

A blurred photograph of a classroom. In the foreground, several students are seen from behind, sitting at desks. They are wearing various colored shirts, including a blue and white striped shirt, a pink shirt, and a purple shirt. In the background, a teacher in a white shirt is standing at the front of the room, possibly pointing at a whiteboard. The overall scene is out of focus, creating a sense of a busy, active learning environment.

2021-22 CATALOG

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Academic Catalog 2021-2022

Welcome! The college catalog covers important information about Cape Cod Community College academic programs. You will find information on degrees and certificates, degree requirements, course descriptions, general education requirements, and more.

This catalog covers the 2021-2022 academic year with program information for incoming students. Current students should refer to program information in the [catalog year](#) in which they matriculated.

Academic Calendar

This calendar is for the academic year: **Fall 2021-Summer 2022**. For the upcoming academic year, see: [Academic Calendar 2022-2023](#).

Fall 2021

Fall Semester: September 7-December 21, 2021	
August 31-September 2	New Faculty & Professional Staff Orientation
August 31	Final cancellation of low enrolled classes
September 2	Opening Day for Faculty and Professional Staff
September 6	Labor Day - College closed
September 7	Classes begin
September 13	Last day to change a schedule
September 13	Last day to drop a course with no academic record
September 13	Last day to drop a course for 100% refund. No refund after this date.
September 13	Last day to change course status from audit to credit
October 1	Deadline to file for January graduation
October 11	Columbus Day - College closed
October 29	Mid-term warning grades due to Registrar
November 11	Veterans' Day - College closed
November 15	Last day to withdraw from an academic course
November 15	Last day to change course status from credit to audit
November 15	Advising/Registration for Spring 2022 begins for currently enrolled students
November 15	January Intersession 2022 registration begins for currently enrolled students
November 22	Spring 2022 registration begins for all students
November 22	January Intersession 2022 registration begins for all students
November 25	Thanksgiving Day - College closed

Fall Semester: September 7-December 21, 2021	
November 26	The College is open with minimal staffing. Classes are not held; classes resume on Monday.
December 13	Last day to resolve INC grades from Spring Semester 2021 and Summer Sessions 2021
December 13	Classes end
December 14	Professional Day: All Q-term-2 day classes are cancelled; classes starting at 3:00pm or later will run as scheduled.
December 14	Study day
December 15-21	Final exam period
December 22	Final exam make-up 8:00am-Noon (due to inclement weather)
December 25	Christmas Day - College closed
December 24, 27-31	College is open with minimal staffing
January 1	New Year's Day - College closed (Saturday)
January 3	Final grades due to Registrar by Noon
Fall Quick Term I: September 7-November 2, 2021	
August 31	Final cancellation of low enrolled classes
September 2	Opening Day for Faculty and Professional Staff
September 6	Labor Day - College closed
September 7	Classes begin
September 13	Last day to change a schedule
September 13	Last day to drop a course with no academic record
September 13	Last day to drop a course for 100% refund. No refund after this date.
September 13	Last day to change course status from audit to credit
October 1	Deadline to file for January graduation
October 8	Last day to withdraw from an academic course
October 8	Last day to change course status from credit to audit
October 11	Columbus Day - College closed
November 1	Finals for M/W classes
November 2	Final exam make up date
November 4	Grades due to Registrar by midnight
Fall Quick Term II: November 3-December 21, 2021	
October 18	Final cancellation of low enrolled classes
November 3	Classes begin
November 8	Last day to change a schedule
November 8	Last day to drop a course with no academic record
November 8	Last day to drop a course with 100% refund. No refund after this date.
November 8	Last day to change course status from audit to credit

Fall Quick Term II: November 3–December 21, 2021	
November 11	Veterans' Day – College closed
November 15	Advising/Registration for Spring 2022 begins for currently enrolled students
November 15	January Intersession 2022 registration begins for currently enrolled students
November 22	Spring 2022 registration begins for all students
November 22	January Intersession 2022 registration begins for all students
November 25	Thanksgiving Day – College closed
November 26	The College is open with minimal staffing. Classes are not held; classes resume on Monday.
December 3	Last day to withdraw from an academic course
December 3	Last day to change course status from credit to audit
December 13	Last day to resolve INC grades from Spring Semester 2021 and Summer Sessions 2021
December 14	Professional Day – All Q-term-2 day classes are cancelled; classes starting at 3:00pm or later will run as scheduled.
December 20	Final exams for M/W classes
December 21	Final exams for T/Th classes
December 25	Christmas Day – College closed
December 24, 27–31	College open with minimal staffing
January 1	New Year's Day – College closed (Saturday)
January 3	Final grades due to Registrar by noon

Intersession 2022

January Intersession: January 3–20, 2022	
November 15	January Intersession 2022 registration begins for currently enrolled students
November 22	January Intersession 2022 registration begins for all students
December 25	Christmas Day – College closed (Saturday)
December 24, 27–31	The College open with minimal staffing
December 27	Final cancellation of low enrolled courses
January 1	New Year's Day – College closed (Saturday)
January 3	Intersession 2022 courses begin
January 4	Last day to change a schedule
January 4	Last day to drop a course with no academic record
January 4	Last day to drop a course for 100% refund. No refund after this date.
January 4	Last day to change course status from audit to credit

January Intersession: January 3–20, 2022	
January 13	Last day to withdraw from an academic course
January 13	Last day to change course status from credit to audit
January 17	Martin Luther King Jr. Day – College closed
January 20	Last day of classes and final exams
January 24	Grades due to Registrar by noon

Spring 2022

Spring Semester: January 24–May 16, 2022	
January 1	New Year's Day – College closed (Saturday)
January 14	Final cancellation of low enrolled classes
January 17	Martin Luther King Jr. Day – College closed
January 20	Opening Day for Faculty and Professional Staff
January 24	Classes begin
January 31	Last day to change a schedule
January 31	Last day to drop a course with no academic record
January 31	Last day to drop a course for 100% refund. No refund after this date.
January 31	Last day to change course status from audit to credit
February 1	Deadline to file for May graduation
February 21	Presidents' Day – College closed
February 22	Summer 2022 registration begins
March 14–19	Spring recess (Monday–Saturday)
March 25	Mid-term warning grades due to Registrar
April 4	Advising/Registration for Fall 2022 begins for currently enrolled students
April 8	Last day to withdraw from an academic course
April 8	Last day to change course status from credit to audit
April 18	Patriots' Day – College closed
April 19	Fall 2022 registration begins for all students
May 6	Last day to resolve INC grades from Fall 2021 semester
May 6	Classes end
May 9	Study day
May 9	Professional Day – All Q-term-2 day classes are cancelled; classes starting at 3:00pm or later will run as scheduled.
May 10–16	Final exam period
May 19	Final grades due to Registrar by Noon
May 23 & May 24	Assessment Days
May 24	Approval of Graduates
May 25	Commencement

Spring Semester: January 24–May 16, 2022	
May 30	Memorial Day – College closed
December 12	Last day to resolve INC grades for Spring 2022 classes
Spring Quick Term I: January 24–March 22, 2022	
January 1	New Year's Day – College closed (Saturday)
January 14	Final cancellation of low enrolled classes
January 17	Martin Luther King Jr. Day – College closed
January 24	Classes begin for Quick Term-1
January 28	Last day to change a schedule
January 28	Last day to drop a course with no academic record
January 28	Last day to drop a course for 100% refund. No refund after this date.
January 28	Last day to change course status from audit to credit
February 25	Last day to withdraw from an academic course
February 25	Last day to change course status from credit to audit
February 22	Summer 2022 registration begins
March 14–19	Spring break (Monday–Saturday)
March 21	Final exams for M/W classes
March 22	Final exams for T/Th classes
March 23	Grades due to Registrar by noon
Spring Quick Term II: March 28–May 18, 2022	
February 22	Summer 2022 registration begins
March 14	Final cancellation of low enrolled classes
March 28	Classes begin for Spring Quick Term-2
April 1	Last day to change a schedule
April 1	Last day to drop a course with no academic record
April 1	Last day to drop a course with 100% refund. No refund after this date.
April 1	Last day to change course status from audit to credit
April 4	Advising/Registration for Fall 2022 begins for currently enrolled students
April 18	Patriots' Day – College closed
April 19	Fall 2022 registration begins for all students
April 29	Last day to withdraw from an academic course
April 29	Last day to change course status from credit to audit
May 6	Last day to resolve INC grades from the Fall 2021 semester
May 9	Professional Day – All Q-term-2 day classes are cancelled; classes starting at 3:00pm or later will run as scheduled.
May 17	Final exams for T/Th classes
May 18	Final exams for M/W classes

Spring Quick Term II: March 28–May 18, 2022	
May 20	Final grades due to Registrar by Noon
May 25	Commencement
May 30	Memorial Day – College closed

Summer 2022

Summer Session I: June 6–July 8, 2022	
February 22	Summer 2022 registration begins
May 27	Final Cancellation of low enrolled courses
May 30	Memorial Day – College closed
June 6	Summer Session I classes begin
June 8	Last day to change a schedule
June 8	Last day to drop a course for 100% refund. No refund after this date.
June 8	Last day to drop a course with no academic record
June 8	Last day to change course status from audit to credit
June 19	Juneteenth Independence Day (Sunday)
June 20	Juneteenth Independence Day observance
June 29	Last day to withdraw from an academic course
June 29	Last day to change a course status from credit to audit
July 4	Independence Day – College closed
July 7	Final exams for M/T/Th classes
July 8	Online classes end
July 11	Grades due to Registrar by noon
Summer Session II: July 11–August 12, 2022	
February 22	Summer 2021 registration begins
July 1	Final cancellation of low enrolled classes
July 4	Independence Day – College closed
July 11	Summer Session II classes begin
July 13	Last day to change a schedule
July 13	Last day to drop a course for 100% refund. No refund after this date.
July 13	Last day to change course status from audit to credit
July 13	Last day to drop a course with no academic record
August 3	Last day to withdraw from an academic course
August 3	Last day to change course status from credit to audit
August 11	Final exams for M/T/Th classes
August 12	Online classes end
August 15	Grades due to Registrar by noon
Summer Full-Session: June 6–August 12, 2022	
February 22	Summer 2021 registration begins
May 27	Final cancellation of low enrolled classes
May 30	Memorial Day – College closed

Summer Full-Session: June 6–August 12, 2022	
June 6	Summer Full-Session classes begin
June 10	Last day to change a schedule
June 10	Last day to drop a course for 100% refund. No refund after this date.
June 10	Last day to drop a course with no academic record
June 10	Last day to change course status from audit to credit
June 19	Juneteenth Independence Day (Sunday)
June 20	Juneteenth Independence Day observance
July 4	Independence Day - College closed
July 22	Last day to withdraw from an academic course
July 22	Last day to change course status from credit to audit
August 11	Final exam for M/T/Th classes
August 12	Online classes end
August 15	Grades due to Registrar by noon
December 12	Last day to resolve INC grades for Summer 2021

Degree Requirements

Students who matriculated at Cape Cod Community College follow the requirements in the catalog under which they originally matriculated.

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

AA - Associate in Arts Associate in Arts Degrees

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 non-STEM concentrations)

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 34 general education credits as follows:

ENL101 English Composition I	3 credits
ENL102 English Composition II	3 credits
Humanities and Fine Arts	9 credits
Behavioral and Social Sciences	9 credits
Natural or Physical Science	7 credits
Mathematics/Quantitative Reasoning	3 credits
Total Credits	34

Refer to [General Education courses](#).

4. Select the remaining 26 credits as required in the student's concentration.

Please note the following:

1. Students who are recommended to enroll in developmental courses in reading, writing, or mathematics should do so during their first semester.
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 degree is [MassTransfer eligible](#) when the curriculum includes the MassTransfer block.

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

Students required to take developmental coursework may need an additional semester(s) to complete their degree requirements.

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 is responsible for having reliable access to both the Internet and a computer running Chrome or Firefox. Please visit [Online & Blended Learning](#) for more information detailing online course requirements.

The Associate in Arts degree is [MassTransfer eligible](#). 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.

Associate in Arts Degree Requirements (for STEM concentrations: Biology, Chemistry, Computer Science, Mathematics, Physics)

For the Associate in Arts degree in the above listed concentrations, 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 28 general education credits as follows:

ENL101 English Composition I	3 credits
ENL102 English Composition II	3 credits
Humanities and Fine Arts	6 credits
Behavioral and Social Sciences	6 credits
Natural or Physical Science	7 credits
Mathematics/Quantitative Reasoning	3 credits
Total Credits	28

Refer to [General Education courses](#).

4. Select the remaining 32 credits as required in the student's concentration.

Please note the following:

1. Students who are recommended to enroll in developmental courses in reading, writing, or mathematics should do so during their first semester.
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 degree is [MassTransfer eligible](#) when the curriculum includes the MassTransfer block.

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

Students required to take developmental coursework may need an additional semester(s) to complete their degree requirements.

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 is responsible for having reliable access to both the Internet and a computer running Chrome or Firefox. Please visit [Online & Blended Learning](#) for more information detailing online course requirements.

The Associate in Arts degree is [MassTransfer eligible](#). 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.

Prerequisites

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.

Integrity of Credit

A credit hour is an amount of work represented in intended learning outcomes and verified by evidence of student achievement that is an institutionally and contractually established equivalency which reasonably (is) not less than:

1. One hour of classroom or direct faculty instruction and a minimum of two hours of out-of-class student work each week for approximately fifteen weeks for one semester or the equivalent amount of work over a different amount of time; **or**
2. At least an equivalent amount of work as required for other activities, including laboratory work, internships, practica, studio work, and other academic work leading toward the award of credit hours.

Explanation

For example:

- 1-credit course = 50 (50 minute hour) minutes/week in direct contact with learning activities and an additional 100 (50 minute hour) minutes in additional course related work each week for 15 weeks.
- 3-credit course = 150 (50 minute hour) minutes/week in direct contact with learning activities and an additional 300 minutes in additional course related work each week for 15 weeks.
- 4-credit course = 200 (50 minute hour) minutes/week in direct contact with learning activities and an additional 400 minutes in additional course related work each week for 15 weeks

Transfer to Cape Cod Community College

The College will consider and accept credits, subject to its standards, from other accredited institutions. Refer to [Transfer to Cape Cod Community College](#).

Intent to Graduate

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.
- 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, Associate in Applied Science or Associate in Science Degree Requirements.

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.

AAS- Associate in Applied Science

The Associate in Applied Science

The Associate of Applied Science Degree programs provides students with course work in general education and a curriculum preparing graduates to seek careers in highly technical fields immediately upon graduation in areas such as aviation maintenance.

The Associate in Applied Science programs are intended to prepare people for employment and thus a majority of the coursework involved may be directly related to occupational skills (Board of Regents of Higher Education Final Report: The Undergraduate Experience, 1989, page 17).

Associate in Applied Science Degree Requirements

For the Associate in Applied 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 20 general education credits as follows:

ENL101 English Composition I	3 credits
Humanities and Fine Arts	3 credits
Behavioral and Social Sciences	3 credits
Mathematics/Quantitative Reasoning (or) Natural or Physical Science	3/4 credits
General Education Elective	7/8 credits
Total Credits	20

Refer to [General Education courses](#).

4. Complete the professional education credits required by a particular program as outlined in this catalog.

Each Associate in Applied Science program has specific course requirements listed on the program pages.

To graduate with an Associate in Applied Science degree, a student must follow the curriculum as

they appear in the program 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 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 is responsible for having reliable access to both the Internet and a computer running Chrome or Firefox. Please visit [Online & Blended Learning](#) for more information detailing online course requirements.

Prerequisites

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.

Integrity of Credit

A credit hour is an amount of work represented in intended learning outcomes and verified by evidence of student achievement that is an institutionally and contractually established equivalency which reasonably (is) not less than:

1. One hour of classroom or direct faculty instruction and a minimum of two hours of out-of-class student work each week for approximately fifteen weeks for one semester or the equivalent amount of work over a different amount of time; **or**
2. At least an equivalent amount of work as required for other activities, including laboratory work, internships, practica, studio work, and other academic work leading toward the award of credit hours.

Explanation

For example:

- 1-credit course = 50 (50 minute hour) minutes/week in direct contact with learning activities and an additional 100 (50 minute hour) minutes in additional course related work each week for 15 weeks.
- 3-credit course = 150 (50 minute hour) minutes/week in direct contact with learning activities and an additional 300 minutes in additional course related work each week for 15 weeks.
- 4-credit course = 200 (50 minute hour) minutes/week in direct contact with learning activities and an additional 400 minutes in additional course related work each week for 15 weeks

Transfer to Cape Cod Community College

The College will consider and accept credits, subject to its standards, from other accredited institutions. Refer to [Transfer to Cape Cod Community College](#).

Intent to Graduate

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.
- 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, Associate in Applied Science or Associate in Science Degree Requirements.

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.

AS - Associate in Science Associate in Science Degrees

The Associate in Science programs provide students with general education and professional skills coursework to enter the workforce in their chosen profession. The Business Administration and Early Childhood Education-Transfer Compact Programs are 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	3 credits
Humanities and Fine Arts*	3 credits
Behavioral and Social Sciences	6 credits
Mathematics/Quantitative Reasoning (or) Natural or Physical Science	6-8 credits
General Education	3 credits
Total Credits	21-23

Refer to [General Education courses](#).

4. Complete 37-39+ professional education credits required by a particular program.

*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. To graduate with an Associate in Science degree, a student must follow the curriculum as they appear in the Program. 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 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 is responsible for having reliable access to both the Internet and a computer running Chrome or Firefox. Please visit [Online & Blended Learning](#) for more information detailing online course requirements.

Prerequisites

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.

Integrity of Credit

A credit hour is an amount of work represented in intended learning outcomes and verified by evidence of student achievement that is an institutionally and contractually established equivalency which reasonably (is) not less than:

1. One hour of classroom or direct faculty instruction and a minimum of two hours of out-of-class student work each week for approximately fifteen weeks for one semester or the equivalent amount of work over a different amount of time; **or**
2. At least an equivalent amount of work as required for other activities, including

laboratory work, internships, practica, studio work, and other academic work leading toward the award of credit hours.

Explanation

For example:

- 1-credit course = 50 (50 minute hour) minutes/week in direct contact with learning activities and an additional 100 (50 minute hour) minutes in additional course related work each week for 15 weeks.
- 3-credit course = 150 (50 minute hour) minutes/week in direct contact with learning activities and an additional 300 minutes in additional course related work each week for 15 weeks.
- 4-credit course = 200 (50 minute hour) minutes/week in direct contact with learning activities and an additional 400 minutes in additional course related work each week for 15 weeks

Transfer to Cape Cod Community College

The College will consider and accept credits, subject to its standards, from other accredited institutions. Refer to [Transfer to Cape Cod Community College](#).

Intent to Graduate

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.
- 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, Associate in Applied Science or Associate in Science Degree Requirements.

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 Courses

Note: Students who matriculate at Cape Cod Community College 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	3 credits
Humanities and Fine Arts	3 credits
Behavioral and Social Sciences	6 credits
Mathematics/Quantitative Reasoning (or) Natural or Physical Science	6-8 credits
General Education Elective	3 credits
Total Credits	21-23*

*Associate in Arts degree students take additional general education coursework to satisfy the MassTransfer Block

Listing of General Education Courses

The following courses satisfy General Education requirements for the Associate in Arts, Associate in Applied Science, and the Associate in Science degrees. Check each program for specific requirements.

