credits. Satisfies a Behavioral & Social Sciences general education requirement. Offered: Fall, Spring, Summer

Juvenile Delinquency
SOC205. This course analyzes delinquent behavior of young people in our society, using various studies of the topic. It emphasizes the relationship between delinquent behavior and today's social and political conditions. Prerequisite: SOC106 / 3 credits. Satisfies a Behavioral & Social Sciences general education requirement. Offered: Fall, Spring

Race, Gender, and Class in the United States
SOC208. This course examines the intertwining constructs of race, class, and gender, and their effects on the social and economic experiences of groups or persons. Through a focus on racial formation in U.S. history, students examine dominant ethnic identity and the histories of diverse ethnic groups. Students analyze how race, class and gender shape individuals' personal identities and access to institutional settings. Ideologies and achievements of diverse ethnic groups are compared. Prerequisite: SOC106 / 3 credits. Satisfies a Behavioral & Social Sciences general education requirement. Offered: Spring, Summer

Sociology of Education
SOC216. This course provides a sociological analysis of the structure and function of contemporary education. Although some comparative cultural/historical data will be used, the focus is on education in America today. Students explore theoretical approaches to the sociology of education, stratification of schools both externally (public/private, suburban/urban) and internally (tracking, socialization, and more), the culture of schools, the relationship between education and issues of class, ethnicity and gender, and the sociology of educational alternatives and reform. Prerequisite: SOC106 / 3 credits. Offered: Varies

Sociology of Health and Health Care
SOC220. This course examines the socio-cultural aspects of health, illness and health care. Topics include development of scientific medicine, social epidemiology; definition of health and illness; social and cultural dimensions of disease and the illness experience; ethical issues in health care and health care reform. Effects of social stratification on access to health care, health professionals; the politics and economics of health care for selected diseases, such as breast cancer and HIV, are explored. Prerequisite: SOC106 or PSY101 or BIO101 or BIO105 / 3 credits. Offered: Varies

Social Science Research Methods
SOC225. This course introduces the basic research techniques and skills of the social sciences through an interdisciplinary, topical approach. Qualitative and quantitative research methods including ethnography, observation, survey and experimentation are discussed, demonstrated and practiced. Topics include formulating social science hypotheses, identifying variables, constructing and interpreting questionnaires, interviewing, and observing participants. Other topics include social scientists’ use of statistics; research ethics; interpretation and communication of research findings, and the relevance of research to public policies in our society. Students may not earn credit for PSY216. Prerequisite: SOC106 and MAT020 / 3 credits. Offered: Fall

Peoples and Cultures of Africa
SOC230. The course examines Africa's social, economic, political, religious and cultural institutions, as well as the origins, cultural practices, population dynamics, family structures, marriage, inheritances, values, ethnicity, gender relations and patriarchy, and inter-tribal and ethnic conflicts in modern Africa. Contemporary issues such as HIV/AIDS epidemic, poverty, and Africa's place in the global world are examined. Prerequisite: SOC106 or ANT107 or HIS119 or HIS120 / 3 credits. Offered: Fall. Satisfies a Behavioral or Social Science general education requirement.

Marriage and Family: Sociology of Family Interaction and Organization
SOC210. Study of the social aspects of family life and the impact of society upon families. Topics include historical forms of family life, variations of contemporary families, the effects of changing cultural values and economic forces upon the daily life and stability of families, gender, the social psychology of love and romance, sex, parenting, and divorce. The course also covers family policy issues. Prerequisite: SOC106 / 3 credits. Satisfies a Behavioral & Social Sciences general education requirement. Offered: Fall

Domestic Violence and Victimization
SOC211. The major focus of this sociology course introduces students to research on domestic violence and victimology. Theories of domestic violence (the resource theory, symbolic interaction theory, functionalism, conflict theory, and criminological theories) are introduced, defined, and applied throughout the class. The macro-sociological view looks at violence as a societal-level. The micro-sociological view looks at the social interaction between perpetrators and victims. Data, research, and case studies are explored. Prerequisite: SOC106 / 3 credits. Offered: Fall

Social Problems
SOC215. A survey of the nature and range of social problems, the global and societal conditions which give rise to them, and the methods by which societies attempt to cope with them. Prerequisite: SOC106 / 3 credits. Satisfies a Behavioral & Social Sciences general education requirement. Offered: Fall, Spring, Summer

Domestic Violence and Victimization
SOC211. The major focus of this sociology course introduces students to research on domestic violence and victimology. Theories of domestic violence (the resource theory, symbolic interaction theory, functionalism, conflict theory, and criminological theories) are introduced, defined, and applied throughout the class. The macro-sociological view looks at violence as a societal-level. The micro-sociological view looks at the social interaction between perpetrators and victims. Data, research, and case studies are explored. Prerequisite: SOC106 / 3 credits. Offered: Fall

Social Problems
SOC215. A survey of the nature and range of social problems, the global and societal conditions which give rise to them, and the methods by which societies attempt to cope with them. Prerequisite: SOC106 / 3 credits. Satisfies a Behavioral & Social Sciences general education requirement. Offered: Fall, Spring, Summer
Spanish

Conversational Spanish
SPN100. This basic conversational Spanish course is designed to introduce to the non-native speaker of Spanish the four basic skills necessary to develop a working knowledge of Spanish: understanding, speaking, reading, and writing. The emphasis is on speaking and understanding spoken Spanish. Prerequisite: ENL050 or satisfactory basic skills assessment score / 3 credits. Offered: Fall, Spring

Elementary Spanish I
SPN101. The first semester of a two-semester college elementary Spanish sequence for beginning non-native students of Spanish. The text and ancillary materials provide a thorough four skills approach: speaking, reading, writing, and understanding spoken Spanish. This course is not intended for students whose native language is Spanish. Prerequisite: ENL020 and ENL050 or satisfactory basic skills assessment score / 4 credits. Satisfies a Humanities & Fine Arts general education requirement. Offered: Fall

Elementary Spanish II
SPN102. This is the second semester of a two-semester college Elementary Spanish sequence. It is for beginning students of Spanish. The text and ancillary materials provide a thorough four skills approach: speaking, reading, writing, and understanding spoken Spanish. (5 class hours) Prerequisite: SPN101 / 4 credits. Satisfies a Humanities & Fine Arts general education requirement. Offered: Fall, Spring

Intermediate Spanish I
SPN201. This course is for students who have completed one year of elementary college Spanish or three to four years of high school Spanish. Students will read, discuss, and write about Hispanic culture and language in Spanish. Prerequisite: SPN102 or 3-4 years of high school Spanish / 4 credits. Satisfies a Humanities & Fine Arts general education requirement. Offered: Fall

Intermediate Spanish II
SPN202. This is the second semester of the sequential intermediate college-level Spanish course emphasizing further mastery of speaking, understanding, reading and writing Spanish. Readings include historical and literary aspects of the Hispanic world and Spain. This course completes Stage III of the Language Learning Continuum of the ACTFL (American Council on Teaching Foreign Languages). (5 class hours) Prerequisite: SPN201 or 3-4 years of high school Spanish / 4 credits. Satisfies a Humanities & Fine Arts general education requirement. Offered: Spring

Selected Topics in Sociology
SOC241. This course serves as a vehicle to either deepen students’ knowledge of subjects addressed in Sociology introductory courses or explore issues outside the traditional curriculum. Prerequisite: Any introductory level Sociology or Anthropology course / 3 credits; may be repeated once for credit. Offered: Fall, Spring
Stage Movement
DAN125. Enhancing the understanding of movement in order to expand the range of expression and communication. Providing practical experiences in observation, analysis, and interpretation of movement and character and applying this study to other fields of knowledge, i.e., theater, performing arts, public speaking. Prerequisite: None / 3 credits. Offered: Fall, Spring

African Dance and Drumming
DAN126/MUS125. This course serves as an introduction to the study of African dance and drumming including techniques, history and composition of dance as well as drumming techniques and rhythmic styles. In class, all students participate in both dance and drumming. Students learn about Africa including Mali, Senegal, Guinea, and West Africa and how these cultures have influenced art forms throughout the world. (Students may earn credit for either DAN126 or MUS125.) Prerequisite: ENL010 and ENL040 or satisfactory basic skills assessment score / 3 credits; may be repeated once for credit. Offered: Spring