Behavioral & Social Sciences		Credits
ANT107	Introduction to Anthropology	3
ANT211	Comparative Cultures	3
ANT215	Peoples and Cultures of the Middle East	3
COM204	Persuasive Communication	3
CRJ105	Criminology, Theory, and Practice	3
ECO117	Principles of Macroeconomics	3
ECO118	Principles of Microeconomics	3
ECO155	Emerging Market Economies	3
ECO157	Global Economics	3
GEO104	Geography: Culture & Environment	3
GOV101	Comparative Politics	3
GOV102	International Relations	3
GOV111	American Government	3
HIS103	US History to 1865	3
HIS104	US History since 1865	3
HIS108	US History since 1945	3
HIS119	World History to 1500 CE	3
HIS120	World History from 1500 CE	3
HIS160	European History to 1600 CE	3
HIS162	European History from 1600 CE	3
HIS201	History of China	3
HIS206	Ancient History	3
HIS207	Medieval History	3
HIS215	Women in US History	3
HIS216	History of Japan	3
HIS217	The Civil War	3
HIS227	History of the Middle East (retired)	3
HIS228	Women in European History	3
HIS241	Selected Topics in History	3
HIS255	History of Vietnam	3
HIS258	African American History	3
HUS101	Introduction to Human Services	3
HUS201	The Helping Relationship: Human Services Delivery (retired)	3
PHI130	Introduction to Philosophy	3
PHI131	Logic	3
PHI160	Three Great Thinkers	3
PHI201	Existentialism	3
PHI210	Ethics	3
PSY101	General Psychology	3
PSY201	Child Psychology	3
PSY202	Adolescent Psychology	3

Behavioral & Social Sciences		Credits
PSY205	Adult Psychology	3
PSY207	Abnormal Psychology	3
PSY208	Principles of Counseling & Crisis Intervention	3
PSY210	Psychology of Grief	3
PSY212	Human Sexuality	3
PSY219	Psychology of Women	3
PSY225	Social Psychology	3
PSY233	Developmental Psychology: The Life Span	3
PSY235	Cognitive Psychology	3
PSY241	Selected Topics in Psychology	3
SOC106	Principles of Sociology	3
SOC205	Juvenile Delinquency (retired)	3
SOC208	Race, Gender, & Class in the US (retired)	3
SOC209	Sociology of Race & Ethnicity	3
SOC210	Marriage and Family	3
SOC215	Social Problems	3
SOC230	Peoples and Cultures in Africa (retired)	3

English Composition/Writing Credits

ENL101	English Composition I	3
ENL102	English Composition II	3

Humanities & Fine Arts		Credits
ART100	Drawing I	3
ART101	Design I	3
ART103	Painting I	3
ART105	Visual Fundamentals (retired)	
ART109	Art Appreciation (retired)	3
ART125	History of Art: Stone Age to Gothic	3
ART126	History of Art: Renaissance to Romanticism (retired)	3
ART134	History of Art: Renaissance to Modern	3
ART136	Three-Dimensional Design	3
ART205	Illustration (Adobe Illustrator®) (retired)	3
ART207	Graphic Design I	3
ART209	Printmaking Techniques	3
ART214	Digital Imaging (Adobe Photoshop®) (retired)	3
ASL101	American Sign Language I	3
ASL102	American Sign Language II	3
COM103	Human Communication	3
COM105	Survey of Mass Communication	3
COM120	Introduction to Film	3
COM201	Interpersonal Communication	3
COM203	Public Speaking	3
COM204	Persuasive Communication	3
COM207	Argumentation and Debate	3
COM215	Social Media Marketing & Communications	3
COM221	American Film	3
COM222	International Cinema	3
DAN120	Modern Dance Techniques	3
ENL102	English Composition II	3

Humanities & Fine Arts		Credits
ENL108	Critical Reading and Thinking	3
ENL110	Introduction to Literature	3
ENL120	Introduction to Children's Literature	3
ENL131	Technical Writing	3
ENL135	Short Stories & Human Values	3
ENL150	World Mythologies	3
ENL161	Journalism I	3
ENL170	Producing a Magazine of the Arts	3
ENL201	World Literature I: Early World Literature	3
ENL202	World Literature II: Enlightenment to the Present	3
ENL203	British Literature I: Medieval Period through the Enlightenment	3
ENL204	British Literature II: Romantic Age to the Present	3
ENL205	American Literature to 1890: The Emergence of American Literature	3
ENL206	American Literature since 1890: Defining the American Identity	3
ENL209	Creative Writing	3
ENL210	Exploring Modern Poetry	3
ENL215	World Religions in Literature	3
ENL217	Exploring the World of Science Fiction	3
ENL219	Masters of Horror	3
ENL228	Women Writers	3
ENL290	Selected Topics in Literature	3
ENL291	Selected Topics in Writing	3
FRN101	Elementary French I	4
FRN102	Elementary French II	4
FRN201	Intermediate French I	4
FRN202	Intermediate French II	4
GER101	Elementary German I	4
GER102	Elementary German II	4
GER201	Intermediate German I	4
GER202	Intermediate German II	4
HUM102	Humanities: Perception through the Arts	3
MUS100	Music Appreciation	3
MUS101	Music Theory I	3
MUS102	Music History I	3
MUS103	Music History II	3
MUS116	History of Rock Music	3
MUS202	Music Theory II	3
PHI131	Logic	3
PHI160	Three Great Thinkers	3
PHI201	Existentialism	3
PHI210	Ethics	3
SPN101	Elementary Spanish I	3
SPN102	Elementary Spanish II	4
SPN105	Elementary Spanish I for Health Care Professionals	4
SPN201	Intermediate Spanish I	4
SPN202	Intermediate Spanish II	4

Humanities & Fine Arts		Credits
THR101	Introduction to Theater	3
THR103	Acting I	3
THR106	Theater History	3
THR113	Rehearsal & Performance	3
Interdisciplinary Studies		Credits
BIT103	Medical Terminology	3
BIT175	Visual Basic Programming (retired)	3
BUS175	My Finances	3
COL101	The College Experience	3
COM209	Event Planning (retired)	3
COM216 HRM216	Event Planning and Management	3
ENR101	Introduction to Engineering and Advanced Manufacturing	4
ENR102	3D Mechanical Design I (retired)	4
ENR103	Introduction to Robotics	4
GIT110	Computer Applications	3
HEA120	Stress Management for Optimal Health	3
SCI150	Scientific Writing & Presentation	3
Mathematics/Quantitative Reasoning		Credits
MAT121	Math for Elementary & Early Childhood Educators	3
MAT130	Quantitative Reasoning	3
MAT140	Survey of Mathematics (retired)	3
MAT150	Elementary Statistics	3
MAT165	Finite Math	3
MAT171	Precalculus Math I (retired)	4
MAT175	College Algebra	4
MAT220	Discrete Mathematics & Introduction to Proofs	4
MAT240	Calculus I	4
Natural or Physical Science		Credits
AST101	Fundamentals of Astronomy	4
AST102	Astronomy II	4
BIO103	Consumer Nutrition	3
BIO105	Survey of Human Anatomy & Physiology	4
BIO109	Survey of Biology	4
BIO141	Survey of Microbiology	4
BIO151	General Biology I	4
BIO152	General Biology II	4
BIO161	The Microbial World (retired)	4
BIO204	Introduction to Public Health	3
BIO205	General Ecology	4
BIO210	Bird Biology	4
BIO241	Cell Biology (formerly BIO202)	4
BIO251	Human Anatomy & Physiology I	4
CHM106	Survey of Chemistry	4
CHM109	Chemistry for the Health Sciences	4
CHM151	General Chemistry I	4
CHM152	General Chemistry II	4
ENR106	3D Design & Analysis	4

Natural or Physical Science		Credits
ENV118	Introduction to Environmental Science	4
ENV120	Introduction to Environmental Science (Lecture only)	3
ENV125	Coastal Ecology	3
ENV165	Renewable Energy, Climate and Careers	3
ESC101	Introduction to Earth Science	4
ESC105	Fundamentals of Oceanography	4
HOR101	Plant & Soil Science	4
PHY106	Survey of Physics	4
PHY151	Physics I	4
PHY152	Physics II	4
PHY211	University Physics I	4
PHY212	University Physics II	4

Note: 100-level courses are generally designed for first-year students; 200-level courses are generally designed for second-year students.

General Education Requirements

The General Education Courses satisfy General Education requirements for the Associate in Arts and the Associate in Science degrees. These requirements are noted on program pages.

Check the Associate in Arts concentrations, Associate in Applied Science programs, and the Associate in Science programs, for details about specific course requirements.

General Education Criteria

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

Accreditation

Review our institutional and programmatic accreditation.

Cape Cod Community College

Cape Cod Community College is accredited by the New England Commission of Higher Education (NECHE).

Inquiries regarding the accreditation status by the Commission should be directed to the administrative staff of the institution. Individuals may also contact:

New England Commission of Higher Education
 3 Burlington Woods Drive, Suite 100
 Burlington, MA 01803-4514
 Phone: (781) 425 7700
 FAX: 781-425-1001
 E-Mail: info@neche.org
 Web: www.neche.org/

Program Accreditation and Approval Statements

Aviation Maintenance Technology

The [Aviation Maintenance Technology](#) program is certified by the U.S. Department of Transportation – Federal Aviation Administration (FAA) for Airframe, Powerplant, and Airframe & Powerplant ratings: Number 61CT616K.

Individuals may contact the regional FAA office:

Burlington FSDO
 12 New England Executive Park
 Burlington, MA 01803
 (781) 238-7500

Criminal Justice

The [Criminal Justice](#) program is certified by the Massachusetts Department of Higher Education Criminal Justice Program Review Committee.

Department of Higher Education
 One Ashburton Place, Room 1401
 Boston, MA 02108-1696
 (617) 994-6950

Dental Hygiene

The Cape Cod Community College [Dental Hygiene](#) program is accredited by the Commission on Dental Accreditation and has been granted the accreditation status of “approval without reporting requirements”. The Commission is a specialized accrediting body recognized by the United States Department of Education.

Commission on Dental Accreditation
 211 East Chicago Avenue
 Chicago, IL 60611
 Phone: 312.440.4653
 Web: www.ada.org/en/coda/accreditation

Early Childhood Education

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

National Association for the Education of Young Children

1313 L Street NW, Suite 500
Washington, DC 20005-4101
(202) 232-8777

See also: [Early Childhood Education Program Outcomes](#)

EMT (Emergency Medical Technician)

EMT: Cape Cod Community College, W. Barnstable, MA

Approved Levels: EMT
Region V

MA DPH accreditation expires 1/1/2025
www.mass.gov/massachusetts-ems-accredited-training-institutions

Funeral Service

The Funeral Service Program at Cape Cod Community College received Initial Accreditation status by the American Board of Funeral Service Education (ABFSE), 992 Mantua Pike, Suite 108, Woodbury Heights, NJ 08097 (816) 233-3747.
Web: www.abfse.org.

Human Services

Cape Cod Community College has been approved by the Department of Public Health Bureau of Substance Abuse Services as an Addiction Education Provider for its Alcohol & Substance Abuse Counselor Certificates.

The Commonwealth of Massachusetts
Executive Office of Health & Human Services
Department of Public Health
250 Washington Street, Boston, MA 02108-4619
Phone: 617.624.5173
Web: www.mass.gov/eohhs/gov/departments/dph/

Medical Assisting

The [Medical Assisting](#) Certificate is accredited by the Commission on Accreditation of Allied Health Education Programs 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
Phone: 727.210.2350
Web: www.caahep.org

Nursing

The Associate in Science in [Nursing](#) (ASN) Program is approved by the **Massachusetts Board of Registration in Nursing** (MA-BORN).

Massachusetts Board of Registration in Nursing

Commonwealth of Massachusetts
239 Causeway Street, Suite 500 5th Floor
Boston, MA 02114
Phone: 617-973-0900
Fax: 617-973-0984
Web: www.ncsbn.org/index.htm

The Associate in Science in [Nursing](#) (ASN) program is accredited by the **Accreditation Commission for Education in Nursing** (ACEN).

Accreditation Commission for Education in Nursing, Inc.

3390 Peachtree Road NE, Suite 1400
Atlanta, GA 30326
Phone: (404) 975-5000
FAX: 404.975.5020
Web: www.acenursing.org/

Programs Seeking Accreditation

Paramedic

Statement of Status - Committee on Accreditation for the EMS Professions (CoAEMSP)

The Cape Cod Community College Paramedic Certificate program has been issued a Letter of Review by the Committee on Accreditation of Educational Programs for the Emergency Medical Services Professions (CoAEMSP Executive Office). This letter is NOT a CAAHEP accreditation status, it is a status signifying that a program seeking initial accreditation has demonstrated sufficient compliance with the accreditation Standards through the Letter of Review Self Study Report (LSSR) and other documentation. Letter of Review is recognized by the National Registry of Emergency Medical Technicians (NREMT) for eligibility to take the NREMT's Paramedic credentialing examination(s). However, it is NOT a guarantee of eventual accreditation.

Contact CoAEMSP Executive Office:
8301 Lakeview Parkway, Suite 111-312
Rowlett, TX 75088

214-703-8445
FAX 214-703-8992
www.coaemsp.org

Tuition & Fees

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.

All obligations to the College must be paid prior to the beginning of classes each semester. Refer to the [Academic Calendar](#) for due dates. The full-time tuition and fees listed here are based upon 30 credit hours of enrollment per year.

See [Tuition & Fee Schedule](#) to review current tuition and fees by credit hour.

Tuition and Fees

Full-time Tuition and Fees (per year)	
Massachusetts residents	\$6,690.00
Non-residents	\$12,870.00
Tuition and Fees per credit hour	
Massachusetts residents	\$223.00
Non-residents	\$429.00

The above includes the following:

- \$9 per credit hour Facility fee
- \$10 per credit hour Tech Fee
- \$180 per credit hour Student Fee
- \$24.00 MA Resident / \$230.00 Non-Resident per credit hour Tuition

Other Fees	
Arts Materials fee	\$5 per credit hour of course
Applied Music fee	\$400 per course
Books and supplies (estimate)	\$1,250 per year, full-time
Challenge Exam fee	\$40 admin fee + \$40 per credit hour of course
Culinary Arts/Hospitality Program fee	\$10 per credit hour of course
Dental Hygiene Program fee	\$125 per credit hour of course
EMT fee	\$125 one-time program fee
Funeral Service Program fee*	\$125 per credit hour of course
Health Insurance	\$3,599 estimate per year (9 credits or more)
Health Sciences (Dental Hygiene, EMT/Paramedic, Medical Assisting, Nursing) fee	\$37 per credit hour of course

Other Fees	
Medical Assisting Program fee	\$75 one-time program fee
Nursing - drug testing fee	\$50 one-time drug testing fee
Nursing Program fee	\$125 per credit hour of course
Lab fee	\$25 per lab
Radio Broadcasting fee	\$35 per credit hour of course

Note: Other courses may also require special fees.

*Funeral Service Program students have to attain a parking decal, student support and a connect card provided by BSU (which are required by all students on BSU campus during Fall and Spring semesters). Students will be billed by CCCC on behalf of BSU for following fees:

- \$25 for Connect Card(to be picked up at BSU office)
- \$200 Student Support
- \$245 Parking Decal(to be picked up at BSU office)

Aviation Maintenance Technology (AMT) Program Tuition and Fees		
Massachusetts Resident		
Smester/Course Fees	Credits	Cost
AMT 110	6	\$1,116.00
Textbooks and Test Guides		\$244.26
Supplies		\$215.80
Uniform		\$129.32
Took Kit		\$1,629.43
MA In-State Tuition		\$144.00
Student Fee		\$1,080.00
Facility Fee		\$54.00
Technology Fee		\$60.00
AMT120	6	\$1,116.00
MA In-state Tuition		\$144.00
Studnet Fee		\$1,080.00
Facility Fee		\$54.00
Technology Fee		\$60.00
FAA General Certification Fee		\$175.00
AMT210 Airframe	8	\$1,488.00
MA In-state Tuition		\$192.00
Student Fee		\$1,440.00
Facility Fee		\$72.00
Technololgy Fee		\$80.00
AMT220	10	\$1,860.00
MA In-state Tuition		\$240.00
Student Fee		\$1,800.00
Facility Fee		\$90.00

Aviation Maintenance Technology (AMT) Program Tuition and Fees		
Technology Fee		\$100.00
FAA Airframe Written Certification Fee		\$175.00
FAA General Oral and Practical Certification Fee		\$1,000.00
AMT230 Powerplant	10	\$1,860.00
MA In-state Tuition		\$240.00
Student Fee		\$1,800.00
Facility Fee		\$90.00
Technology Fee		\$100.00
AMT240	8	\$1,488.00
MA In-state Tuition		\$192.00
Student Fee		\$1,440.00
Facility Fee		\$72.00
Technology Fee		\$80.00
FAA Powerplant Written Certification Fee		\$175.00
FAA Powerplant Oral and Practical Certification Fee		\$500.00
		\$23,875.81
Non-Resident		
Semester/Course Fees	Credits	Cost
AMT110	6	\$1,116.00
Textbooks and Test Guides		\$244.26
Supplies		\$215.80
Uniform		\$129.32
Tool Kit		\$1,629.43
Non-resident Tuition		\$1,380.00
Student Fee		\$1,080.00
Facility Fee		\$54.00
Technology Fee		\$60.00
AMT120	6	\$1,116.00
Non-resident Tuition		\$1,380.00
Student Fee		\$1,080.00
Facility Fee		\$54.00
Technology Fee		\$60.00
FAA General Certification Fee		\$175.00
AMT210 Airframe	8	\$1,488.00
Non-resident Tuition		\$1,840.00
Student Fee		\$1,440.00
Facility Fee		\$72.00
Technology Fee		\$80.00
AMT220	10	\$1,860.00
Non-resident Tuition		\$2,300.00
Student Fee		\$1,800.00
Facility Fee		\$90.00
Technology Fee		\$100.00
FAA Airframe Written Certification Fee		\$175.00
FAA General Oral and Practical Certification Fee		\$1,000.00
AMT230 Powerplant	10	\$1,860.00

Aviation Maintenance Technology (AMT) Program Tuition and Fees		
Non-resident Tuition		\$2,300.00
Student Fee		\$1,800.00
Facility Fee		\$90.00
Technology Fee		\$100.00
AMT240	8	\$1,488.00
Non-resident Tuition		\$1,840.00
Student Fee		\$1,440.00
Facility Fee		\$72.00
Technology Fee		\$80.00
FAA Powerplant Written Certification Fee		\$175.00
FAA Powerplant Oral and Practical Certification Fee		\$500.00
		\$33,763.81

Note: completion of the FAA component of the program does not require completion of the College certificate. However, employers have strongly encouraged students to get an Associate's degree or a Bachelor's degree.

Paramedic Program Tuition and Fees						
Massachusetts Resident						
Program	Credits	Tuition	Program Fee	Lab Fee	Certification/ FAA Exam Fee	Total
EMS 203-Advanced Pre-Hospital Training Program: Paramedic I	10	\$2,600	\$1,050	\$275	-	\$3,925
EMS 204-Advanced Pre-Hospital Training Program: Paramedic II	10	\$2,600	\$1,050	\$275	\$200	\$4,125
EMS 211-Paramedic Clinical Experience	5	\$1,300	\$525	\$275	\$800	\$2,900
EMS 221-Paramedic Field Internship & Capstone	4	\$1,040	\$420	\$275	-	\$1,735
						\$12,685
Non-Resident						
Program	Credits	Tuition	Program Fee	Lab Fee	Certification/ FAA Exam Fee	Total
General AMT 101 & AMT 102	10	\$4,660	\$1,050	\$275	-	\$5,985

Paramedic Program Tuition and Fees						
Airframe AMT 201 & AMT 202	10	\$4,660	\$1,050	\$275	\$200	\$6,185
Powerplant AMT 203 & AMT 204	5	\$2,330	\$525	\$275	\$800	\$3,930
	4	\$1,864	\$420	\$275	-	\$2,559
						\$18,659

Paramedic Tuition and Fees Detail:	Res	NonRes
Tuition- Per Credit Hour	\$24	\$230
Student Fees- Per Credit Hour	\$199	\$199
Program Specific Fees- Per Credit Hour	\$125	\$125
Health Science Fee- Per Credit Hour	\$37	\$37
Paramedic Lab Fee- Per Semester	\$275	\$275
Paramedic Drug Testing Fee- One-Time Fee	\$50	\$50
Certification Exam Fees- Program(5 Exams)*	\$1,000	\$1,000

***Paramedic Certifications:**

- Prehospital life Support - PHTLS (NAEMT) - \$200
- Advanced Medical Life support -AMLS (NAEMT) - \$200
- Tactical Emergency Casualty Care - TECC(NAEMT) - \$200
- Geriatric Education for Emergency Medical Services - (NAEMT) - \$200
- Pediatric Advanced Life Support - PALS(AHA) - \$200

Project Forward	
Tuition	\$2,260 per Semester

Payment Information

Payment due dates are firm. Please take a look at our payment options and payment plans to make sure you don't miss out. For assistance with our available payment options, contact the Business Office at 508.375.4123.

In Person - Students may visit the Business Office, and pay in-person. The Business Office is open Monday through Friday, 8:30am-4:30pm. Credit Card (Visa, MC, Discover), cash, check and money order are acceptable forms of payment.

On-Line - Payments may be made utilizing [CampusWeb](#). Forms of acceptable payments are Visa, MC, Discover, AmEx and ACH.

Payment Plan

Payments may be made in installments, utilizing NELNET. Credit card and ACH payments are accepted.

For additional information: www.mycollegepaymentplan.com/capecod

Plan Ahead

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 25% of the past due balance.

Tuition Waivers

Tuition waivers cover the amount of tuition only, which is approximately 15% of the class price. Recipients are responsible for all remaining class fees.

If you are a Massachusetts resident you may be eligible for tuition waivers if you are:

- Sixty years of age or older
- A Native American
- A client of the Massachusetts Rehabilitation Commission or the Commission for the Blind
- An active duty service person
- A Veteran of the U. S. military
- An adopted or former foster child through the Department of Social Services (until age 24)
- 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 in the [Categorical Tuition Waiver Application](#)

For additional information, contact the [Financial Aid Office](#).

See also: [Military Benefits for Tuition and Fees](#)

Tuition Refunds

Students who withdraw from classes may be due a refund 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 during the first week of the semester. 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.

Change to Federal and State financial aid funds and Active Duty Tuition Assistance will be paid based on the number of days enrolled. These resources are not fully “earned” until the student has attended at least 60% of the term (usually 9 weeks of a full semester). Withdrawals prior to the 60% point require recalculation and repayment based on the number of days attended.

- A full refund is made if a course is cancelled by the College.
- To withdraw from a course after the first scheduled class, follow the [Withdrawal Policy](#).
- The above policy does not pertain to courses that meet for fewer than five sessions.