Middle Eastern Dance and Culture
DAN127. This course serves as an introduction to the study of North African (Egypt and the Maghreb) and Middle Eastern dance and culture, including history, composition, rhythms, finger cymbals, and styles of folkloric dance, drumming and costume. Students learn about the cultural and world influence of the arts of the Middle East and North Africa. Prerequisite: ENL010 and ENL040 or satisfactory basic skills assessment score / 3 credits; may be repeated once for credit. Offered: Fall

Introduction to Theater
THR101. This course explores the many facets that make up the experience of theater. Students probe questions like: what is the essence of theater, who are the artists that create what one sees on stage, what are the types of drama, the trends and movements since the Ancient Greeks, and how are plays reflective of playwrights’ cultures? Students broaden their knowledge and experience of what constitutes the art of theater through reading, class discussion, lecture, staged readings, and viewing live and video performances. Prerequisite: ENL010 and ENL040 or satisfactory basic skills assessment score / 3 credits. Satisfies a Humanities & Fine Arts general education requirement. Offered: Fall, Spring

Page to Stage: Planning Play Productions
THR102. Students consider the life cycle of a play from the page to the stage. Students read several plays, each to be explored from the viewpoint of the director, the various designers, and other collaborating artists. Prerequisite: None / 3 credits. Offered: Spring

Acting I
THR103. Students explore basic acting theory, characterization, script analysis, scene and monologue performance to build their confidence when performing before an audience. Prerequisite: ENL010 and ENL040 or satisfactory basic skills assessment score / 3 credits. Offered: Fall, Spring, Summer

Rehearsal and Performance
THR113. Rehearsal and Performance is a practicum course that invites students to participate in the multifaceted experience of interpreting a play into a live theater production. Students learn by doing, with the option of assuming responsibilities as performers and/or production crewmembers in the Department’s scheduled production. Prerequisite: None / 3 credits; may be repeated once for credit. Satisfies a Humanities and Fine Arts general education requirement. Offered: Fall, Spring

Creative Dramatics
THR114. Strategies for those who work with children in the home, school, or community to incorporate role playing games, movement exercises, storytelling and other theater arts into their repertoire of skills to bring into the education field. Prerequisite: None / 3 credits.

Introduction to Theater Design
THR117. Students use a practical, hands-on approach to designing and constructing various scenic elements for the stage including sets, costumes, props, and lighting. (2 class hours / 3 studio hours) Prerequisite: None; THR119 recommended / 3 credits. Offered: Spring (bi-annually)

Stagecraft
THR119. Students learn both theory and practice of technical theater with emphasis on the principles of planning, construction, rigging of scenery, hanging and circuiting of lighting instruments, and operation of sound systems. (6 contact hours) Prerequisite: ENL010 and ENL040 or satisfactory basic skills assessment score / 3 credits; may be repeated once for credit. Offered: Fall, Spring

Acting II
THR203. This course builds on skills developed in a beginning acting class to include more advanced work in character development. Students are introduced to advanced level work on text analysis, character motivation and physical acting. Prerequisite: THR103 / 3 credits. Offered: Spring

Directing for Theater
THR205. This studio course combines the introduction of basic directing theory and the application of technique to assigned scenes. Students are expected to have some previous theater experience on stage or behind the scenes. Students learn to interpret scripts for performance, prepare for auditions, manage rehearsals, and refine actors work for public presentation. Prerequisite: THR103 / 3 credits. Offered: Varies

Acting on Camera I
THR207. This course is for the intermediate actor to learn the specific acting and career management skills required to pursue professional work in film and television. Students develop refined audition techniques for soap operas and all forms of television commercials. Students learn about the business concepts and self-marketing tools used by performers in film and television, focusing on how actors fit into this marketplace and how to enhance their own unique talents as saleable qualities. Prerequisite: THR103 / 3 credits. Offered :Fall