Massachusetts National Guard Reimbursements

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

Veteran's Benefits

Cape Cod Community College welcomes and appreciates our veterans. 4Cs has VA approval for educational training of veterans and their dependents including all chapters of the GI Bill®.

The Financial Aid Office certifies payment for all VA Education Benefits. Veterans receive assistance obtaining tuition waivers and GI Bill® payments. The office provides application materials, contact information, and certifies enrollment.

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.

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. Students utilizing VA educational benefits will be charged in-state resident rates. 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 for classes, the Financial Aid Office will certify and monitor enrollment.

Cape Cod Community College will adhere to the requirements of and comply with S2248 PL 115-407 Section 103.

GI Bill® is a registered trademark of the U.S. Department of Veterans Affairs (VA). More information about education benefits offered by VA is available at the official U.S. government website: <https://benefits.va.gov/gibill/>.

More Information

Financial Aid: 774.330.4393

Military and Veterans Services: 774-330-4315

See also: [Military Benefits for Tuition and Fees](#)

Tuition and Fees are Subject to Change

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.

1098-T

To access your 1098-T, go to <https://tra.maximus.com/>

Contact the Business Office

Business Office	
Location	Nickerson Administration Building, Room 116
Hours	Monday-Friday: 8:30am-4:30pm
Phone	508.375.4123
Toll Free	877.846.4093
Fax	508.375.4093
E-mail	studentaccounts@capecod.edu

Trustees/Executive Officers

4Cs governance and chief administration.

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New to 4Cs?

Contact Admissions and learn all the ways we can help you reach your career goals.

Admissions Office
Phone [774.330.4311](tel:774.330.4311)
E-mail admiss@capecod.edu
Online [Apply to 4Cs](#)

Degrees & Certificates Arts & Communication

Contact the Department of Arts & Communication

Department of Arts & Communication

Location Tilden Arts 212

Phone 774.330.4325

Communication Concentration

Degree Type

Associate in Arts

The Communication concentration offers a sequence of diverse courses for students who plan to transfer to a four-year institution with a focus on liberal arts in the communication field. Students learn how to observe and interpret human communication in a variety of contexts: cultural, personal, relational, and technological. Students interested in pursuing television production and direction, film studies, or radio broadcasting are encouraged to investigate the Media Studies concentration.

Students who are matriculated and place into developmental math and/or English are required to begin the course sequence in the first semester. Please see an [advisor](#).

Transfer Information

[Communication](#)

Requirements

First Semester

Item #	Title	Credits
ENL101	English Composition I	3
COM103	Human Communication	3
PSY101	General Psychology	3
	Mathematics/Quantitative Reasoning	3-4
	Elective	3

Second Semester

Item #	Title	Credits
ENL102	English Composition II	3
COM201	Interpersonal Communication	3
COM207	Argumentation & Debate	3
	Natural or Physical Science	3-4
	Elective	3

Third Semester

Item #	Title	Credits
COM203	Public Speaking	3
	Natural or Physical Science	4
	Behavioral & Social Sciences	3
	Concentration Elective	3
	Elective	3

Fourth Semester

Item #	Title	Credits
COM204	Persuasive Communication	3
	Behavioral & Social Sciences	3
	Concentration Elective	3
COM120	Introduction to Film	3
	Elective (2-3)	2-3

Note: The Associate in Arts degree does not indicate a specialized degree in a concentration. Students who complete this concentration will satisfy the requirements of [MassTransfer](#). For additional information pertaining to degree requirements, please refer to [Degree Requirements](#).

Total Credits

60-63

Career Outlook

Prospects for employment are incredibly diverse, and individuals with degrees in communication might pursue careers in teaching, government, law enforcement, theater and film, script and speech writing, public relations, marketing and promotion, management, human resources, social work, or a variety of other fields. Students with this degree might choose to transfer to a four-year institution to pursue a bachelor's degree or they may immediately enter the workforce.

This [occupational profile](#) is provided by O*NET.

See also: [What can I do with this major?](#)

Graphic Design Concentration

Degree Type

Associate in Arts

The Graphic Design concentration provides foundation courses needed for transfer. This concentration is a MassTransfer eligible concentration, providing transfer opportunities within the Massachusetts Public Higher Education system. [MassTransfer](#) provides additional information on transfer opportunities. Students may also choose to transfer to other colleges or universities to continue their art studies.

Students who are matriculated and place into developmental math and/or English are required to begin the course sequence in the first semester. Please see an [advisor](#) with questions.

Portfolio

[Preparation & Resources](#)

Transfer Information

[Regional Resources](#)

Requirements

First Semester

Item #	Title	Credits
ENL101	English Composition I	3
ART125	History of Art: Stone Age to Gothic	3
ART100	Drawing I	3
ART101	Design I	3
ART171	Computer Graphics I (Adobe Photoshop, Illustrator, InDesign)	3

Second Semester

Item #	Title	Credits
ENL102	English Composition II	3
ART200	Drawing II	3
ART207	Graphic Design I	3
ART136	Three-Dimensional Design	3
ART134	Art History: Renaissance to Modern	3
ART219	Portfolio Preparation for Artists and Graphic Designers	1

Third Semester

Item #	Title	Credits
	Natural or Physical Science	4
	Behavioral & Social Sciences	3
ART218	Typography	3
	Mathematics/Quantitative Reasoning	3-4
ART137	History of Graphic Design	3

Fourth Semester

Item #	Title	Credits
	Behavioral & Social Sciences	3
ART231	Computer Graphics II (Adobe Photoshop, Illustrator, InDesign)	3
ART208	Graphic Design II	3
	Natural or Physical Science	3-4
	Behavioral & Social Sciences	3

Note: The Associate in Arts degree does not indicate a specialized degree in a concentration. Students who complete this concentration will satisfy the requirements of [MassTransfer](#). For additional information pertaining to degree requirements, please refer to [Degree Requirements](#).

Plan your schedule.

Review which classes will run during [upcoming semesters](#).

Related Information:

- [Higgins Art Gallery](#)
- [Tilden Arts Center](#)

Total Credits

62-64

Career Outlook

The Graphic Design concentration prepares students to continue their studies and complete a bachelor's degree. There are some entry-level positions in print shops, advertising agencies, publication or packaging firms that may require some basic layout and pre-press skills. Employment as a designer is rare with an Associate's degree. Students are encouraged to continue their studies.

This [occupational profile](#) is provided by O*NET.

See also: [What can I do with this major?](#)

Media Studies Concentration

Degree Type

Associate in Arts

The Media Studies concentration is for students interested in pursuing television production and direction, film studies, or radio broadcasting. The concentration provides fundamental courses in video and radio production and direction, and film studies. This skills-oriented degree is designed to provide students with proficiency in operating various broadcast technologies in professional settings.

Students who are matriculated and place into developmental math and/or English are required to begin the course sequence in the first semester. Please see an [advisor](#) with questions.

Transfer Information

[MassTransfer & more](#)

Requirements

First Semester

Item #	Title	Credits
ENL101	English Composition I	3
	Mathematics/Quantitative Reasoning	3-4
COM103	Human Communication	3
PSY101	General Psychology	3
	Elective	3

Second Semester

Item #	Title	Credits
ENL102	English Composition II	3
	Behavioral & Social Sciences	3
COM113	Radio Broadcasting	3
COM105	Survey of Mass Communication	3
	ART101 or ART 171	3

Third Semester

Item #	Title	Credits
	Natural or Physical Science	4
COM214	Media & Society	3
COM120	Introduction to Film	3
	Concentration Elective for Media Studies	3
	COM114 or COM131	3

Fourth Semester

Item #	Title	Credits
	Behavioral & Social Sciences	3
	Concentration Elective for Media Studies (200 level)	3
	Natural or Physical Science	3-4
COM215	Social Media Marketing & Communications	3
	Elective (1-3)	1-3

Note: The Associate in Arts degree does not indicate a specialized degree in a concentration. Students who complete this concentration will satisfy the requirements of [MassTransfer](#). For additional information pertaining to degree requirements, please refer to [Degree Requirements](#).

Total Credits **60-64**

Career Outlook

This program introduces the student to career-oriented fields such as radio broadcasting, radio production, and broadcast journalism. Job growth in the industry is based on strong demand from the public for media. Employment is constantly changing based on new technologies and includes film/video/television

editors, camera operators, directors and producers, film critics and script writers, as well as teachers, set designers, production assistants, and props or location managers. Students may complete their degree and transfer to a four-year institution or they may immediately enter the field.

This [occupational profile](#) is provided by O*NET.

See also: [What can I do with this major?](#)

Performing Arts Concentration

Degree Type

Associate in Arts

The Performing Arts curriculum offers instruction in theory, practice and history. These three areas of study provide the foundation needed to begin a career in the performing arts or to prepare for admission to a four-year college or university music, theater, dance or performance studies program.

Students who are matriculated and place into developmental math and/or English are required to begin the course sequence in the first semester. Please see an [advisor](#) with questions.

Transfer Information

[MassTransfer & more](#)

Requirements

First Semester

Item #	Title	Credits
	Foundation Course	3
ENL101	English Composition I	3
	Mathematics/Quantitative Reasoning	3-4
COM103	Human Communication	3
	Concentration Elective for Performing Arts	3

Second Semester

Item #	Title	Credits
ENL102	English Composition II	3
	BIO105 or Natural or Physical Science	4
	Foundation Course	3
	Concentration Elective for Performing Arts	3
	PSY101 or Behavioral & Social Science	3

Third Semester

Item #	Title	Credits
	Natural or Physical Science	3-4
	SOC106 or Behavioral & Social Science	3
	Foundation Course	3
	Concentration Elective for Performing Arts	3
	Elective	3

Fourth Semester

Item #	Title	Credits
	Concentration Elective for Performing Arts	3
	Behavioral & Social Sciences	3
	Concentration Elective for Performing Arts	1-3
	Elective	3
	Elective	3

Note: Students must select 6 credits from the courses listed in the Foundation Courses and/or Concentration Electives with * to satisfy the Humanities & Fine Arts General Education requirement.

Note: The Associate in Arts degree does not indicate a specialized degree in a concentration. Students who complete this concentration will satisfy the requirements of [MassTransfer](#). For additional information pertaining to degree requirements, please refer to [Degree Requirements](#).

Other Resources:

- [Tilden Arts Center](#)

Total Credits **60-64**

Career Outlook

Students with a strong performing arts background may pursue degrees and careers in performance, choreography, directing, technical theater, radio/TV production, dance/drama/music therapy and/or instruction, broadcast media, and more.

This [occupational profile](#) is provided by O*NET.

See also: [What can I do with this major?](#)

Visual Arts Concentration

Degree Type

Associate in Arts

The Visual Arts concentration provides necessary fundamental courses resulting in a quality

portfolio of artwork ready for transfer. This concentration is a [MassTransfer](#) eligible concentration, providing transfer opportunities within the Massachusetts Public Higher Education system. Students may also choose to transfer to other colleges or universities to continue their Bachelor of Fine Art or Bachelor of Arts studies.

Students who are matriculated and place into developmental math and/or English are required to begin the course sequence in the first semester. Please see an [advisor](#) with questions.

Portfolio:

[Preparation & Resources](#)

Transfer Information

[Regional Resources](#)

Requirements

First Semester

Item #	Title	Credits
ENL101	English Composition I	3
ART209	Printmaking Techniques	3
ART125	History of Art: Stone Age to Gothic	3
ART100	Drawing I	3
ART101	Design I	3

Second Semester

Item #	Title	Credits
ENL102	English Composition II	3
ART103	Painting I	3
ART200	Drawing II	3
ART136	Three-Dimensional Design	3
ART134	Art History: Renaissance to Modern	3
ART219	Portfolio Preparation for Artists and Graphic Designers	1

Third Semester

Item #	Title	Credits
	Natural or Physical Science	4
	Behavioral & Social Sciences	3
	Mathematics/Quantitative Reasoning	3
	Studio Art Elective	3
ART216	Life Drawing	3

Fourth Semester

Item #	Title	Credits
	Natural or Physical Science	3-4
	Behavioral & Social Sciences	3
	Behavioral & Social Sciences	3
ART229	Painting II	3
ART201	Design II	3

Note: The Associate in Arts degree does not indicate a specialized degree in a concentration. Students who complete this concentration will satisfy the requirements of [MassTransfer](#). For additional information pertaining to degree requirements, please refer to [Degree Requirements](#).

Plan your schedule.

Review which classes will run during [upcoming semesters](#).

Related Information:

- [Art Club](#)
- [Higgins Art Gallery](#)
- [Tilden Arts Center](#)

Total Credits **62-63**

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. It is recommended that students complete this concentration and transfer to complete a bachelor's degree.

This [occupational profile](#) is provided by O*NET.

See also: [What can I do with this major?](#)

Social Media & Digital Marketing

Degree Type Certificate

Students gain skills and knowledge in social media marketing and communications theory and applications. A certificate in Social Media and Digital Marketing serves as an opening to businesses needing employees trained in the use of digital media platforms for marketing and communications purposes. Students have the opportunity to earn industry-recognized credentials.

Media Communication

Cooperative Work Experience

Requirements

Courses

Item #	Title	Credits
COM103	Human Communication	3
ENL101	English Composition I	3
GIT110	Computer Applications	3
COM105	Survey of Mass Communication	3
MKT100	Marketing	3
ART171	Computer Graphics I (Adobe Photoshop, Illustrator, InDesign)	3
	ENL161 or COM208	3
GIT184	Web Authoring and Graphic Tools	3
COM215	Social Media Marketing & Communications	3
COM264	Media Communication Cooperative Work Experience	1-2
Total Credits		28-29

Career Outlook

According to the [Occupational Outlook Handbook](#), employment of media and communication occupations is projected to grow 4% from 2018 to 2028, as fast as the average for all occupations. Demand for media and communication occupations is expected to arise from the need to create, edit, translate, and disseminate information through a variety of different platforms. The median annual wage for media and communication occupations was \$57,530 in May 2018, which was higher than the median annual wage for all occupations of \$38,640. Most, but not all, entry level media and communications positions require a bachelor's degree. Most entry level positions in social media marketing and communications require prior hands-on experience.

This [occupational profile](#) is provided by O*NET.

Completion of a program is based on full time enrollment. Many of our students attend part time and may not complete within the one year timeline.

Program Outcomes

Upon successful completion of the Social Media & Digital Marketing certificate, students are able to:

- Demonstrate desirable work habits including verbal/written communication skills, technological competence, critical thinking, and problem solving.
- Demonstrate the ability to set goals, develop strategies, and analyze goal attainment in selected digital and social media platforms.
- Pursue an entry-level position within a small business to assist in online marketing and communications management.

Business

Business Administration Program

Degree Type

Associate in Science

Students in the Business Administration Program acquire a strong business and a solid general education foundation. It is designed to enhance a students' articulation to a four-year institution.

Note: This program is a [MassTransfer eligible program](#).

Students who are matriculated and place into developmental math and/or English are required to begin the course sequence in the first semester. Please see an [advisor](#) with questions.

Transfer Information

[MassTransfer & more](#)

Requirements

First Semester

Item #	Title	Credits
ENL101	English Composition I	3
COM103	Human Communication	3
GIT110	Computer Applications	3
BUS100	Introduction to Business	3
ACC100	Survey of Accounting	3

Second Semester

Item #	Title	Credits
ENL102	English Composition II	3
ACC201	Financial Accounting	3
ECO117	Principles of Macroeconomics	3
MKT100	Marketing	3
	Mathematics/Quantitative Reasoning	3-4

Third Semester

Item #	Title	Credits
ECO118	Principles of Microeconomics	3
ACC202	Managerial Accounting	3
BUS120	Business Law I	3
	Humanities & Fine Arts	3
	Natural or Physical Science	3-4

Fourth Semester

Item #	Title	Credits
BUS201	Business Finance	3
	Humanities & Fine Arts	3
	Behavioral & Social Sciences	3
	Natural or Physical Science	4
BUS214	Management	3
	Total Credits	61-63

Career Outlook

The student completing Business Administration Program 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.

This [occupational profile](#) is provided by O*NET.

See also: [What can I do with this major?](#)

Program Outcomes

Upon successful completion of the A.S. Business Administration 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
- Demonstrate the ability to work in a team
- Read, write, discuss and think critically about business topics.

Mathematics Requirement

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, and University of Massachusetts-Lowell prefer MAT175 College Algebra as a minimum requirement (more may be required when you transfer).
- University of Massachusetts-Amherst requires MAT180 Applied Calculus at CCCC for acceptance into the Isenberg School of Management.

Business Administration Program - Hospitality

Degree Type

Associate in Science

Students in the Business Administration Program - 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.

Students who are matriculated and place into developmental math and/or English are required to begin the course sequence in the first semester. Please see an [advisor](#) with questions.

Transfer Information

Transfer Agreements:
[Hospitality](#)

Requirements

First Semester

Item #	Title	Credits
ENL101	English Composition I	3
	Humanities & Fine Arts (COM103 suggested)	3
GIT110	Computer Applications	3
BUS100	Introduction to Business	3
HRM140	Introduction to Hospitality Management	3

Second Semester

Item #	Title	Credits
CUL150	Fundamentals of Professional Cooking	4
HRM111	Foodservice Sanitation	1
	Behavioral & Social Sciences	3
HRM130	Food And Beverage Management	3
	Mathematics/Quantitative Reasoning* (or) Natural or Physical Science	3-4

Third Semester

Item #	Title	Credits
	General Education Elective	3
CUL220	Advanced Culinary Arts	4
HRM215	Lodging Operations	3
HRM230	Hospitality Marketing	3
	Behavioral & Social Sciences	3

Fourth Semester

Item #	Title	Credits
BUS120	Business Law I	3
	Mathematics/Quantitative Reasoning* (or) Natural or Physical Science**	3-4
ACC100	Survey of Accounting	3
	Hospitality Management/ Culinary Elective	3
CUL210	Dining Room Operations & Service	4
Total Credits		61-63

Career Outlook

Currently, there is a strong demand for well-trained competent workers in the hospitality field. Students completing the Business Administration Program - Hospitality Management concentration are prepared for a career in the hospitality field in a supervisory or middle-management position.

This [occupational profile](#) is provided by O*NET.

See also: [What can I do with this major?](#)

Program Outcomes

Upon successful 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.

IT: Administrative Assistant – General Track

Degree Type

Associate in Science

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.

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.

Students who are matriculated and place into developmental math and/or English are required to begin the course sequence in the first semester. Please see an [advisor](#) with questions.

Transfer Information

[MassTransfer & more](#)

Requirements

First Semester

Item #	Title	Credits
ENL101	English Composition I	3
COM103	Human Communication	3
GIT110	Computer Applications	3
BUS100	Introduction to Business	3
GIT101	Typing I	3

Second Semester

Item #	Title	Credits
ACC100	Survey of Accounting	3
BUS102	Business Communication	3
	Mathematics/Quantitative Reasoning (or) Natural or Physical Science	3-4
GIT150	Database Applications	3
GIT220	Advanced Word Processing Application	3

Third Semester

Item #	Title	Credits
BUS120	Business Law I	3
BUS214	Management	3
	Mathematics/Quantitative Reasoning (or) Natural or Physical Science	3-4
PSY101	General Psychology	3
	Business Elective	3

Fourth Semester

Item #	Title	Credits
BIT202	Standard Office Procedures	3
GIT125	Microsoft® Excel for Business Applications	3
BIT261	Information Technology Cooperative Work Experience	3
	Behavioral & Social Sciences	3
	General Education Elective	3
Total Credits		60-62

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.

This [occupational profile](#) is provided by O*NET.

See also: [What can I do with this major?](#)

Program Outcomes

Upon successful 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 an information or office technology setting.
- Transfer to baccalaureate programs.

IT: Administrative Assistant – Medical Track

Degree Type

Associate in Science

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.

Medical Track 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 who are matriculated and place into developmental math and/or English are required to begin the course sequence in the first semester. Please see an [advisor](#) with questions.

Transfer Information

[MassTransfer & more](#)

Requirements

First Semester

Item #	Title	Credits
ENL101	English Composition I	3
	COM103 or ENL108	3
GIT110	Computer Applications	3
BUS100	Introduction to Business	3
GIT101	Typing I	3

Second Semester

Item #	Title	Credits
ACC100	Survey of Accounting	3
BIT103	Medical Terminology	3
BIO105	Survey: Human Anatomy & Physiology	4
PSY101	General Psychology	3
GIT220	Advanced Word Processing Application	3

Third Semester

Item #	Title	Credits
BUS102	Business Communication	3
BIT207	Medical Coding & Billing	3
GIT150	Database Applications	3
BUS120	Business Law I	3
	Mathematics/Quantitative Reasoning (or) Natural or Physical Science	3-4

Fourth Semester

Item #	Title	Credits
	BIT202 or BIT261	3
BIT203	Medical Office Procedures	3
	Information Technology Elective	3
	Behavioral & Social Sciences	3
	Business Elective	3
Total Credits		61-62

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.

This [occupational profile](#) is provided by O*NET.

See also: [What can I do with this major?](#)

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.

IT: Cybersecurity Concentration

Degree Type

Associate in Science

Students in the A. S. Cybersecurity Concentration acquire a wide range of technical skills that prepare them for penetration testing positions.