Acting on Camera II
THR208. This course is a continuation of Acting On Camera I with students working in greater depth on scripts and developing more skill and confidence in front of the camera. Topics include script analysis, preparing for emotional scenes, non-verbal reactions, characterization as well as further discussion in regard to the job seeking process. While some scripted material is provided by the instructor, students are required to go to Internet script sites and select material from existing television shows or films. Scenes are taped in the college television studio. Prerequisite: THR207 / 3 credits.
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Campus Directory

BARNSTABLE CAMPUS
2240 Iyannough Rd., West Barnstable

Tilden Arts Center (1)
Arts & Communication Department & Faculty Offices
Art Studios
Box Office
Dean of Arts & Humanities
Grants
Higgins Art Gallery
Honors Program
International Studies
Main Theater
Music Room
Phi Theta Kappa
Practice Rooms
Studio Theater

Nickerson Administration Building (2)
Admissions
Board Room
Business Office
College Communications
College Connection
Financial Aid
Human Resources
Payroll
President
Reception
Registrar/Registration
Security/Lost and Found
Student Immunization Records
Switchboard/Information
Vice President of Academic & Student Affairs
Vice President of Administration & Finance
Veterans Office

Wilkens Library (3)
Associate Dean of Academic Support Services & Learning Resources
Cape Cod Community College Educational Foundation
Cape Cod Historical Collection/ Nickerson Room
Facilities Use
Information Skills Classroom
Listening and Viewing Rooms
Media Room

South Hall (4)
Adult Learner Services
Advanced Studies
Advantage/TRIO/SSS Program
Career Services & Experiential Learning
Career Vocational Technical Education Linkage
Coaches & Mentors
Dean of Learning Resources & Student Success
Dental Hygiene Clinic
Non-Traditional by Gender Careers
O’Neill Center for Disability Services
Project Forward
Reading & Writing Resource Center
Social Sciences, Behavioral Sciences, & Human Services Department and Faculty Offices
Student Code of Conduct Officer
Student Employment

North/South Connector (5)

North Hall (6)
Dean of Health Sciences, Social Sciences, & Human Services
Health Sciences Department & Faculty Offices
Language & Literature Department & Faculty Offices
Nursing & Allied Health Learning Resource Center

Science Hall (7, 8)
Dean of Science, Technology, Mathematics & Business
Lecture Halls
Mathematics, Natural Sciences & Applied Technology Departments & Faculty Offices
Math Learning Center
Science Labs

Grossman Commons (9)
Academy for Lifelong Learning
Advising & Counseling Center
Alumni Association
Assessment Center
Bookstore
Cafeteria
College Transition Services
Dean of Enrollment Management & Advising Services
GED Testing Center
MainSheet - Student Newspaper
Student Life & Co-Curricular Programs
Student Lounge
Student Senate
Zammer Hospitality Institute

Lyndon P. Lorusso Applied Technology Building (10)
Business Department & Faculty Offices
Computer Labs
Information Technology
Instructional Technology Center
Online Learning
Teaching & Learning Center
Tutoring Center

Makkay Broadcasting Center (11)
WKKL - Radio Station

Life Fitness Complex (12-15)
All-Purpose Fields
Baseball Fields
Child Care Center
Gymnasium
Institutional Research & Planning
Life Fitness Center
Massage Therapy Lab
Racquetball Court
Soccer Fields
Tennis Courts

Facilities Management Building (16,17)
Maintenance Shops
Shipping and Receiving - Warehouse

HYANNIS CENTER
540 Main St., Hyannis
ACCCESS
Workforce Education Resource Center
Cape Cod Community College
West Barnstable - Main Campus

Directions
Route 6 to exit 6. Travel north on Route 132 for 1/4 mile. The campus entrance is on the right.

Directions to the Hyannis Center
Route 6 to exit 6 turn on Route 132 South (Iyannough Road) and travel approximately 1.7 miles. Turn right on to Barse's Way and proceed 1.7 miles (crossing Route 28). Enter the rotary and continue on Barse’s Way (almost straight ahead.) At the first traffic light turn left onto North Street. The Hyannis Center is on the right.
Glossary of Academic Terms

A.A. - Associate in Arts - An undergraduate degree of at least 60 credits or more awarded upon successful completion of a program of study in liberal arts and sciences that prepares students to transfer to a baccalaureate institution.