Students who are matriculated and place into developmental math and/or English are required to begin the course sequence in the first semester. Please see an [advisor](#) with questions.

How to Apply:

[Cybersecurity Admissions](#)

Transfer Information

[IT Transfer Options](#)

Requirements

First Semester

Item #	Title	Credits
ENL101	English Composition I	3
BIT187	Introduction to Networks (Cisco 1)	3
BUS100	Introduction to Business	3
BIT115	IT: Windows Desktop Operating Systems	3
BIT113	Microcomputer Hardware	3

Second Semester

Item #	Title	Credits
COM103	Human Communication	3
BIT116	IT: Linux	3
BIT240	Security+	3
	Mathematics/Quantitative Reasoning	3-4
BIT241	IT: Ethical Hacking	3

Third Semester

Item #	Title	Credits
	General Education Elective	3
	Behavioral & Social Sciences	3
BIT248	Switching, Routing & Wireless Essentials (Cisco 2)	4
BIT242	IT: Advanced Ethical Hacking I	3
BIT243	IT: Advanced Ethical Hacking II	3

Fourth Semester

Item #	Title	Credits
BIT104	Cybersecurity	3
	Mathematics/Quantitative Reasoning (or) Natural or Physical Science	3-4
BIT254	Computer Forensics	3
BIT245	IT Security: Penetration Testing	3
	Behavioral & Social Sciences	3
Total Credits		61-63

Career Outlook

Students completing the Cybersecurity Concentration are trained to work as penetration testers within network administration, engineering, management or consulting. Cybersecurity is one of the fastest career paths in the IT industry.

See also: [What can I do with this major?](#)

Program Outcomes

Upon completion of the Cybersecurity Concentration program, students are able to:

- Read, write, discuss, and think critically about topics and ideas in IT Security.
- Analyze ethical issues and apply ethical standards in the performance of responsibilities in a variety of IT Security careers.
- Work independently and with teams in an IT Security setting.
- Synthesize information from documentation and solve business problems
- Prepare for Security Penetration Testing certification exam.
- Prepare for Security+ certification exam.
- Prepare for Ethical Hacking certification exam.
- Prepare for Advanced Ethical Hacking certification exam.
- Prepare for Security Reverse Engineering certification exam.

IT: Networking Concentration

Degree Type

Associate in Science

Students learn networking theory, planning, design, installation, support, troubleshooting, and administration of wired and wireless networks through the use of lecture and hands-on labs. The Information Technology Program: Networking Concentration provides knowledge and experience for various industry-recognized certification exams.

Transfer Information

[IT Transfer Options](#)

Requirements

First Semester

Item #	Title	Credits
ENL101	English Composition I	3
BIT187	Introduction to Networks (Cisco 1)	3
BIT115	IT: Windows Desktop Operating Systems	3
BIT113	Microcomputer Hardware	3
BUS100	Introduction to Business	3

Second Semester

Item #	Title	Credits
BIT248	Switching, Routing & Wireless Essentials (Cisco 2)	4
	First-level Programming Language	3
COM103	Human Communication Behavioral & Social Sciences (PHI210 suggested)	3
	Mathematics/Quantitative Reasoning	3-4

Third Semester

Item #	Title	Credits
BIT249	Enterprise Networking, Security, and Automation (Cisco 3)	4
BIT116	IT: Linux	3
BIT104	Cybersecurity	3
	General Education Elective Behavioral & Social Sciences (PHI210 suggested)	3

Fourth Semester

Item #	Title	Credits
BIT252	Enterprise Routing Protocols	4
BUS112	Organizational Behavior	3
BIT237	Windows Server Administration	3
	Mathematics/Quantitative Reasoning* (or) Natural or Physical Science**	3-4
Total Credits		60-62

Career Outlook

Students completing the Information Technology Program: Networking Concentration are well trained to work as network administrators.

This [occupational profile](#) is provided by O*NET.

See also: [What can I do with this major?](#)

Program Outcomes

Upon completion of the Information Technology Program: Networking Concentration, students are able to:

- Read, write, discuss, and think critically about topics and ideas within networking technology.
- Prepare for multiple industry recognized networking related certifications.
- Work independently and with teams in a networking technology setting.
- Display proficiency with various networking configurations.
- Obtain entry-level positions in the networking field.

Information Technology Program

Degree Type

Associate in Science

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.

Students who are matriculated and place into developmental math and/or English are required to begin the course sequence in the first semester. Please see an [advisor](#) with questions.

Transfer Information

[IT Transfer Options](#)

Requirements

First Semester

Item #	Title	Credits
ENL101	English Composition I	3
COM103	Human Communication	3
GIT110	Computer Applications	3
BUS100	Introduction to Business	3
BIT113	Microcomputer Hardware	3

Second Semester

Item #	Title	Credits
ACC100	Survey of Accounting	3
BIT187	Introduction to Networks (Cisco 1)	3
	Mathematics/Quantitative Reasoning	3-4
	Behavioral & Social Sciences	3
BIT115	IT: Windows Desktop Operating Systems	3

Third Semester

Item #	Title	Credits
	General Education Elective	3
	Behavioral & Social Sciences	3
GIT183	Web Site Design and Scripting	3
	First-level Programming Course	3
GIT150	Database Applications	3

Fourth Semester

Item #	Title	Credits
	BUS120 or BIT104	3
	Mathematics/Quantitative Reasoning (or) Natural or Physical Science	3-4
	Information Technology Elective	3
	Advanced Information Technology Elective	3
	BIT261 or Advanced Information Technology Elective	3
	Total Credits	60-62

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.

This [occupational profile](#) is provided by O*NET.

See also: [What can I do with this major?](#)

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.

Bookkeeping Clerk

Degree Type

Certificate

Students gain skills and knowledge in computer applications, accounting theory, and tax applications. A certificate as a Bookkeeping Clerk serves as an opening to businesses needing entry-level help year-round but especially during the extended months for tax filing.

Students are encouraged to continue their studies with the [Computerized Accounting Certificate](#).

Requirements

Fall Semester

Item #	Title	Credits
GIT102	Computer Keyboarding	1
ACC100	Survey of Accounting	3
ACC210	Personal Income Taxes	3
GIT110	Computer Applications	3

Spring Semester

Item #	Title	Credits
ACC103	QuickBooks Basics	3
ACC201	Financial Accounting	3
BUS102	Business Communication	3

Program Completion

Completion of a program is based on full time enrollment. Many of our students attend part time and may not complete within the one year timeline.

Total Credits	18-19
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Career Outlook

According to the Occupational Outlook Handbook, there is a projected 4% decline in employment of bookkeeping and accounting clerks from 2018 to 2028 because of technological change. Because bookkeeping, accounting, and auditing clerks constitute a large occupation, there will be a large number of job openings from workers leaving the occupation. Thus, opportunities to enter the occupation should be plentiful, despite the slight projected decline in employment.

Students who desire to gain entry-level positions are prepared with the successful completion of this certificate. Students who are looking to pursue long-term employment in the field of accounting should continue with the Associate's degree in Business Administration, which prepares students for transfer to four-year accounting programs at the junior-level standing.

Program Outcomes

Upon successful completion of the Bookkeeping Clerk Certificate, students are able to:

- Demonstrate desirable work habits including verbal/written communication skills, technological competence, critical thinking, problem solving.
- Demonstrate ethical behavior and confidentiality with financial data.
- Assume an entry-level position within a business to help in basic accounting activities with duties that may include data input in tax preparation.

Computerized Accounting

Degree Type Certificate

Students gain skills and knowledge in computer applications, accounting theory, and tax applications. A certificate in Computerized Accounting serves as an opening to businesses needing students trained in Excel, QuickBooks, and tax software for general accounting duties.

Special Note:

Practicum or Cooperative Work Experience

Requirements

Fall Semester

Item #	Title	Credits
GIT102	Computer Keyboarding	1
ACC100	Survey of Accounting	3
ACC210	Personal Income Taxes	3
GIT110	Computer Applications	3
BUS102	Business Communication	3

Spring Semester

Item #	Title	Credits
ACC103	QuickBooks Basics	3
ACC201	Financial Accounting	3
GIT125	Microsoft® Excel for Business Applications	3
ACC115	Payroll Accounting	3
	ACC263 or ACC261	3

Program Completion

Completion of a program is based on full time enrollment. Many of our students attend part time and may not complete within the one year timeline.

Total Credits	27-28
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Career Outlook

According to the Occupational Outlook Handbook, there is a projected 4% decline in employment of bookkeeping and accounting clerks from 2018 to 2028 because of technological change. Because bookkeeping, accounting, and auditing clerks constitute a large occupation, there will be a large number of job openings from workers leaving the occupation. Thus, opportunities to enter the occupation should be plentiful, despite the slight projected decline in employment.

Students who desire to gain entry-level positions are prepared with the successful completion of this certificate. Students who are looking to pursue long-term employment in the field of accounting should continue with the Associate's degree in Business Administration, which prepares students for transfer to four-year accounting programs at the junior-level standing.

Program Outcomes

Upon successful completion of the Computerized Accounting Certificate, students are able to:

- Demonstrate desirable work habits including verbal/written communication skills, technological competence, critical thinking, and problem solving.
- Demonstrate ethical behavior and confidentiality with financial data.

- Assume an entry-level position within a business to help in basic accounting activities with duties that may include data input in tax preparation, payroll, and general accounting functions.

Culinary Arts

Degree Type

Certificate

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.

Culinary Studies

Cooperative Work Experience

Requirements

Fall Semester

Item #	Title	Credits
CUL150	Fundamentals of Professional Cooking	4
CUL180	Baking I	3
CUL210	Dining Room Operations & Service	4
HRM111	Foodservice Sanitation	1
HRM140	Introduction to Hospitality Management	3

Spring Semester

Item #	Title	Credits
COM103	Human Communication	3
CUL220	Advanced Culinary Arts	4
HRM130	Food And Beverage Management	3
	HRM262 or HRM216	3

Completion of a program is based on full time enrollment. Many of our students attend part time and may not complete within the one year timeline.

Total Credits **28**

Career Outlook

This [occupational profile](#) is provided by O*NET.

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.

Customer Service

Degree Type

Certificate

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 Business Administration degree.

Requirements

Courses

Item #	Title	Credits
BUS100	Introduction to Business	3
COM103	Human Communication	3
	COM201 or COM204	3
GIT102	Computer Keyboarding	1
GIT110	Computer Applications	3
MKT100	Marketing	3
	BUS102 or BUS112	3

Completion of a program is based on full time enrollment. Many of our students attend part time and may not complete within the one year timeline.

Total Credits **18-19**

Career Outlook

This [occupational profile](#) is provided by O*NET.

Cybersecurity

Degree Type

Certificate

Students in the Cybersecurity certificate program acquire a wide range of technical skills that prepare them for penetration testing positions.

Requirements

Courses

Item #	Title	Credits
BIT116	IT: Linux	3
BIT248	Switching, Routing & Wireless Essentials (Cisco 2)	4
BIT240	Security+	3
BIT241	IT: Ethical Hacking	3
BIT242	IT: Advanced Ethical Hacking I	3
BIT243	IT: Advanced Ethical Hacking II	3
BIT254	Computer Forensics	3
BIT245	IT Security: Penetration Testing	3

Completion of a program is based on full time enrollment. Many of our students attend part time and may not complete within the one year timeline.

Total Credits **25**

Career Outlook

Students completing the Cybersecurity certificate are trained to work as penetration testers within network administration, engineering, management or consulting. Students are encouraged to build on the certificate program eventually obtaining a degree at the College.

Program Outcomes

Upon successful completion of the Cybersecurity Certificate, students are able to:

- Read, write, discuss, and think critically about topics and ideas in IT Security.
- Analyze ethical issues and apply ethical standards in the performance of responsibilities in a variety of IT Security careers.
- Work independently and with teams in an IT Security setting.
- Synthesize information from documentation and solve business problems.
- Prepare for Security Penetration Testing certification exam.
- Prepare for Security+ certification exam.
- Prepare for Ethical Hacking certification exam.
- Prepare for Advanced Ethical Hacking certification exam.
- Prepare for Security Reverse Engineering certification exam.
- Prepare for Security Expert Penetration Testing certification exam.

IT: Administrative Assistant - General Office

Degree Type

Certificate

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.

Requirements

Fall Semester

Item #	Title	Credits
GIT101	Typing I	3
BUS102	Business Communication	3
GIT110	Computer Applications	3
BUS100	Introduction to Business	3
PSY101	General Psychology	3

Spring Semester

Item #	Title	Credits
ACC100	Survey of Accounting	3
GIT220	Advanced Word Processing Application	3
BIT202	Standard Office Procedures	3
	Business Elective	3

GIT101: If waived, must be replaced with a Business course.

Total Credits **27**

Career Outlook

This [occupational profile](#) is provided by O*NET.

Completion of a program is based on full time enrollment. Many of our students attend part time and may not complete within the one year timeline.

Program Outcomes

Upon completion of the Information Technology - Administrative Assistant-General Office Administration 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.

IT: Administrative Assistant – Medical Office

Degree Type Certificate

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.

Requirements

Fall Semester

Item #	Title	Credits
GIT101	Typing I	3
BIT103	Medical Terminology	3
BUS102	Business Communication	3
GIT110	Computer Applications	3
PSY101	General Psychology	3

Spring Semester

Item #	Title	Credits
GIT220	Advanced Word Processing Application	3
ACC100	Survey of Accounting	3
	GIT150 or BIT207	3
BIT203	Medical Office Procedures	3

GIT101: If waived, must be replaced with a Business course.

Total Credits **27**

Career Outlook

This [occupational profile](#) is provided by O*NET.

Completion of a program is based on full time enrollment. Many of our students attend part time and may not complete within the one year timeline.

Program Outcomes

Upon completion of the Information Technology – Administrative Assistant – Medical Office Administration 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.

IT: Medical Coding and Billing

Degree Type Certificate

Students gain skills and knowledge in computer applications, medical terminology, anatomy and physiology, medical office procedures, medical coding, and medical billing. A certificate in Medical Coding and Billing is a foundation to a rewarding healthcare career in many healthcare settings including medical offices, hospitals, and medical billing firms. Students are encouraged to build on the certificate and obtain an Associate's degree at the College.

Requirements

Semester 1

Item #	Title	Credits
GIT101	Typing I	3
GIT110	Computer Applications	3
BIT103	Medical Terminology	3
BUS102	Business Communication	3

Semester 2

Item #	Title	Credits
GIT150	Database Applications	3
BIO105	Survey: Human Anatomy & Physiology	4
BIT203	Medical Office Procedures	3
BIT207	Medical Coding & Billing	3

Semester 3

Item #	Title	Credits
BIT208	Advanced Medical Coding & Billing	3
BIT209	Pharmacology for Medical Coding	1

Completion of a program is based on full time enrollment. Many of our students attend part time and may not complete within the one year timeline.

Total Credits **29**

Career Outlook

The United States Labor Bureau predicts an 15% increase in the number of Medical Billing and Coding employment opportunities through the year 2024.

Program Outcomes

Upon successful completion of the Medical Coding and Billing Certificate, students are able to:

- Demonstrate desirable work habits including verbal/written communication skills, technological competence, critical thinking, problem solving, self-reliance, cooperativeness, and adaptability.
- Analyze ethical issues and apply ethical standards in the performance of responsibilities in the healthcare environment.
- Assume an entry-level position as a medical coder and/or billing specialist in various health care settings.
- Sit for the national qualifying examination for a Certified Coding Associate (CCA) through the American Health Information Management Association (AHIMA) and/or the examination for a Certified Professional Coder (CPC) through the American Association of Professional Coders (AAPC).
- Demonstrate the ability to code and bill abstract health information from reading a medical chart to assigning the correct diagnosis (ICD-9), procedure (CPT), and supply (HCPCS Level II) code in a wide variety of medical settings.

IT: Medical Receptionist

Degree Type

Certificate

Students gain skills and knowledge in computer applications, medical terminology, and medical office procedures. A Medical Receptionist Certificate is the first step to a career in healthcare.

Students are encouraged to build on the Medical Receptionist Certificate and obtain a certificate in [Medical Office Administration](#) or [Medical Coding and Billing](#) and eventually an Associate's degree at the College.

Requirements

Fall Semester

Item #	Title	Credits
GIT101	Typing I	3
GIT110	Computer Applications	3
BIT103	Medical Terminology	3

Spring Semester

Item #	Title	Credits
BUS102	Business Communication	3
BIT207	Medical Coding & Billing	3
BIT203	Medical Office Procedures	3

Completion of a program is based on full time enrollment. Many of our students attend part time and may not complete within the one year timeline.

Total Credits **18**

Career Outlook

Students are prepared for an entry-level position as a receptionist in a medical environment.

Program Outcomes

Upon successful completion of the Medical Receptionist Certificate, students are able to:

- Demonstrate desirable work habits including verbal/written communication skills, technological competence, critical thinking, problem solving, self-reliance, cooperativeness, and adaptability.
- Analyze ethical issues and apply ethical standards in the performance of responsibilities in the healthcare environment.
- Assume an entry-level position as a receptionist in a healthcare facility.

Networking

Degree Type

Certificate

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.

Requirements

Courses

Item #	Title	Credits
ENL108	Critical Reading and Thinking	3
BIT113	Microcomputer Hardware	3
BIT115	IT: Windows Desktop Operating Systems	3
BIT187	Introduction to Networks (Cisco 1)	3
BIT248	Switching, Routing & Wireless Essentials (Cisco 2)	4
BIT249	Enterprise Networking, Security, and Automation (Cisco 3)	4
BIT252	Enterprise Routing Protocols	4
BIT237	Windows Server Administration	3

Completion of a program is based on full time enrollment. Many of our students attend part time and may not complete within the one year timeline

Total Credits **24-27**

Career Outlook

Students completing the Information Technology Networking certificate are well trained to work as network technicians and network administrators. Students are encouraged to build on the certificate program to earn a degree at the College.

Program Outcomes

Upon successful completion of the Information Technology Networking 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.

- Work with teams in an information or office technology setting.
- Synthesize information from documentation and users to solve business problems and provide customer service.
- Obtain entry-level positions in the networking field.
- Continue in the Information Technology associate degree program.

PC Service Technician

Degree Type

Certificate

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.

Requirements

Courses

Item #	Title	Credits
GIT102	Computer Keyboarding	1
COM103	Human Communication	3
GIT110	Computer Applications	3
BIT113	Microcomputer Hardware	3
BIT115	IT: Windows Desktop Operating Systems	3
BIT187	Introduction to Networks (Cisco 1)	3

Completion of a program is based on full time enrollment. Many of our students attend part time and may not complete within the one year timeline.

Total Credits **15-16**

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.

Web Design

Degree Type

Certificate

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.

Requirements

Item #	Title	Credits
GIT102	Computer Keyboarding	1
GIT180	Introduction to the Internet	3
GIT110	Computer Applications	3
BUS102	Business Communication	3
CSC110	Computer Programming I: Java	3
GIT183	Web Site Design and Scripting	3
ART171	Computer Graphics I (Adobe Photoshop, Illustrator, InDesign)	3
GIT184	Web Authoring and Graphic Tools	3
	CSC130 or BIT221 or BIT286	3-4
BIT284	Javascript & JQuery Web Scripting	3

Completion of a program is based on full time enrollment. Many of our students attend part time and may not complete within the one year timeline.

Total Credits **27-29**

Career Outlook

This [occupational profile](#) is provided by O*NET.

Engineering Sciences & Applied Technology

Contact Engineering Sciences & Applied Technology

Department of Engineering Sciences & Applied Technology

Phone 774.330.4580

E-mail fbsharah@capecod.edu

Aviation Maintenance Technology Program

Degree Type

Associate in Applied Science

Do you have a passion for mechanics and aviation?

Interested in an in-demand career?

Find your calling in aviation with the Aviation Maintenance Technology Program at Cape Cod Community College. The unique, 24-month airplane maintenance training program at 4Cs meets a critical need for highly skilled technicians in airframe and power plant repair and certification—including full FAA Certification.

Aviation maintenance technicians (AMT's) are the professionals who fix and maintain aircraft. AMT's repair and service nearly every part and system of an aircraft, including landing gear, aircraft structure and engine systems. AMT's are also called A&P mechanics because of their airframe and power plant certifications. AMT's are in high demand and make a higher return on their education investment than pilots, doctors and lawyers.

AMT's have great career options, and can work in most countries around the world.

The Associates of Applied Science – Aviation Maintenance Technology program fosters student responsibility, accountability, and management skills. The degree requires a total of 70/71 credits for completion. The Airframe and Powerplant program is 48 credits. Each student will require an additional 22/23 credits of general education. The additional credits can be earned at any time the student wants to pursue this pathway.

Attendance at an AMT Information Session is **required** for all applicants to the program. For program costs visit [Tuition and Fees](#).

Learn more about the New AMT Pathways Program for High School Students

High school students can take AMT classes and become certified *while they are still in high school!*

You can enroll in this one-of-a-kind online, predominantly remote program using our state-of-the-art “hyflex” model, which allows you the freedom to learn under the watchful eye of an FAA Certificated Instructor with weekly check-ins, reviews and learning opportunities with an additional lab component that can be scheduled monthly or through a 2-week summer program.

NOW taking enrollments for the Fall 2022 Semester

[Click here to learn more about when the Pathways program runs and how to get signed up.](#)

Learn more about AMT

[AMT Overview](#)

How to Apply:

[AMT Admissions](#)

Requirements

General Education

Item #	Title	Credits
ENL101	English Composition I	3
	MAT150 or MAT175 or MAT180 or MAT240	3-4
ENL102	English Composition II	3
PHY151	Physics I	4
	Behavioral & Social Sciences	3
	Behavioral & Social Sciences	3
GIT110	Computer Applications	3

Program Requirements

Item #	Title	Credits
AMT110	Aviation Maintenance Technology (AMT): General Module 1	6
AMT120	Aviation Maintenance Technology (AMT): General Module 2	6
AMT210	Aviation Maintenance Technology: Airframe Module 1	8
AMT220	Aviation Maintenance Technology: Airframe Module 2	10
AMT230	Aviation Maintenance Technology: Powerplant Module 1	10
AMT240	Aviation Maintenance Technology: Powerplant Module 2	8

[AMT110](#), [AMT120](#), [AMT210](#), [AMT220](#), [AMT230](#), [AMT240](#): Pending academic approval.

The AMT General Modules run Monday–Thursday; Airframe and Powerplant Modules run Monday–Friday.

More Information:

- This program is located at our Plymouth Airport facility.
- Housing is available at Bridgewater State University.

Total Credits

70-71

Career Outlook

Labor market data show a strong need for aviation industry education targeting occupations like aviation maintenance technicians, avionics, engineering & operating technicians, inspectors, aircraft structures, rigging & systems assemblers, aviation managers, and directors of maintenance. The degree program prepares students for careers as aviation technicians in maintenance and repair. The AAS Aviation Maintenance Technology degree will allow growth for the technician and a pathway to management roles in the industry.

This [occupational profile](#) is provided by O*NET.

Program Outcomes

Upon successful completion of the Aviation Maintenance Technology program, students are able to:

- Demonstrate knowledge of aviation maintenance and increase opportunities in an aviation career field.
- Excel in management, responsibility and leadership roles.
- Provide organizational influence and direction in aviation operations. The Aviation modules are divided into three main categories of instruction identified by the Federal Aviation Administration.
 1. AMT General Modules consist of 404 lab and lecture hours
 2. AMT Airframe Modules consist of 750 lab and lecture hours
 3. AMT Powerplant Modules consist of 750 lab and lecture hours

In order to complete 1900 hours of lab and lecture, the AMT curriculum is offered eight hours a day for five days a week 12 months a year.

Students must pass:

- 404 hours of AMT110, 120 and 210 to sit for the FAA General Maintenance Certification Written Exam.
- 404 hours of AMT110, 120, 210 and 750 Hours of AMT110, 120, 210 and 220 to sit for the FAA Certification Written Airframe, then FAA General and Airframe Oral & Practical Exams.
- 404 hours of AMT120, 120, 210 and 750 Hours of AMT220, 230 and 240 to sit for the FAA Certification Written Powerplant Exam, then General and Powerplant Oral & Practical Exams.

Housing

Housing is available at Bridgewater State University

4Cs Aviation students housed at BSU have access to:

- All common area kitchen, lounge and recreation spaces within the assigned residence hall.
- All programs and activities offered by the residence hall staff within the assigned residence hall.
- Parking in resident student parking lots.
- Services provided by Counseling and Health Services.
- All BSU facilities, including the library and fitness facilities.

[Bridgewater State University](#)

131 Summer Street
Bridgewater, MA 02325

Only 30 minutes to:

[Plymouth Airport](#)

246 South Meadow Road
Plymouth, MA 02360

Housing costs cover:

- Room
- Meal Plan (optional)
- Parking
- ResNet (Cable, Internet, WEPA printing, Xfinity on Campus, ResNet Cinema movies, HBO Go and telephone)
- CONNECT Card

For more information on current costs and availability contact Roberto Flores, Admissions Counselor:

Roberto Flores, Admissions Counselor

Phone [774.994.0197](tel:774.994.0197)
E-mail rflores@capecod.edu

Student Activities/Clubs

4C's Aviation Club

Chapter President:
TBD

Faculty Mentor:
Gregory Gibbons

Alpha Eta Rho

[Alpha Eta Rho - Home](#)

Alpha Eta Rho International Aviation Fraternity is a professional collegiate fraternity founded to bring together those students having a common interest in the field of commercial aviation. Since 1929, the organization has fostered a unique bond among fellow aviators and aviation enthusiasts, and has aspired to uphold our longstanding motto of "Collegiate Aviation Leaders of Today... Aviation Industry Leaders of Tomorrow."

Alpha Eta Rho, the Greek letters which stand for "AIR," came into being to fulfill a definite need of the time. On the campus of the University of Southern California in the spring of 1929, enrollment in aviation courses was surprisingly high.

Faculty members as well as students were voicing the need for an extracurricular activity for promoting and organizing the unified interest in aviation.

Chapter President:
Cameron Lucier

Faculty Mentor:
Judd Goldberg

Women in Aviation International

[Homepage](#) | [Women in Aviation International \(wai.org\)](#)

Women in Aviation International (WAI) is a nonprofit organization dedicated to the encouragement and advancement of women in all aviation career fields and interests. Our diverse membership includes astronauts, corporate, airline and private pilots, maintenance technicians, engineers, air traffic controllers, aviation business owners, educators, journalists, flight attendants, high school and university students, air show performers, airport managers, and many others.

At WAI, we strive to encourage, empower, and educate all those whose interests, lives, and work involve aviation and aerospace without regard to race, ethnicity, gender identity, age, sexual orientation, physical or mental abilities, or point of view. We know with certainty that our shared passion for aviation transcends any differences among us.

Local Chapter President:
Karlyn Leth
karlynleth@gmail.com

Faculty Mentor:
Nathan Griffith

Technical Standards

In order to successfully complete the Aviation Maintenance Technology Program (AMT) and work in the field of aviation maintenance, certain physical capabilities are required throughout the program and in the industry. All AMT students must be able to satisfy the following standards without a reasonable accommodation.

Communication

- Communicate verbally in understandable English including the ability to hear and speak normally without electronic assistance.
- Must always wear hearing protection in areas of high noise levels.
- Contact the front desk and/or Instructor when tardy or late for class.
- Participate in classroom discussions and team projects during class including shop/lab time.

Vision

- See and accurately read all written assignments, texts, manuals, and other required materials.
- Have vision abilities including close vision, distance vision, and ability to adjust focus.
- Must always wear eye protection.

Physical

- Ability to lift 30–50 pounds unassisted in a safe manner.
- Be able to sit, walk, and stand for extended periods of time.
- Be able to kneel, crouch, stoop, crawl, reach, twist, lying down, handle, finger, and feel.
- Ability to raise arms over one's head.
- Use scaffolds, ladders, and aviation specific equipment.
- Use of hand, power tools and testing equipment.
- Have no disease or disability that does not allow the contact or use of required tools, chemicals, or equipment needed to perform essential duties and tasks.
- Work often outdoors or inside hangar in inclement weather conditions.

Behavioral/Mental Performance

- Function safely, effectively and calmly.
- Prioritize and manage tasks simultaneously.
- Exhibit social skills necessary to interact with classmates, faculty and staff, visitors, and industry.
- Maintain personal hygiene consistent with program dress code guidelines.

- Display ethical attitudes and actions consistent with professional behavior of the Aircraft Mechanic's Creed and FAA regulations.
- Display the social skills to behave with politeness, tact and sensitivity to others in all settings.
- Exhibit respect for cultural and ethnic differences of clients, peers and individuals in health care and classroom settings.
- Remain free from alcohol and/or chemical impairment in classroom and clinical settings at all times.

Computer Science Concentration

Degree Type

Associate in Arts

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.

Students who are matriculated and place into developmental math and/or English are required to begin the course sequence in the first semester. Please see an [advisor](#) with questions.

Transfer Information

[Information Technology](#)

Requirements

First Semester

Item #	Title	Credits
ENL101	English Composition I	3
MAT240	Calculus I	4
	CSC110 or CSC120 or CSC1053-4	
	PHY151 or PHY211	4
	Behavioral & Social Sciences	3

Second Semester

Item #	Title	Credits
ENL102	English Composition II	3
MAT250	Calculus II	4
CSC130	Computer Programming II: Java	4
	PHY152 or PHY212	4

Third Semester

Item #	Title	Credits
CSC230	Data Structures	4
	CSC125 or ENR110	3-4
	Humanities & Fine Arts	3
	Humanities & Fine Arts	3
	Behavioral & Social Sciences	3

Fourth Semester

Item #	Title	Credits
CSC240	Introduction to Computer Systems	4
CSC250	Computer Organizational & Architecture	4
	MAT245 or MAT220	3-4
	STEM elective	3-4
	STEM elective	3-4

*CSC240 is recommended for students who plan to transfer to UMass-Dartmouth or UMass-Amherst.

Note: The Associate in Arts degree does not indicate a specialized degree in a concentration. Students who complete this concentration will satisfy the requirements of [MassTransfer](#). For additional information pertaining to degree requirements, please refer to [Degree Requirements](#)

Total Credits **65-70**

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 system 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.

This [occupational profile](#) is provided by O*NET.

See also: [What can I do with this major?](#)

Engineering Technology & Advanced Manufacturing

Degree Type

Associate in Science

The Engineering Technology and Advanced Manufacturing Associate in Science program of

study is designed to give students the core skills and knowledge needed to be successful in acquiring a Bachelor of Science degree in Engineering. The program is structured to be completed within two years and with careful advisor assisted selection of the engineering, mathematics, and science electives a student can be prepared to transfer to almost any college or university offering a baccalaureate in engineering or manufacturing program. Furthermore, the student should be able to complete remaining Bachelor of Science requirements within 2 to 3 years.

Students take four math courses, Calculus I, Calculus II, Calculus III, and Differential Equations, as they will be applying high levels of math throughout their engineering program education. Additionally, they learn the advanced physics and computer-aided design concepts that underlie modern engineering/manufacturing processes and procedures. They hone their critical thinking skills and become versed in the processes needed to systematically solve problems and to develop an idea into a finished product. Direct hands-on experience in the application and use of state-of-the-art engineering and manufacturing equipment is gained through laboratory sessions that are associated with the majority of the program specific courses.

Pursuing the Engineering Technology and Advanced Manufacturing Associate in Science program at Cape Cod Community College provides students access to a full suite of prerequisite and remedial courses when course pre-requirements need to be met, additionally a smaller class size with more individualized attention will generally be found, and there is a significantly lower price point than that at most four year institutions.

Note: COL101 The College Experience is recommended for students who are exploring careers in the Engineering Pathway. This degree has advanced mathematics requirements: Calculus I, Calculus II, Calculus III, and Differential Equations.

Transfer Information

Transfer Agreements:
[Engineering Transfer Options](#)

Requirements

First Semester

Item #	Title	Credits
ENL101	English Composition I	3
	Humanities & Fine Arts	3
CHM151	General Chemistry I	4
ENR106	3D Design & Analysis I	3
MAT240	Calculus I	4

Second Semester

Item #	Title	Credits
COM103	Human Communication	3
	Behavioral & Social Sciences	3
	ENR107 or ENL102	3
MAT250	Calculus II	4
ENR103	Introduction to Robotics	4

Third Semester

Item #	Title	Credits
	Behavioral & Social Sciences	3
PHY211	University Physics I	4
MAT260	Calculus III	4
	Engineering Technology & Advanced Manufacturing Elective	3-4
	Engineering Technology & Advanced Manufacturing Elective	3-4

Fourth Semester

Item #	Title	Credits
PHY212	University Physics II	4
MAT270	Differential Equations	3
	Engineering Technology & Advanced Manufacturing Elective	3-4
	Engineering Technology & Advanced Manufacturing Elective	3-4
	Total Credits	64-68

Career Outlook

The Engineering and Advanced Manufacturing Associate in Science degree provides the skills for an entry level general engineering/manufacturing technician or draftsman. Graduates work as automation specialists, manufacturing technicians, design technicians, CAD designers, engineering aides, field service technicians, technical representatives, and maintenance technicians. It will open employment doors to many jobs that require multidisciplinary competencies. Employment of engineering technicians is projected to grow 5 percent from 2012 to 2022.

This [occupational profile](#) is provided by O*NET.

See also: [What can I do with this major?](#)

Program Outcomes

Upon completion of the Engineering Technology and Advanced Manufacturing program, students are able to:

- Work as part of a team to plan, design, and fabricate an electro-mechanical device.
- Describe and follow the engineering analysis and design process.
- Organize, schedule, and complete an engineering design project that may require one to collect and interpret technical data as well as exhibit proficiency in software programming.
- Reverse engineer the design of an existing product or service.
- Test and evaluate an engineering design against a set of requirements, design and conduct experiments, interpret results, and apply results to improve processes.
- Use a variety of instruments and software for taking measurements and or solving problems.
- Be effective communicators in written, oral and graphical communications, and in documentation of work.
- Conduct research from a variety of sources and have an ability to identify and incorporate appropriate technical literature.
- Apply mathematical methods for problem-solving and analyze working models of basic engineering systems to solve open-end problems.
- Demonstrate the skills and behaviors of engineering professionals, including lifelong learning, professional development, ethics, teamwork, quality improvement, and a respect for diversity; and a commitment to apply them to their work.

Airframe Certificate

Degree Type Certificate

The Aviation Maintenance Technology certificate develops students towards an Airframe & Powerplant license. The Airframe certificate requires a total of 39 credits for completion. Three general education courses are required for a certificate and can be taken at any time. The entire program develops students in a one year process as an Aviation Maintenance Technician.

Attendance at an [AMT Information Session](#) is **required** for all applicants to the program.

- For more information: [AMT Program Overview](#)
- Location: our Plymouth Airport facility
- Housing: available at Bridgewater State University
- US Department of Labor Statistics website: [Aircraft Mechanics and Service Technicians](#)

Admissions Information:

[AMT Admissions](#)

Requirements

First Semester

Item #	Title	Credits
AMT110	Aviation Maintenance Technology (AMT): General Module 1	6
AMT120	Aviation Maintenance Technology (AMT): General Module 2	6

Second Semester

Item #	Title	Credits
AMT210	Aviation Maintenance Technology: Airframe Module 1	8
AMT220	Aviation Maintenance Technology: Airframe Module 2	10

[AMT110](#), [AMT120](#), [AMT210](#), [AMT220](#): Pending academic approval.

The AMT General Modules run Monday–Thursday; Airframe Modules run Monday–Friday.

Total Credits	30
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Career Outlook

Labor market data shows a strong need for aviation industry education targeting occupations like aviation maintenance technicians, avionics, engineering & operating technicians, inspectors, aircraft structures, rigging & systems assemblers, aviation managers, and directors of maintenance. The 12 month program will increase the number of aviation technicians and address the regional workforce gaps.

This [occupational profile](#) is provided by O*NET.

Program Outcomes

Upon successful completion of the Aviation Maintenance Technology concentration, students are able to:

- Receive Airframe Certificate.
- Sit for FAA license exam.
- Demonstrate the knowledge of aviation maintenance and increase opportunities to enter an aviation career field.

Technical Standards

In order to successfully complete the Aviation Maintenance Technology Program (AMT) and work in the field of aviation maintenance, certain physical capabilities are required throughout the program and in the industry. All AMT students must be able to satisfy the following standards without a reasonable accommodation.

Communication

- Communicate verbally in understandable English including the ability to hear and speak normally without electronic assistance.
- Must always wear hearing protection in areas of high noise levels.
- Contact the front desk and/or Instructor when tardy or late for class.
- Participate in classroom discussions and team projects during class including shop/lab time.

Vision

- See and accurately read all written assignments, texts, manuals, and other required materials.
- Have vision abilities including close vision, distance vision, and ability to adjust focus.
- Must always wear eye protection.

Physical

- Ability to lift 30–50 pounds unassisted in a safe manner.
- Be able to sit, walk, and stand for extended periods of time.
- Be able to kneel, crouch, stoop, crawl, reach, twist, lying down, handle, finger, and feel.
- Ability to raise arms over one’s head.
- Use scaffolds, ladders, and aviation specific equipment.
- Use of hand, power tools and testing equipment.
- Have no disease or disability that does not allow the contact or use of required tools, chemicals, or equipment needed to perform essential duties and tasks.
- Work often outdoors or inside hangar in inclement weather conditions.

Behavioral/Mental Performance

- Function safely, effectively and calmly.
- Prioritize and manage tasks simultaneously.

- Exhibit social skills necessary to interact with classmates, faculty and staff, visitors, and industry.
- Maintain personal hygiene consistent with program dress code guidelines.
- Display ethical attitudes and actions consistent with professional behavior of the Aircraft Mechanic's Creed and FAA regulations.
- Display the social skills to behave with politeness, tact and sensitivity to others in all settings.
- Exhibit respect for cultural and ethnic differences of clients, peers and individuals in health care and classroom settings.
- Remain free from alcohol and/or chemical impairment in classroom and clinical settings at all times.

AMT Location

[Plymouth Airport](#)

246 South Meadow Road
Plymouth, MA 02360
Gate 6, Building S3-H1 & H2

Housing

Housing is available at Bridgewater State University
4Cs Aviation students housed at BSU have access to:

- All common area kitchen, lounge and recreation spaces within the assigned residence hall.
- All programs and activities offered by the residence hall staff within the assigned residence hall.
- Parking in resident student parking lots.
- Services provided by Counseling and Health Services.
- All BSU facilities, including the library and fitness facilities.

[Bridgewater State University](#)
131 Summer Street
Bridgewater, MA 02325

Only 30 minutes to:

[Plymouth Airport](#)
246 South Meadow Road
Plymouth, MA 02360

Housing costs cover:

- Room
- Meal Plan (optional)
- Parking

- ResNet (Cable, Internet, WEPA printing, Xfinity on Campus, ResNet Cinema movies, HBO Go and telephone)
- CONNECT Card

For more information on current costs and availability contact Roberto Flores, Admissions Counselor:

Roberto Flores, Admissions Counselor
Phone 774.994.0197
E-mail rflores@capecod.edu

Architectural Computer Drafting

Degree Type

Certificate

The Architectural Computer Drafting Certificate addresses the construction industry's need for personnel skilled in architectural drafting and design. Students gain proficiency in CAD drafting as well as the architectural process and required architectural documentation. Students start by developing efficient drafting techniques and mastering the 2D drawing capabilities of AutoCAD. These skills are then leveraged to develop expertise in preparing a complete set of working drawings for supporting a construction project.

Requirements

Courses

Item #	Title	Credits
CON130	Computer Aided Drafting I	3
CON135	Computer Aided Drafting II	3
CON200	Architectural Drafting I	3
CON201	Architectural Drafting II	3
Total Credits		12

Career Outlook

This [occupational profile](#) is provided by O*NET.

Program Outcomes

Upon completion of the **Architectural Computer Drafting Certificate** students are able to:

- Demonstrate mastery in the 2D drafting and construction documentation capabilities of AutoCAD software.
- Create and coordinate a full set of construction drawings and floor plans (single and multi-level).
- Explain the process of creating a set of architectural plans and evaluate architectural plans for completeness.
- Demonstrate the creation of a 2D drawing from reality capture data.

- Produce interior and exterior elevations, develop sections, window, door & finish schedules.
- Validate design and verify that design intent is actually making it onto the documentation.

Engineering Design and Digital Manufacturing

Degree Type Certificate

Students acquire foundational as well as everyday practical skills in three dimensional solid modeling, mechanical part digital fabrication, and robotic automation to aid the modern engineering/manufacturing enterprise. Principles associated with mechanical product design, visualization, documentation, configuration control, and release management are acquired through hands-on use of three dimensional solid modeling tools and software. In addition, students master skills in the design to manufacture process through extensive use of additive and subtractive manufacturing equipment including fused filament fabrication, laser polymerization stereolithography (SLA), and computerized numerical control (CNC) machines.

The certificate in Engineering Design and Digital Manufacturing prepares students for immediate employment in today's increasingly high tech manufacturing industry. The course requirements include a mixture of engineering, math, and communication courses. This mixture is designed to give the student technical and verbal skills sought by today's employer. Similarly, many of the courses specify team driven assignments and projects, another skill sought by the employers aligned with this certificate. Students earning this certificate will emerge with confidence, knowledge, and experiential skills needed to be successful as mechanical designers.

Requirements

Courses

Item #	Title	Credits
ENR106	3D Design & Analysis I	3
ENR107	3D Design & Analysis II	3
ENR103	Introduction to Robotics	4
COM103	Human Communication	3
MAT175	College Algebra	4

Completion of a program is based on full time enrollment. Many of our students attend part time and may not complete within the one year timeline.

Total Credits

17

Career Outlook

The Engineering Design and Digital Manufacturing Certificate prepares students for a career path in Mechanical Computer Aided Design and Computer Aided Manufacturing (CAD/CAM). This certificate program provides students with the skills to become a professional CAD Designer, Solid Modeler, Design Drafter, Designer, Drafter, Drafting Technician, Mechanical Designer, Mechanical Drafter, Industrial Designer, Automation Technician, Product Designer, or Project Designer.