A.S. - Associate in Science - An undergraduate degree of at least 60 credits awarded upon successful completion of a program of study in an applied subject area, such as computers, electronics, or health, that prepares students to enter the workforce.

Academic Advisor - College staff member responsible for providing guidance in course and/or program-related issues.

Academic Term (semester) - Fall, spring, and summer weeks when classes are in session. The fall and spring semesters are approximately fifteen weeks long. The summer semester is seven weeks long.

Academic Year - Fall, spring, and summer semesters are generally from early September to mid August.

Adjunct Faculty - Members of the College staff who teach on a part-time basis.

Administration - College staff members responsible for management and supervision.

Alumni - Graduates, in the plural.

Articulation Agreement - A formal agreement between Cape Cod Community College and a four-year college or university which eases the transfer to that institution.

Audit - To take a course under an agreement which does not result in a final grade of A, B, C, etc. Generally involves regular attendance and participation, but limits graded activities, such as exams. Requires full payment of tuition.

Certificate Program - An academic program of study in a specific field intended for occupational training, upgrading or retraining, generally 28 credits or less in duration. A certificate is awarded upon successful completion of the program.

Commencement - Graduation.

Concentration - Refer to the Associate in Arts section of this Catalog.

Credit Course - An academic course numbered 100 or above in the College catalog which may be applied toward completion of a degree or certificate (see Developmental Course).

Credit Hour - A standard measure of the amount of instructional time required to successfully complete a course. For example, ENL101, English Composition I, is a 3-credit hour course, which means that it will meet for 3-hours each week for one semester.

Curriculum - Set of courses focused in a particular field, i.e., accounting, criminal justice, and early childhood education.

Dean - Member of administrative staff responsible for supervision and management of a particular division of the College.

Degree Program - At Cape Cod Community College, an Associate in Arts or Associate in Science program of study requiring 60 credits or more for completion.

Developmental Course - A basic skill development course, generally numbered below 100 in the College catalog, that carries college credit but does not count toward the requirements for graduation.

Elective - A course requirement in a program of study that may be fulfilled with a variety of courses in the designated discipline area numbered above 100.

Faculty - Members of the College staff who teach.

Fees - Charges to students by the College for specific services.

Financial Aid - Funding provided to students from various sources to assist in defraying expenses to attend the College.

Free Application for Federal Student Aid (FAFSA) - A standardized application including detailed financial data that is required to determine eligibility for all financial aid programs.

Full-Time (Student) - Students registered for 12 or more credits in the fall or spring semester.

GED - General Educational Development (high school equivalency diploma).

General Education Requirements - A common core of courses that all students are required to take which provide for the acquisition of the core skills and knowledge of a literate citizenry.

GPA (Cumulative GPA) - Grade point average used to compute student academic standing.

Matriculation - A process designed to promote student success and help students achieve their educational goals. Matriculation enhances student access to academic advising and financial aid opportunities. A student becomes matriculated when accepted and admitted to the College under a specific degree or certificate program and has registered for one or more credit courses.

A non-matriculated student is one who has registered for one or more credit courses but is not enrolled in a degree or certificate program.

Mid-Term - The point midway through an academic term.

Part-Time (Student) - Student enrolled for 11 credits or fewer in the fall or spring semester.

Prerequisite - Prerequisite courses are established to assure students have the necessary knowledge and skills to succeed in a course. Students are required to complete (or be currently enrolled in prerequisites) prior to registering for the next level course.

Program - Refer to the A.S. Associate in Science section of this Catalog.

Schedule Adjustment Period - A period of time when students may drop a class and add another.

Transcript - Permanent record of student academic grades.

Tuition - Charges to a student by the College for registration in credit courses.

Withdrawal from the College - The formal process of notifying the College of the decision to discontinue attending all classes. Available through the Advising & Counseling Office.

Withdrawal from a Course - The formal process of notifying the College of the decision to discontinue attendance in a course. Available through the Registrar’s Office.