Employment is projected to grow 7% from 2016 to 2026, about as fast as the average for all occupations. Increased construction activity is projected to drive demand, but this is expected to be tempered as engineers and architects increasingly perform some tasks previously done by non-bachelor degreed drafters.

This [occupational profile for Mechanical Drafters](#) is provided by O*NET.

This [occupational profile for Mechanical Technicians](#) is provided by O*NET.

Program Outcomes

Upon successful completion of the Engineering Design and Digital Manufacturing Certificate, students are able to:

- Develop a concept from an idea through to a finished product all the while integrating design standards, methods, and materials into the project. Fully analyze and document the design using 3D Computer Aided Design software that optimizes the full life cycle sustainability of the product.
- Conduct a demonstration on how additive manufacturing techniques such as 3D printing can be used to rapidly prototype a design to facilitate evaluation and incorporate design changes to improve the product design.
- Justify when to use 3D CAD software as a tool in solving a wide variety of engineering design problems.
- Demonstrate mastery of orthographic projection interpretation through creating standard views and isometric views of a product design.
- Differentiate between the roles and responsibilities of the most common design engineering disciplines.

- Exhibit an understanding of professional ethics and the application to real-life product design situations.
- Exhibit skills necessary for an entry-level position in mechanical CAD design.

Powerplant Certificate

Degree Type

Certificate

The Aviation Maintenance Technology certificate develops students towards an Airframe & Powerplant license. The Powerplant certificate requires a total of 39 credits for completion. Three general education courses are required for a certificate and can be taken at any time. The entire program develops students in a one year process as an Aviation Maintenance Technician.

Attendance at an [AMT Information Session](#) is **required** for all applicants to the program.

- For more information: [AMT Program Overview](#)
- This program is located at our Plymouth Airport facility.
- Housing is available at Bridgewater State University.
- US Department of Labor Statistics website: [Aircraft Mechanics and Service Technicians](#)

Admissions Information:

[AMT Admissions](#)

Requirements

First Semester

Item #	Title	Credits
AMT110	Aviation Maintenance Technology (AMT): General Module 1	6
AMT120	Aviation Maintenance Technology (AMT): General Module 2	6

Second Semester

Item #	Title	Credits
AMT230	Aviation Maintenance Technology: Powerplant Module 1	10
AMT240	Aviation Maintenance Technology: Powerplant Module 2	8

[AMT110](#), [AMT120](#), [AMT230](#), [AMT240](#): Pending academic approval.

The AMT General Modules run Monday–Thursday; Airframe Modules run Monday–Friday.

Total Credits

30

Career Outlook

Labor market data shows a strong need for aviation industry education targeting occupations like aviation maintenance technicians, inspectors, engineering & operating technicians, rigging & system assemblers, powerplant technicians, aviation managers, and directors of maintenance. The 12 month program will increase the number of aviation technicians and address the regional workforce gaps.

This [occupational profile](#) is provided by O*NET.

Program Outcomes

Upon successful completion of the Aviation Maintenance Technology certificate, students are able to:

- Receive Powerplant Certificate.
- Sit for FAA license exam.
- Demonstrate the knowledge of aviation maintenance and increase opportunities to enter an aviation career field.

Technical Standards

In order to successfully complete the Aviation Maintenance Technology Program (AMT) and work in the field of aviation maintenance, certain physical capabilities are required throughout the program and in the industry. All AMT students must be able to satisfy the following standards without a reasonable accommodation.

Communication

- Communicate verbally in understandable English including the ability to hear and speak normally without electronic assistance.
- Must always wear hearing protection in areas of high noise levels.
- Contact the front desk and/or Instructor when tardy or late for class.
- Participate in classroom discussions and team projects during class including shop/lab time.

Vision

- See and accurately read all written assignments, texts, manuals, and other required materials.
- Have vision abilities including close vision, distance vision, and ability to adjust focus.

- Must always wear eye protection.

Physical

- Ability to lift 30–50 pounds unassisted in a safe manner.
- Be able to sit, walk, and stand for extended periods of time.
- Be able to kneel, crouch, stoop, crawl, reach, twist, lying down, handle, finger, and feel.
- Ability to raise arms over one’s head.
- Use scaffolds, ladders, and aviation specific equipment.
- Use of hand, power tools and testing equipment.
- Have no disease or disability that does not allow the contact or use of required tools, chemicals, or equipment needed to perform essential duties and tasks.
- Work often outdoors or inside hangar in inclement weather conditions.

Behavioral/Mental Performance

- Function safely, effectively and calmly.
- Prioritize and manage tasks simultaneously.
- Exhibit social skills necessary to interact with classmates, faculty and staff, visitors, and industry.
- Maintain personal hygiene consistent with program dress code guidelines.
- Display ethical attitudes and actions consistent with professional behavior of the Aircraft Mechanic’s Creed and FAA regulations.
- Display the social skills to behave with politeness, tact and sensitivity to others in all settings.
- Exhibit respect for cultural and ethnic differences of clients, peers and individuals in health care and classroom settings.
- Remain free from alcohol and/or chemical impairment in classroom and clinical settings at all times.

AMT Location

Plymouth Airport

246 South Meadow Road
Plymouth, MA 02360
Gate 6, Building S3-H1 & H2

Housing

Housing is available at Bridgewater State University
4Cs Aviation students housed at BSU have access to:

- All common area kitchen, lounge and recreation spaces within the assigned residence hall.
- All programs and activities offered by the residence hall staff within the assigned residence hall.
- Parking in resident student parking lots.
- Services provided by Counseling and Health Services.
- All BSU facilities, including the library and fitness facilities.

Bridgewater State University

131 Summer Street
Bridgewater, MA 02325

Only 30 minutes to:

Plymouth Airport

246 South Meadow Road
Plymouth, MA 02360

Housing costs cover:

- Room
- Meal Plan (optional)
- Parking
- ResNet (Cable, Internet, WEPA printing, Xfinity on Campus, ResNet Cinema movies, HBO Go and telephone)
- CONNECT Card

For more information on current costs and availability contact Roberto Flores, Admissions Counselor:

Roberto Flores, Admissions Counselor

Phone 774.994.0197

E-mail rflores@capecod.edu

Programming for Computer Science

Degree Type

Certificate

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.

Requirements

Courses

Item #	Title	Credits
CSC120	Computer Programming I: C++	4
CSC110	Computer Programming I: Java	3
CSC130	Computer Programming II: Java	4
CSC210	System Software & Assembly Language Programming	4
CSC230	Data Structures	4
	General Education Elective	3

Completion of a program is based on full time enrollment. Many of our students attend part time and may not complete within the one year timeline.

Total Credits **22**

Career Outlook

This [occupational profile](#) is provided by O*NET.

Robotics and Manufacturing Automation

Degree Type

Certificate

This certificate is for students who want to work directly with robotic and electro-mechanical manufacturing, logistics, and maintenance equipment used by today's modern manufacturing and warehousing companies. Technologists will use their knowledge of electrical circuitry and mechanical engineering to operate and maintain robotic and advanced manufacturing equipment. This may include working closely beside engineers and machinists to design, test, and improve automated mechanical equipment and its components as well as troubleshoot malfunctions, repair faulty devices, and perform preventative measures.

Upon certificate completion, students will have hands-on practical experience in the use and application of electrical instruments and mechanical measuring devices and will be able to read and use data sheets, system specifications, schematic diagrams, timing diagrams, and wiring diagrams. Emphasis is placed on safe work habits and procedures, preventive maintenance, localization and correction of malfunctions, and troubleshooting techniques.

Requirements

Item #	Title	Credits
ENR103	Introduction to Robotics	4
ENR105	Circuit Theory & Analysis	4
ENR110	Engineering and Scientific Computing	3
MAT175	College Algebra	4
COM103	Human Communication	3

Note: This certificate has advanced mathematics requirements.

Completion of a program is based on full time enrollment. Many of our students attend part time and may not complete within the one year timeline.

Total Credits **18**

Career Outlook

Common job titles for certificate graduates include Electro-Mechanical Technician, Electrical-Electronics Technician, Robotics Technician, and Manufacturing Automation Technician. Technicians with this certificate are expected to experience a 2 to 4 percent increase in employment from 2014-2024, according to the Bureau of Labor Statistics. This lack of growth will be due largely to increased efficiency in the design and production of robotics machinery; however, it may be offset by a demand to replace technologists that leave the occupation due to retirement and career advancement. Technologists who continue their education to earn an associate's degree or similar postsecondary training will benefit from greater employment opportunities. The median annual wage for 2016 was \$26.74 hourly, \$55,610 annual.

This [occupational profile](#) is provided by O*NET.

Program Outcomes

Upon completion of the Robotics and Manufacturing Automation Certificate students are able to:

- Install, program, or repair programmable/robotic controllers, end-of-arm tools, and conveyors. Develop robotic path motions to maximize efficiency, safety, and quality.
- Test and troubleshoot robotic and electro-mechanical systems using knowledge of microprocessors, programmable controllers, electronics, circuit analysis, mechanics, sensor or feedback systems.
- Read blueprints, schematics, diagrams, or technical orders to determine methods and sequences of assembly.
- Perform preventive or corrective maintenance on robotic and automation systems such as the replacement of

defective circuit boards, sensors, controllers, encoders, and servomotors and maintain service records of equipment or automated systems.

- Inspect parts and equipment for surface and functionality defects. Verify part dimensions or clearances to ensure conformance to specifications, using precision measuring instruments.
- Install electrical or electronic parts and hardware in housings or assemblies, using soldering equipment and hand tools.
- Exhibit skills necessary for an entry level position in robotics upon completion.

General Studies & Liberal Arts

General Studies Concentration

Degree Type

Associate in Arts

The Associate in Arts General Studies concentration is designed for students exploring many interests in a wide variety of disciplines. It is also appropriate for students whose career choice or academic goals cannot be met in any other academic programs.

Students who are matriculated and place into developmental math and/or English are required to begin the course sequence in the first semester. Please see an [advisor](#) with questions.

Transfer Information

MassTransfer & more

Requirements

First Semester

Item #	Title	Credits
ENL101	English Composition I	3
	Mathematics/Quantitative Reasoning	3-4
	Humanities & Fine Arts	3
	Behavioral & Social Sciences	3
	Elective	3

Second Semester

Item #	Title	Credits
ENL102	English Composition II	3
	Natural or Physical Science	3-4
	Humanities & Fine Arts	3
	Behavioral & Social Sciences	3
	Elective (3 or 4)	3-4

Third Semester

Item #	Title	Credits
	Natural or Physical Science	4
	Behavioral & Social Sciences	3
	Elective	3
	Elective	3
	Elective	3

Fourth Semester

Item #	Title	Credits
	Humanities & Fine Arts	3
	Elective	3
	Elective	3
	Elective	3
	Elective (if needed)	2-3

Note: The Associate in Arts degree does not indicate a specialized degree in a concentration. Students who complete this concentration will satisfy the requirements of [MassTransfer](#). For additional information pertaining to degree requirements, please refer to [Degree Requirements](#).

Total Credits

60-63

Career Outlook

The General Studies concentration allows student to plan and continue their education toward careers in business, information technology, justice, media, education social services, government, and healthcare.

Students are advised to work with the transfer institution to guarantee maximum transferability of credits.

This [occupational profile](#) is provided by O*NET.

See also: [What can I do with this major?](#)

Liberal Arts Concentration

Degree Type

Associate in Arts

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 institution.

Students who are matriculated and place into developmental math and/or English are required to begin the course sequence in the first semester. Please see an [advisor](#) with questions.

Transfer Information

[MassTransfer](#)

Requirements

First Semester

Item #	Title	Credits
ENL101	English Composition I	3
	Mathematics/Quantitative Reasoning	3-4
	Humanities & Fine Arts	3
	Behavioral & Social Sciences	3
	Concentration Elective	3

Second Semester

Item #	Title	Credits
ENL102	English Composition II	3
	Natural or Physical Science	3-4
	Humanities & Fine Arts	3
	Behavioral & Social Sciences	3
	Concentration Elective for Liberal Arts	3

Third Semester

Item #	Title	Credits
	Natural or Physical Science	4
	Behavioral & Social Sciences	3
	Concentration Elective for Liberal Arts	3
	Concentration Elective for Liberal Arts	3
	Concentration Elective for Liberal Arts	3

Fourth Semester

Item #	Title	Credits
	Humanities & Fine Arts	3
	Concentration Elective for Liberal Arts	3
	Concentration Elective for Liberal Arts	3
	Concentration Elective for Liberal Arts	3
	Elective (if needed)	2-3

Note: The Associate in Arts degree does not indicate a specialized degree in a concentration. Students who complete this concentration will satisfy the requirements of [MassTransfer](#). For additional information pertaining to degree requirements, please refer to [Degree Requirements](#).

Total Credits

60-63

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.

This [occupational profile](#) is provided by O*NET.

See also: [What can I do with this major?](#)

Health Sciences

Health Sciences Concentration

Degree Type

Associate in Arts

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.

Students who are matriculated and place into developmental math and/or English are required to begin the course sequence in the first semester. Please see an [advisor](#) with questions.

Transfer Information

[MassTransfer & more](#)

Requirements

First Semester

Item #	Title	Credits
ENL101	English Composition I	3
	Mathematics/Quantitative Reasoning (MAT150 suggested)	3
	COM103 or Humanities & Fine Arts	3
PSY101	General Psychology	3
	CHM109 or CHM151 or BIO109 or BIO151	4

Second Semester

Item #	Title	Credits
ENL102	English Composition II	3
BIO251	Human Anatomy & Physiology I	4
PSY233	Developmental Psychology: The Life Span	3
	Humanities & Fine Arts	3
	Concentration Elective for Health Sciences (NUR101 suggested)	1-3

Third Semester

Item #	Title	Credits
BIO252	Human Anatomy & Physiology II	4
	Humanities & Fine Arts	3
	Behavioral & Social Sciences	3
	Concentration Elective for Health Sciences	3-4
	Elective (1-3)	1-3

Fourth Semester

Item #	Title	Credits
	Concentration Elective for Health Sciences	3-4
	Concentration Elective for Health Sciences	3-4
	Elective	3
	Elective	3
	Elective (if needed)	1-3

Note: The Associate in Arts degree does not indicate a specialized degree in a concentration. Students who complete this concentration will satisfy the requirements of [MassTransfer](#). For additional information pertaining to degree requirements, please refer to [Degree Requirements](#).

Total Credits **60**

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.

This [occupational profile](#) is provided by O*NET.

See also: [What can I do with this major?](#)

Program Outcomes

With advisor consultation and upon successful completion of the selected courses, 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 program 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.

Dental Hygiene Program

Degree Type

Associate in Science

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.

Students who are matriculated and placed into developmental math and/or English are required to begin the course sequence in the first semester. Please see an [advisor](#) with questions.

Dental Hygiene applicants are accepted only for the Fall Semester.

Vaccination against COVID-19 is required for the Dental Hygiene program. Read the full statement: [Vaccination Requirements for Dental Hygiene](#)

More Program Information: [Dental Hygiene Program Overview](#)

Admission Information: [Dental Hygiene Admissions](#)

Related Information:

[Dental Hygiene Clinic](#)

Requirements

Pre-admission Requirement

Item #	Title	Credits
	CHM151 or CHM109	4

First Semester

Item #	Title	Credits
ENL101	English Composition I	3
BIO251	Human Anatomy & Physiology I	4
DEN101	Oral Tissues I	2
DEN103	Principles of Oral Radiology	3
DEN121	Dental Hygiene I	2
DEN126	Clinical Dental Hygiene I	3

Second Semester

Item #	Title	Credits
BIO252	Human Anatomy & Physiology II	4
DEN102	Oral Tissues II	2
DEN123	Dental Hygiene II	2
DEN128	Clinical Dental Hygiene II	4
DEN205	Oral Pathology	3
DEN200	Pharmacology for Dental Hygiene	3

Summer Session

Item #	Title	Credits
HEA201	Nutrition	3
BIO281	Microbiology	4

Third Semester

Item #	Title	Credits
COM103	Human Communication	3
DEN209	Dental Materials	3
DEN211	Periodontics	2
DEN230	Dental Hygiene III	2
DEN236	Clinical Dental Hygiene III	4
DEN237	Pain Management in Dental Hygiene Practice	2

Fourth Semester

Item #	Title	Credits
PSY101	General Psychology	3
SOC106	Principles of Sociology	3
DEN105	Community Dental Health	2
DEN232	Dental Hygiene IV	2
DEN238	Clinical Dental Hygiene IV	4
	General Education Elective	3
Total Credits		75

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. See also: [What can I do with this major?](#)

According to the Bureau of Labor Statistics:

Employment of Dental Hygienists is projected to grow 6% percent from 2019 to 2029, faster than the average for all occupations and an average annual salary of \$74,820.

The job outlook is fantastic both nationally and locally here in Massachusetts.

The demand for dental services will increase as the population ages. As the large baby-boom population ages and people keep more of their original teeth than did previous generations, the need to maintain and treat teeth will continue to drive demand for dental care.

Studies linking oral health and general health, and efforts to expand access to oral hygiene services, will continue to drive the demand for preventive dental services. As a result, the demand for all dental services, including those performed by hygienists, will increase. In addition, demand for dental hygienists is expected to grow as state laws increasingly allow dental hygienists to work at the top of their training, and they effectively become more productive.

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 active learning, critical thinking, problem solving, research 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, dental hygiene diagnosis, planning, implementation, evaluation, documentation) for all patients and community-based oral health programs.
- Demonstrate competency in the use of technology in the dental hygiene process of care.
- Continually perform self-assessment to maintain professional standards and encourage lifelong learning and a commitment to interdisciplinary collaboration.
- Demonstrate 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.

Special Requirements for the Dental Hygiene Program

For information on special admissions requirements for the Dental Hygiene Program visit www.capecod.edu/dentalrequirements.

Program Goals

The Cape Cod Community College Dental Hygiene Program provides an educational pathway for students to join a rewarding health profession that offers a wide range of career opportunities. At Cape Cod Community College, the students' education is the first priority, and the Dental Hygiene Program is committed to helping the students in the development of clinical skills, critical thinking skills, and in the acquisition of a strong educational foundation in dental hygiene. Students are encouraged upon completion of the program to further their education and expertise, and to involve themselves in their professional association.

Program Goals

1. Educate students to provide quality dental hygiene care for patients from diverse

populations and to recognize the cultural differences in the dental hygiene process of care on a global scale.

2. Prepare students to become competent, critically thinking health care professionals who promote health and the prevention of disease.
3. Prepare students to maintain high standards of ethical conduct.
4. Provide a learning environment for students that will instill the pursuit of lifelong learning.
5. Provide a curriculum that includes scientific advancement, innovations, and the use of technology in the practice of dental hygiene.
6. Educate students about the value of active membership(s) in local, state, national and international professional organizations.

Completion Rates

Program Completion and Professional Examination Pass Rates

For 2016 to 2018:

- Program completion rates ranged from 90.9% to 100%.
- ADEX pass rates for first time test takers ranged from 80% to 90%.
- NBDHE pass rates for first time test takers were 85%.

Technical Standards

Essential Functions Required to Complete the Dental Hygiene Program

1. Effectively communicate in verbal, nonverbal and written format in English with patients, families and all members of the dental/health care team.
2. Possess computer skills for student success.
3. Assess, draw conclusions, plan, implement, evaluate and document the dental hygiene process of care.
 1. Read and comprehend relevant information in patient records, textbooks and professional journals.
 2. Measure, calculate, reason, analyze, synthesize.
 3. Exercise proper judgment.
 4. Complete tasks within required time limits.
 5. Retain information and apply knowledge to new / individual patient cases.
4. Possess hearing and vision sufficient, with or without corrective devices, to perform effectively in a dental facility and provide safe and accurate patient care.

5. Visually differentiate subtle changes of gray on radiographs and changes in color, size, shape and texture for tissues.
6. Possess the physical stamina and ability to perform CPR, lift and carry up to 50 pounds, manipulate dental equipment, sit and stand for extended periods of time.
 1. Possess the ability to actively participate in all demonstrations, laboratory exercises, and clinical experiences in the dental hygiene program.
 2. Possess the ability to act as patient during a variety of clinical procedures.
7. Demonstrate fine motor skills/dexterity in combination with eye/hand coordination.
 1. Possess the tactile sensitivity to feel for fine differences in soft and hard structures.
8. Possess the ability to demonstrate the following academic and professional behaviors:
 1. Manage heavy academic schedules.
 2. Perform in fast-paced clinical situations.
 3. Display flexibility.
 4. Demonstrate integrity and empathy for others.
 5. Develop mature, sensitive and effective relationships with patients, colleagues and other members of the dental / health care team.
 6. Accept responsibility and accountability for one's own actions.
 7. Comply with the American Dental Hygienists' Association Code of Ethics.
9. Be able to wear protective equipment such as scrubs / scrub gowns, gloves, face mask, face shield and eyewear / loupes during all aspects of patient care.

Accreditation

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 Commission on Dental Competency Assessments/ADEX Examination and the National Board Dental Hygiene Examination.

The program in Dental Hygiene is accredited by the Commission on Dental Accreditation and has been granted the accreditation status of "approved without reporting requirements." The Commission is a specialized accrediting body recognized by the United States Department of Education. The Commission on Dental Accreditation can be contacted at 312-440-4653 or at 211 East Chicago Avenue, Chicago, IL 60611-2678. The Commission's web address is www.ada.org/en/coda/accreditation

Funeral Service

Degree Type

Associate in Science

Our accredited Funeral Service Program prepares you for a rewarding career in a field that is both respected and essential. Our program includes bereavement support, embalming, restorative arts, final disposition, celebrant practices, legal & ethical responsibilities, and more. We offer hands-on learning using lab simulations as well as practicums in clinical settings.

At 4Cs, you can earn an Associate Degree in Funeral Service, as well as Certificates in Bereavement Support, Embalming, Funeral Administrator, and Funeral Celebrant. Our Funeral Service facility is located at Bridgewater State University.

How to Apply:

[Funeral Service Admissions](#)

Requirements

First Semester

Item #	Title	Credits
ENL101	English Composition I	3
COM103	Human Communication	3
	MAT150 or MAT165	3
BIO105	Survey: Human Anatomy & Physiology	4
FSR128	Social Foundations of Funeral Service	3

Second Semester

Item #	Title	Credits
ACC100	Survey of Accounting	3
PSY101	General Psychology	3
BUS100	Introduction to Business	3
FSR131	Embalming I	3
FSR132	Embalming Clinical	1
FSR129	Funeral Directing I	3

Third Semester

Item #	Title	Credits
FSR134	Embalming Chemistry	3
FSR232	Embalming II	3
FSR140	Funeral Directing II	3
BUS120	Business Law I	3
FSR150	Sanitary Sciences	4

Four Semester

Item #	Title	Credits
FSR209	Funeral Service Merchandizing & Management	3
PSY210	Psychology of Grief	3
FSR294	Regulatory Compliance for Funeral Service	3
FSR239	Restorative Art	4
FSR298	Board Certification and Competencies Skills	2

Students must earn a minimum grade of "C" in each Board tested course to progress in the Funeral Service program: [BIO105](#), [FSR128](#), [ACC100](#), [BUS100](#), [FSR131](#), [FSR132](#), [FSR129](#), [FSR134](#), [FSR232](#), [FSR140](#), [BUS120](#), [FSR150](#), [FRS209](#), [PSY210](#), [FSR294](#), [FSR239](#), [FSR298](#)

Total Credits	63
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Nursing Program

Degree Type

Associate in Science

The Associate in Science degree in Nursing is accredited by the Accreditation Commission for Education in Nursing and has full approval from 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 Director 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-RN). Cape Cod Community College (CCCC) Nursing Program graduates become licensed as Registered Nurses upon successful completion of the NCLEX-RN.

IMPORTANT NOTE:

COVID Vaccine Statement for Health Profession Students

Although currently the Commonwealth of Massachusetts doesn't mandate the COVID Vaccine, students in a health profession program may be required to have the vaccine and show proof if required by a clinical/fieldwork partner.

While the college will make a reasonable effort to place you in a clinical facility, clinical placement cannot be guaranteed in an un-immunized status. If the college cannot secure a clinical placement due to your un-immunized status then you will be unable to complete the program's clinical requirement. Thus, you will be unable to progress and will fail out of the program.

Per the Massachusetts Community Colleges (Sept 20,2021), all 4Cs students must be fully vaccinated to be on campus for COVID-19 starting in January 2022.

Per 4Cs Nursing Program all nursing students must be vaccinated for COVID-19 including Booster #1 by September 1, 2022

Program Outcomes

- 70% of ASN students admitted into the program will complete the nursing program within 150% of the program length.
- 80% of all first-time NCLEX-RN test takers will pass during the same 12-month period.
- 90% of graduates who respond to Nursing Graduate Survey will be employed as a registered nurse within 12 months after graduation.

For 2018 to 2020:

Outcomes	2018	2019	2020
Program Completion Rates within 150% of program length	84.8%	76.6%	75.9%
NCLEX-RN Pass Rates	93.26%	83.87%	96.47%
First time test takers			
Job Placement Rates			
based on student responses to Nursing Graduate Survey	92%	96%	96%

Nursing Admissions

[Special Admissions Requirements](#)

Program Handbook

[Nursing Program Student Handbook](#)

Requirements

Pre-admission Requirements

Item #	Title	Credits
BIO251	Human Anatomy & Physiology I	4
CHM109	Chemistry for the Health Sciences	4
ENL101	English Composition I	3
PSY101	General Psychology	3
	ENL102 or COM103	3

First Semester

Item #	Title	Credits
BIO252	Human Anatomy & Physiology II	4
NUR101	Dosage Calculations	1
NUR107	Fundamentals of Nursing	8

Second Semester

Item #	Title	Credits
PSY233	Developmental Psychology: The Life Span	3
NUR108	Nursing across the Lifespan	8

Third Semester

Item #	Title	Credits
BIO281	Microbiology	4
HEA200	Pharmacology	3
NUR201	Physical and Mental Health I	10

Fourth Semester

Item #	Title	Credits
NUR202	Physical and Mental Health II	8
NUR203	Foundations of the Profession	3

BIO251, CHM109: These two courses meet the revised General Education requirements (effective Fall 2010)

ENL101, PSY101, ENL102, BIO252, PSY233, BIO281: Courses that can be completed in advance of applying to the Nursing Program.

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.

See: Admissions Requirements: Associate Degree in Nursing

More Information:

- [Center for Nursing and Allied Health](#): An experiential learning environment
- [Nursing Program Overview](#): An introduction to the Nursing Department.
- [RN-BS at 4Cs](#): UMass Boston Partnership

Total Credits

69

Career Outlook

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

This [occupational profile](#) is provided by O*NET.

See also: [What can I do with this major?](#)

Program Outcomes

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

1. **Synthesize** knowledge of biopsychosocial sciences to provide care and promote health for patients/clients with chronic health problems.
2. **Integrate** the components of the nursing process to assist patient/client to move toward optimal health.
3. **Integrate** knowledge of the patient/client relationship to family, community and external environment while providing culturally competent nursing care.
4. **Develop** a therapeutic nurse patient/client relationship considering advocacy and ethical principles.
5. **Synthesize** concepts of stress adaptation to implement the plan of care for patient/client with chronic common health problems.
6. **Demonstrate** accountability and ethical principles while functioning as a member of the multidisciplinary health team.

7. **Devise** a plan to implement evidence-based practice in a variety of clinical settings.

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

Submit a copy of the card (front and back) and current certification. The following two courses are the only approved courses: "American Heart Association, Healthcare Provider" or "American Red Cross, CPR/AED for the Professional Rescuer and Health Care Provider."

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. Drug screening may be repeated throughout the program as required by clinical settings.

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. CORI/SORI checks may be required throughout the program.

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 found in the [Nursing Program Student Handbook](#).

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 may follow the Cape Cod Community College grievance policy.

Nursing Program Technical Standards

In order to be eligible for and successfully complete the Nursing Program, certain physical and behavioral standards are required as part of the program and clinical/lab experience. These technical standards have been developed using the U.S. Department of Labor's skills and abilities for those working in a medical setting. Some cooperative work experience opportunities may have additional requirements beyond the technical standards listed here and requirements may vary by agency. Students must satisfy the program's technical standards and the individual agency requirements before a clinical assignment is approved.

These technical standards are established in accordance with the Section 504 of the federal Rehabilitation Act of 1973 and the American with Disabilities Act. All students must be able to satisfy these standards with or without a reasonable accommodation. These include:

Communication (Verbal and Non-Verbal)

- Communicate effectively either independently or with corrective devices.
- Communicate in English through reading, orally and in writing to instructors, professors, clinical staff, clients, families and all members of the health care team.
- Understand oral directions/requests from health care workers, clients, voice pages and telephone messages stated in a normal tone.

Auditory Ability

- Hear all alarms on technical and supportive equipment set at a normal volume.
- Listen and respond to distress sounds from clients.
- Accurately detect audibly blood pressure readings with a stethoscope.

Visual Ability

- See and accurately read all written medical information pertaining to the client.
- See and accurately read all readings and functions of technical equipment pertaining to client care.
- See and accurately read all calibrated containers for accurate measurement of body fluids and specimens.

Physical Strength (Gross Motor Control)

- Ability to lift 25 pounds unassisted in a safe manner, thereby protecting yourself, the client, and those in close proximity to you.
- Bend and/or lift to assist client and manipulate client equipment.
- Lift to safely transfer or position all clients in various situations.
- Move, push or pull equipment, beds, stretchers, wheelchairs, etc.
- Ability to raise arms over one's head in order to assist clients and manipulate equipment.
- Walk/ stand for extended periods and distances over an 8-hour period.

Manual Dexterity (Fine Motor Movement)

- Accurately manipulate dials, gauges, buttons and switches to set, monitor and care for client care related equipment.
- Safely and effectively perform dressing procedures without contaminating the wound.
- Successfully don and remove protective apparel (including sterile gloves) to maintain standard precautions.

Behavioral/Mental Performance

- Function safely, effectively and calmly under stressful situations.
- Prioritize and manage tasks simultaneously.
- Exhibit social skills necessary to interact therapeutically with clients, families, staff and faculty.
- Maintain personal hygiene consistent with department dress code guidelines.
- Display ethical attitudes and actions consistent with professional behavior.
- Display the social skills to behave with politeness, tact and sensitivity to others in all settings.
- Exhibit respect for cultural and ethnic differences of clients, peers and individuals.
- Remain free from alcohol and/or chemical impairment in classroom and clinical settings at all times.

Nursing Evening Option - Overview

The course sequencing is based on the term of enrollment. Nursing classes and clinical experiences are scheduled on selected evenings and weekends. 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 BIO281 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 BIO281 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.

Diagnostic Technician Certificate

Degree Type Certificate

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.

The pivotal course in the Diagnostic Technician Certificate is Fundamentals of Phlebotomy (DTC104). Due to the **very limited number of seats** (12) in the Phlebotomy courses, students are advised to complete the other three courses before taking Phlebotomy. In order to apply for the Fundamentals of Phlebotomy course, you must attend an information session.

NOTE: To matriculate into this program, you must attend a Diagnostic Technician or Health Science [information session](#).

IMPORTANT NOTE: COVID Vaccine Statement for Health Profession Students

Although currently the Commonwealth of Massachusetts doesn't mandate the COVID Vaccine, students in a health profession program may be required to have the vaccine and show proof if required by a clinical/fieldwork partner.

While the college will make a reasonable effort to place you in a clinical facility, clinical placement cannot be guaranteed in an un-immunized status. If the college cannot secure a clinical placement due to your un-immunized status then you will be unable to complete the program's clinical requirement. Thus, you will be unable to progress and will fail out of the program. In order to avoid this situation, the College strongly recommends that all Health Profession students obtain the COVID Vaccine no later than August 11th, 2021.

How to Apply:

[Diagnostic Technician Admissions](#)

Requirements

Courses

Item #	Title	Credits
BIT103	Medical Terminology	3
COM103	Human Communication	3
DTC102	EKG Technician	2
DTC104	Fundamentals of Phlebotomy	6
DTC204	Phlebotomy Practicum	2

[BIT103](#): It is recommended that students take BIT103 Medical Terminology prior to admission into the Diagnostic Technician Certificate program or they may take it concurrently with [DTC104](#) once they are admitted.

Total Credits	16
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Career Outlook

This [occupational profile](#) is provided by O*NET.

Completion of a program is based on full time enrollment. Many of our students attend part time and may not complete within the one year timeline.

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.

Technical Standards

In order to be eligible for and successfully complete the Diagnostic Technician Program, certain physical and behavioral standards are required as part of the program and clinical/lab experience. These technical standards have been developed using the U.S. Department of Labor's skills and abilities for those working in a medical setting. Some cooperative work experience opportunities may have additional requirements beyond the technical standards listed here and requirements may vary by agency. Students must satisfy the program's technical standards and the individual agency requirements before a clinical assignment is approved.

These technical standards are established in accordance with the Section 504 of the federal Rehabilitation Act of 1973 and the American with Disabilities Act. All students must be able to satisfy these standards with or without a reasonable accommodation. These include:

Communication (Verbal and Non-Verbal)

- Communicate effectively either independently or with corrective devices.
- Communicate in English through reading, orally and in writing to instructors, professors, clinical staff, clients, families and all members of the health care team.
- Understand oral directions/requests from health care workers, clients, voice pages and telephone messages stated in a normal tone.

Auditory Ability

- Hear all alarms on technical and supportive equipment set at a normal volume.
- Listen and respond to distress sounds from clients.

Visual Ability

- See and accurately read all written medical information pertaining to the client.
- See and accurately read all readings and functions of technical equipment pertaining to client care.
- See and accurately read all calibrated containers for accurate measurement of body fluids and specimens, medical administration devices (syringes, pumps etc.)
- See and accurately perform a client assessment pertaining to specimen collection.

Physical Strength (Gross Motor Control)

- Ability to lift 25 pounds unassisted in a safe manner, thereby protecting yourself, the client, and those in close proximity to you.
- Bend and/or lift to assist client and manipulate client equipment.
- Lift to safely transfer or position all clients in various situations.
- Move, push or pull equipment, beds, stretchers, wheelchairs, etc.
- Ability to raise arms over one's head in order to assist clients and manipulate equipment.
- Stand independently.
- Walk/stand for extended periods and distances over an 8-hour period.

Manual Dexterity (Fine Motor Movement)

- Accurately manipulate equipment.
- Accurately palpate the vein when drawing blood

- Accurately handle sterile equipment without contaminating syringes, needles, solutions, etc.
- Successfully don and remove protective apparel (including sterile gloves) to maintain standard precautions.

Behavioral/Mental Performance

- Function safely, effectively and calmly under stressful situations.
- Prioritize and manage tasks simultaneously.
- Exhibit social skills necessary to interact therapeutically with clients, families, staff and faculty.
- Maintain personal hygiene consistent with department dress code guidelines.
- Display ethical attitudes and actions consistent with professional behavior.
- Display the social skills to behave with politeness, tact and sensitivity to others in all settings.
- Exhibit respect for cultural and ethnic differences of clients, peers and individuals.
- Remain free from alcohol and/or chemical impairment in classroom and clinical settings at all times.

Medical Assisting Certificate

Degree Type Certificate

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.

Why Our Program?

Only graduates from accredited programs like ours can take the Certified Medical Assistant (CMA) exam. Because we are accredited by the CAAHEP (Commission on Accreditation of Allied Health Education Programs) and MAERB (Medical Assisting Education Review Board), this means that we must meet stringent educational requirements that are reviewed by an outside agency annually. Employers prefer our graduates because of their quality college level education and certification(s).

The Medical Assisting Certificate program is accredited by the Commission of Accreditation of Allied Health Education Programs (CAAHEP) upon the recommendation of the Medical Assisting Education Review Board (MAERB). Complete information can be found in the college catalog: [Accreditation](#)

Admission into the program requires that the applicant attend a Medical Assisting [virtual information session](#).

IMPORTANT NOTE: COVID Vaccine Statement for Health Profession Students

Although currently the Commonwealth of Massachusetts doesn't mandate the COVID Vaccine, students in a health profession program may be required to have the vaccine and show proof if required by a clinical/fieldwork partner.

While the college will make a reasonable effort to place you in a clinical facility, clinical placement cannot be guaranteed in an un-immunized status. If the college cannot secure a clinical placement due to your un-immunized status then you will be unable to complete the program's clinical requirement. Thus, you will be unable to progress and will fail out of the program. In order to avoid this situation, the College strongly recommends that all Health Profession students obtain the COVID Vaccine no later than August 11th, 2021.

How to Apply:

[Medical Assisting Admissions](#)

Requirements

First Semester (Spring)

Item #	Title	Credits
BIT103	Medical Terminology	3
BIO105	Survey: Human Anatomy & Physiology	4
PSY101	General Psychology	3

Second Semester (Fall)

Item #	Title	Credits
GIT110	Computer Applications	3
HEA134	Essential Skills for the Health1 Professional	1
MAC101	Fundamentals of Medical Assisting	3

Third Semester (Spring)

Item #	Title	Credits
MAC205	The Administrative Medical Assistant	3
MAC204	Medical Assisting Clinical Procedures and Clinical Practicum	7
HEA202	Essentials of Pharmacology for Allied Health Professionals	2

*For those planning on pursuing health care professions requiring a degree, (BIO107 or BIO251) and (BIO108 or BIO252) are recommended.

Note: To remain in this program a student must maintain a 75% average in each required course, a satisfactory clinical evaluation, and adhere to the attendance policy.

Medical Assisting are required to maintain current CPR certification at the level of Healthcare provider or professional rescuer in MAC101 and MAC204.

Total Credits **29**

Career Outlook

This [occupational profile](#) is provided by O*NET.

Completion of a program is based on full time enrollment. Many of our students attend part time and may not complete within the one year timeline.

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.

Technical Standards

In order to be eligible for and successfully complete the Medical Assistant Certificate, certain physical and behavioral standards are required as part of the program and clinical/lab experience. These technical standards have been developed using the U.S. Department of Labor's skills and abilities for those working in a medical setting. Some cooperative work experience opportunities may have additional requirements beyond the technical standards listed here and requirements may vary by agency. Students must satisfy the program's technical standards and the individual agency requirements before a clinical assignment is approved.

These technical standards are established in accordance with the Section 504 of the federal Rehabilitation Act of 1973 and the American with

Disabilities Act. All students must be able to satisfy these standards with or without a reasonable accommodation. These include:

Communication (Verbal and Non-Verbal)

- Communicate effectively either independently or with corrective devices.
- Communicate in English through reading, orally and in writing to instructors, professors, clinical staff, clients, families and all members of the health care team.
- Understand oral directions/requests from health care workers, clients, voice pages and telephone messages stated in a normal tone.

Auditory Ability

- Hear all alarms on technical and supportive equipment set at a normal volume.
- Listen and respond to distress sounds from clients.
- Accurately detect audibly blood pressure readings with a stethoscope.

Visual Ability

- See and accurately read all written medical information pertaining to the client.
- See and accurately read all readings and functions of technical equipment pertaining to client care.
- See and accurately read all calibrated containers for accurate measurement of body fluids and specimens.

Physical Strength (Gross Motor Control)

- Ability to lift 25 pounds unassisted in a safe manner, thereby protecting yourself, the client, and those in close proximity to you.
- Bend and/or lift to assist client with activities of daily living and manipulate client equipment.
- Lift to safely transfer or position all clients in various situations.
- Move, push or pull equipment, beds, stretchers, wheelchairs, etc.
- Ability to raise arms over one's head in order to assist clients and manipulate equipment.
- Walk/stand for extended periods and distances over an 8-hour period.

Manual Dexterity (Fine Motor Movement)

- Accurately manipulate dials, gauges, buttons and switches to set, monitor and care for client care related equipment.
- Safely and effectively perform dressing procedures without contaminating the wound.
- Successfully don and remove protective apparel (including sterile gloves) to maintain standard precautions.

Behavioral/Mental Performance

- Function safely, effectively and calmly under stressful situations.
- Prioritize and manage tasks simultaneously.
- Exhibit social skills necessary to interact therapeutically with clients, families, staff and faculty.
- Maintain personal hygiene consistent with department dress code guidelines.
- Display ethical attitudes and actions consistent with professional behavior.
- Display the social skills to behave with politeness, tact and sensitivity to others in all settings.
- Exhibit respect for cultural and ethnic differences of clients, peers and individuals.
- Remain free from alcohol and/or chemical impairment in classroom and clinical settings at all times.

See also: [Immunization Requirements](#)

Graduation Requirements

- Students must successfully complete each required course and must maintain a 75% average in each course.
- Students must take a nationally recognized certification exam at their own expense prior to graduation from this program.

Outcomes for Students

- Certification Exam pass rate for our graduates 2018–2019 cohort: 92%

Contact Medical Assisting

Gwen Dyson, Program Coordinator

Phone 774.330.4514

E-mail gdyson@capecod.edu

Barbara Vinall, Program Office Assistant

Phone 774.330.4623

E-mail bvinall@capecod.edu

Medical Interpreter Certificate

Degree Type Certificate

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.

Admission into the program requires that the applicant attend a Medical Interpreter [information session](#).

How to Apply:

[Medical Interpreter Admissions](#)

Requirements

Courses

Item #	Title	Credits
BIT103	Medical Terminology	3
BIO105	Survey: Human Anatomy & Physiology	4
MIN101	Medical Interpreter I	3
MIN102	Medical Interpreter II	3
MIN200	Medical Interpreter Practicum	3

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](#). CORI/SORI checks may be required throughout the program.

Completion of a program is based on full time enrollment. Many of our students attend part time and may not complete within the one year timeline.

Total Credits	16
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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.

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

Admission Requirements

Admission into the Medical Interpreter Certificate program requires that the applicant attend an

information session. 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.

Paramedic Certificate

Degree Type Certificate

The Paramedic certificate program at Cape Cod Community College is designed to assist the student to prepare for the State Certificate Exam for Paramedic. The program offers current certified Emergency Medical Technicians and Advanced Emergency Medical Technicians an opportunity to prepare to advance to the level of Paramedic. Paramedics possess a comprehensive and multifaceted pre-hospital skill set that is essential in patient care. Students in the Paramedic certificate program will learn advanced skills including patient assessment, intravenous therapy, medication therapy, cardiology and more.

Cape Cod Community College Paramedic Program: No graduates during the 2020 reporting year.

IMPORTANT NOTE: COVID Vaccine Statement for Health Profession Students

Although currently the Commonwealth of Massachusetts doesn't mandate the COVID Vaccine, students in a health profession program may be required to have the vaccine and show proof if required by a clinical/fieldwork partner.

While the college will make a reasonable effort to place you in a clinical facility, clinical placement cannot be guaranteed in an un-immunized status. If the college cannot secure a clinical placement due to your un-immunized status then you will be unable to complete the program's clinical requirement. Thus, you will be unable to progress and will fail out of the program. In order to avoid this situation, the College strongly recommends that all Health Profession students obtain the COVID Vaccine no later than August 11th, 2021.

Admissions Information:
[Paramedic Admissions Requirements](#)

Requirements

Courses

Item #	Title	Credits
EMS203	Advanced Pre-Hospital Training Program: Paramedic I	10
EMS204	Advanced Pre-Hospital Training Program: Paramedic II	10
EMS211	Paramedic Clinical Experience	5
EMS221	Paramedic Capstone Field Internship	4

Class schedules may extend beyond the traditional semester.

Special tuition/fees are charged.

Students are recommended to attend the Paramedic [information session](#) prior to the start of the program.

Total Credits **29**

Career Outlook

This [occupational profile](#) is provided by O*NET.

Completion of a program is based on full time enrollment. Many of our students attend part time and may not complete within the one year timeline.

The U.S. Bureau of Labor Statistics predicts that employment for Emergency Medical Technicians and Paramedics will grow much faster than the national average for all occupations through 2026. Job growth is expected to be at about 15%. (The balance Careers)

Locally, in the coming years, the baby-boomer generation will continue to retire thus opening up a wide-range of job opportunities in the EMS field as paramedics.

Program Outcomes

Upon successful completion of the Paramedic Certificate program, 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 the assessment and management of emergency patients.
- Demonstrate, with competency, required NREMT testing skills without any failures in critical components.

- 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.
- Participate in both the NREMT psychomotor and cognitive certification exams.

Upon successful completion of the NREMT psychomotor and cognitive exams, the student will be eligible for his/her Paramedic certification.

Goals and Objectives

The goal of Cape Cod Community College's Paramedic Certificate program is to educate and prepare competent, paramedic ALS providers to serve in both the public and private medical sectors.

- Provide paramedic training in accordance with National EMS Education Standards and Massachusetts OEMS State guidelines. "To prepare competent entry-level Emergency Medical Technician-Paramedics in the cognitive (knowledge), psychomotor (skills), and affective (behavior) learning domains with or without exit points at the Advanced Emergency Medical Technician and/or Emergency Medical Technician and/or Emergency Medical Responder levels."
- To provide high quality training at the paramedic level that meets and exceeds the minimum state and national requirements.
- To teach students beyond the "teaching curriculum"; to teach the importance of customer service, EMS and scene management; bring a balanced mix of real world scenarios and classroom/lab training to our course.

Cape Cod Community College understands it takes years as a provider to become comfortable with patient treatment. Our goal is to help all students understand these processes. In addition, CCCC stresses a focus on knowledge, skills, abilities, professionalism and how to adapt to the dynamic environment of paramedicine. Scene dynamics, environment and patient conditions are continuously changing. Teaching adaptation, open-mindedness and competencies in these areas is necessary for a successful paramedic.

Technical Standards

In order to be eligible for, and successfully complete, the Paramedic Program, certain physical and behavioral standards are required as part of the program and clinical/ lab experience. These technical standards have been developed using the U.S. Department of Labor's skills and abilities for those working in a medical setting. Some clinical work experience opportunities may have additional requirements beyond the technical standards listed here and requirements may vary by agency. Students must satisfy these requirements to participate in the clinical internship and field/capstone internship.

These technical standards are established in accordance with Section 504 of the federal Rehabilitation Act of 1973 and the American with Disabilities Act. All students must be able to satisfy these standards with or without reasonable accommodation. These include:

Communication (Verbal and Non-Verbal)

1. Communicate effectively either independently or with corrective devices.
2. Communicate in English through reading, orally and in writing to instructors, professors, clinical staff, clients, families and all members of the health care team.
3. Understand oral directions/requests from paramedic preceptors, health care workers, patients, voice pages and telephone messages stated in a normal tone.

Auditory Ability

1. Hear all alarms on technical and supportive equipment set at a normal volume.
2. Listen and respond to distress sounds from patients.
3. Accurately detect audible blood pressure readings with a stethoscope.

Visual Ability

1. See and accurately read all written medical information pertaining to the patient.
2. See and accurately read all readings and functions of technical equipment pertaining to patient care.
3. See and accurately read all medications for administration or any equipment be used.

Physical Strength (Gross Motor Control)

1. Ability to lift 125 pounds unassisted in a safe manner, thereby protecting yourself, the patient, and those in close proximity to you.
2. Bend and/or lift to assist client with activities of daily living and manipulate client equipment.

3. Lift to safely transfer or position all patients in various situations.
4. Move, push or pull equipment, beds, stretchers, wheelchairs, etc.
5. Ability to raise arms over one's head in order to assist clients and manipulate equipment.
6. Walk/stand for extended periods and distances over an 8-hour period.

Manual Dexterity (Fine Motor Movement)

1. Accurately manipulate dials, gauges, buttons and switches to set, monitor and care for patient care related equipment.
2. Safely and effectively perform assess and treat a patient.
3. Successfully don and remove protective apparel (including sterile gloves) to maintain standard precautions.

Behavioral/Mental Performance

1. Function safely, effectively and calmly under stressful situations.
2. Prioritize and manage tasks simultaneously.
3. Exhibit social skills necessary to interact therapeutically with patients, families, staff and faculty.
4. Maintain personal hygiene consistent with department dress code guidelines.
5. Display ethical attitudes and actions consistent with professional behavior.
6. Display the social skills to behave with politeness, tact and sensitivity to others in all settings.
7. Exhibit respect for cultural and ethnic differences of patients, peers and individuals.
8. Remain free from alcohol and/or chemical impairment in classroom and clinical settings at all times.

Massachusetts Office of Emergency Services (OEMS) Technical Standards

Be capable of all duties as set forth by the Commonwealth of Massachusetts Office of Emergency Medical Services 105 CMR 170.00.

1. be able to lift and carry 125 pounds
2. possess a valid driver's license
3. be free from any physical or mental defect or disease which might impair his/her ability to provide emergency care within the scope of paramedic training and responsibilities, or which might jeopardize the health of another member of the class
4. be free from addiction to alcohol or any drug

Language & Literature

Department of Language & Literature

Location Wilkens North 204

Hours Monday-Friday, 7:30am-3:30pm

Phone [774.330.4453](tel:774.330.4453)

English Concentration

Degree Type

Associate in Arts

The English concentration is for students who plan to transfer as a junior to a bachelor's degree program.

Students who are matriculated and place into developmental math and/or English are required to begin the course sequence in the first semester. Please see an [advisor](#) with questions.

Student Publications

[Published newspaper and literary works](#)

Transfer Information

[MassTransfer & more](#)

Requirements

First Semester

Item #	Title	Credits
ENL101	English Composition I	3
ENL110	Introduction to Literature	3
	Mathematics/Quantitative Reasoning	3-4
	Behavioral & Social Sciences	3
	Humanities & Fine Arts	3

Second Semester

Item #	Title	Credits
ENL102	English Composition II	3
	Natural or Physical Science	3-4
	COM103 or Concentration Elective	3
	General Education Elective	3
	Elective	3

Third Semester

Item #	Title	Credits
	American, British or World Literature	3
	American, British or World Literature	3
	Natural or Physical Science	4
	Behavioral & Social Sciences	3
	Concentration Elective for English	3

Fourth Semester

Item #	Title	Credits
	American, British or World Literature	3
	Behavioral & Social Sciences	3
	Concentration Elective for English	3
	Concentration Elective for English	3
	Elective (if needed)	2

Note: The Associate in Arts degree does not indicate a specialized degree in a concentration. Students who complete this concentration will satisfy the requirements of [MassTransfer](#). For additional information pertaining to degree requirements, please refer to [Degree Requirements](#).

Total Credits **60-62**

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, law, publishing, advertising, public relations, personnel management, administration, writing, and library services.

This [occupational profile](#) is provided by O*NET.

See also: [What can I do with this major?](#)

Mathematics

Department of Mathematics, Pat Phelan, Administrative Assistant

Office Science 201
Phone 774.330.4363
E-mail pphelan@capecod.edu

Mary E. Sullivan, Chairperson

Office Science 213
Phone 774.330.4260
E-mail msulli01@capecod.edu

Mathematics Concentration

Degree Type

Associate in Arts

Careers in mathematics are diverse, intellectually challenging and financially rewarding. Mathematical research and education are at the heart of some careers such as teaching, actuarial science, operations research, statistics, computer science, and cryptography. Other careers utilize mathematics and its applications to build and enhance important work in the sciences, business, finance, manufacturing, communications, and engineering. Even students who plan to pursue careers in fields not directly related to mathematics will benefit from the analytical and problem-solving skills that are cultivated in rigorous mathematics courses.

Students who are matriculated and placed into developmental math and/or English are required to begin the course sequence in the first semester. Please see an [advisor](#) with questions.

Math Learning Center

[Learning Specialists and Peer Tutors](#)

Transfer Information

[MassTransfer & more](#)

Requirements

First Semester

Item #	Title	Credits
ENL101	English Composition I	3
MAT240	Calculus I	4
PHY211	University Physics I	4
CSC110	Computer Programming I: Java	3
	Behavioral & Social Sciences	3

Second Semester

Item #	Title	Credits
ENL102	English Composition II	3
MAT250	Calculus II	4
PHY212	University Physics II	4
	Humanities & Fine Arts	3
	Behavioral & Social Sciences	3

Third Semester

Item #	Title	Credits
	Humanities & Fine Arts	3
MAT260	Calculus III	4
MAT245	Linear Algebra	3
	STEM Elective	3

Fourth Semester

Item #	Title	Credits
	STEM Elective	3
MAT270	Differential Equations	3
MAT220	Discrete Mathematics & Introduction to Proofs	4
	Elective	3

Note: The Associate in Arts degree does not indicate a specialized degree in a concentration. Students who complete this concentration will satisfy the requirements of [MassTransfer](#). For additional information pertaining to degree requirements, please refer to [Degree Requirements](#).

Total Credits **60**

Career Outlook

This [occupational profile](#) is provided by O*NET.

See also: [What can I do with this major?](#)

Science

Contact the Science Department

Pat Phelan, Administrative Assistant

Office Science 201
Phone 774.330.4363
E-mail pphelan@capecod.edu

Biology Concentration

Degree Type

Associate in Arts

Students who are matriculated and place into developmental math and/or English are required to begin the course sequence in the first semester. Please see an [advisor](#).

Transfer Information

[MassTransfer & more](#)

Requirements

First Semester

Item #	Title	Credits
ENL101	English Composition I	3
BIO151	General Biology I	4
CHM151	General Chemistry I	4
	MAT240 or MAT175 or MAT195	3-4

Second Semester

Item #	Title	Credits
ENL102	English Composition II	3
BIO152	General Biology II	4
CHM152	General Chemistry II	4
	STEM elective	3-4
	Behavioral & Social Sciences	3

Third semester

Item #	Title	Credits
BIO241	Cell Biology	4
CHM251	Organic Chemistry I	5
	Humanities & Fine Arts	3
	STEM elective	3-4

Fourth Semester

Item #	Title	Credits
	BIO205 or BIO242	4
CHM252	Organic Chemistry II	5
	Humanities & Fine Arts	3
	Behavioral & Social Sciences	3

Note: The Associate in Arts degree does not indicate a specialized degree in a concentration. Students who complete this concentration will satisfy the requirements of [MassTransfer](#). For additional information pertaining to degree requirements, please refer to [Degree Requirements](#).

Total Credits **61-64**

Career Outlook

This [occupational profile](#) is provided by O*NET.

See also: [What can I do with this major?](#)

Chemistry Concentration

Degree Type

Associate in Arts

From subatomic particles to life-sustaining biochemical reactions and global interactions of the oceans and earth's atmosphere, Chemistry is the study of the properties and behavior of matter. Chemistry can be pursued as a major field of study leading to career options that include medicine, research, toxicology and analytical chemistry. Chemistry is also a required course for the study of other physical sciences.

Students who are matriculated and place into developmental math and/or English are required to begin the course sequence in the first semester. Please see an [advisor](#) with questions.

Transfer Information

[MassTransfer & more](#)

Requirements

First Semester

Item #	Title	Credits
ENL101	English Composition I	3
BIO151	General Biology I	4
CHM151	General Chemistry I	4
MAT240	Calculus I	4

Second Semester

Item #	Title	Credits
ENL102	English Composition II	3
CHM152	General Chemistry II	4
MAT250	Calculus II	4
	STEM elective	3-4
	Behavioral & Social Sciences	3

Third Semester

Item #	Title	Credits
CHM251	Organic Chemistry I	5
PHY211	University Physics I	4
	Humanities & Fine Arts	3
	STEM elective	3-4

Fourth Semester

Item #	Title	Credits
CHM252	Organic Chemistry II	5
PHY212	University Physics II	4
	Humanities & Fine Arts	3
	Behavioral & Social Sciences	3

Note: The Associate in Arts degree does not indicate a specialized degree in a concentration. Students who complete this concentration will satisfy the requirements of [MassTransfer](#). For additional information pertaining to degree requirements, please refer to [Degree Requirements](#)

Total Credits	62
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Career Outlook

This [occupational profile](#) is provided by O*NET.

See also: [What can I do with this major?](#)

Environmental Studies Concentration

Degree Type

Associate in Arts

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.

Students who place into developmental math and/or English are required to begin the course sequence in the first semester. Please see an [advisor](#) with questions.

Requirements

First Semester

Item #	Title	Credits
ENL101	English Composition I	3
BIO151	General Biology I	4
CHM151	General Chemistry I	4
ENV118	Introduction to Environmental Science	4
MAT150	Elementary Statistics	3

Second Semester

Item #	Title	Credits
ENL102	English Composition II	3
BIO152	General Biology II	4
CHM152	General Chemistry II	4
COM103	Human Communication	3
	Behavioral & Social Sciences	3

Third Semester

Item #	Title	Credits
CHM251	Organic Chemistry I	5
MAT195	Precalculus with Trigonometry	4
	Behavioral & Social Sciences	3
	Humanities & Fine Arts	3

Fourth Semester

Item #	Title	Credits
CHM252	Organic Chemistry II	5
	STEM elective	3-4
	Behavioral & Social Sciences	3
	Humanities & Fine Arts	3

Note: The Associate in Arts degree does not indicate a specialized degree in a concentration. Students who complete this concentration will satisfy the requirements of [MassTransfer](#). For additional information pertaining to degree requirements, please refer to [Degree Requirements](#)

Total Credits	64
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Career Outlook

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

This [occupational profile](#) is provided by O*NET.

See also: [What can I do with this major?](#)

Program Outcomes

Upon 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

Physics Concentration

Degree Type

Associate in Arts

Physics forms the basis for all scientific inquiry and explores matter, energy, and fundamental interactions. Physicists model the physical universe from elementary particles to the structure of the universe. By emphasizing complex real-world problem solving, physicists collaborate across diverse fields such as finance, renewable energy and medicine.

Students who are matriculated and place into developmental math and/or English are required to begin the course sequence in the first semester. Please see an [advisor](#) with questions.

Transfer Information

[MassTransfer & more](#)

Requirements

First Semester

Item #	Title	Credits
ENL101	English Composition I	3
PHY211	University Physics I	4
MAT240	Calculus I	4
CHM151	General Chemistry I	4

Second Semester

Item #	Title	Credits
ENL101	English Composition I	3
PHY211	University Physics I	4
MAT240	Calculus I	4
CHM151	General Chemistry I	4

Second Semester

Item #	Title	Credits
ENL102	English Composition II	3
PHY212	University Physics II	4
MAT250	Calculus II	4
CHM152	General Chemistry II	4

Third Semester

Item #	Title	Credits
MAT260	Calculus III	4
	Humanities & Fine Arts	3
	STEM elective	3-4
	Behavioral & Social Sciences	3
	Elective	3

Fourth Semester

Item #	Title	Credits
MAT270	Differential Equations	3
	Humanities & Fine Arts	3
	Behavioral & Social Sciences	3
	STEM elective	3-4
	Elective (2-3)	2-3

Note: The Associate in Arts degree does not indicate a specialized degree in a concentration. Students who complete this concentration will satisfy the requirements of [MassTransfer](#). For additional information pertaining to degree requirements, please refer to [Degree Requirements](#).

Total Credits

60-62

Career Outlook

This [occupational profile](#) is provided by O*NET.

See also: [What can I do with this major?](#)

Environmental Technology Program

Degree Type

Associate in Science

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](#).

Students who are matriculated and place into developmental math and/or English are required to begin the course sequence in the first semester. Please see an [advisor](#) with questions.

Requirements

First Semester

Item #	Title	Credits
ENL101	English Composition I	3
CHM106	Survey of Chemistry	4
ENV118	Introduction to Environmental Science	4
COM103	Human Communication Behavioral & Social Sciences	3

Second Semester

Item #	Title	Credits
ENL102	English Composition II	3
ESC101	Introduction to Earth Science	4
ENV101	Survey of Environmental Technology	3
ENV115	Environmental Chemistry Behavioral & Social Sciences	3

Third Semester

Item #	Title	Credits
MAT150	Elementary Statistics	3
ENV125	Coastal Ecology	3
ENV163	Geographic Information Systems (GIS) I	3
	STEM Elective	3
	STEM Elective	3

Fourth Semester

Item #	Title	Credits
ENV158	Occupational Health and Safety (OSHA) through Hazardous Waste Management	3
ENV201	Environmental Instrumentation	4
	STEM Elective	3
	STEM Elective	3
ENV260	Environmental Technology Internship/Cooperative Experience	1-3
Total Credits		62-64

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.

This [occupational profile](#) is provided by O*NET.

See also: [What can I do with this major?](#)

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.

Coastal Zone Management Technology Degree Type

Certificate

The Coastal Zone Management certificate is for persons seeking to acquire skills and knowledge in environmental issues unique to Cape Cod and other coastal regions. This certificate is designed to provide students with up-to-date knowledge of the principles and practices of managing coastal areas to balance environmental, economic, human health, and human activities. 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.

Students are encouraged to enroll in ENV260 Cooperative Work Experience/Internship.

Requirements

Courses

Item #	Title	Credits
ENV118	Introduction to Environmental Science	4
ESC105	Fundamentals Of Oceanography	4
ENV125	Coastal Ecology	3
ENV135	Coastal Zone Management Laws and Regulations	3
	ENV260 Internship	3
Total Credits		14-17

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 10 to 19 percent for all environmental technician occupations through the year 2022. 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.

This [occupational profile](#) is provided by O*NET.

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.

Horticulture

Degree Type

Certificate

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.

Requirements

Courses

Item #	Title	Credits
HOR101	Plant and Soil Science	4
HOR102	Entomology and Plant Diseases	3
HOR103	Woody Plant Identification and Culture	3
HOR104	Turf Management	3
HOR201	Herbaceous Plant Identification and Culture	3
	Horticulture Elective	3
	Elective for Horticulture	3
	Elective for Horticulture	3
	General Education Elective	3

Completion of a program is based on full time enrollment. Many of our students attend part time and may not complete within the one year timeline.

Total Credits

28

Career Outlook

This [occupational profile](#) is provided by O*NET.

Horticulture Technician

Degree Type

Certificate

The Horticulture Technician certificate provides an overview of the identification and culture of woody and herbaceous plants as well as landscape design and construction.

Requirements

Courses

Item #	Title	Credits
HOR101	Plant and Soil Science	4
HOR103	Woody Plant Identification and Culture	3
HOR106	Horticulture Practicum	1
HOR201	Herbaceous Plant Identification and Culture	3
HOR202	Landscape Design and Construction	3
	Horticulture Elective	3

Completion of a program is based on full time enrollment. Many of our students attend part time and may not complete within the one year timeline.

Total Credits **17**

Career Outlook

This [occupational profile](#) is provided by O*NET.

Landscape Construction Technician

Degree Type

Certificate

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.

Requirements

Courses

Item #	Title	Credits
HOR101	Plant and Soil Science	4
HOR103	Woody Plant Identification and Culture	3
HOR105	Equipment Maintenance and 3 Operation	3
HOR106	Horticulture Practicum	1
HOR202	Landscape Design and Construction	3
	Horticulture Elective	3

Completion of a program is based on full time enrollment. Many of our students attend part time and may not complete within the one year timeline.

Total Credits **17**

Career Outlook

This [occupational profile](#) is provided by O*NET.

Landscape Maintenance Technician

Degree Type

Certificate

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.

Requirements

Courses

Item #	Title	Credits
HOR101	Plant and Soil Science	4
HOR103	Woody Plant Identification and Culture	3
HOR104	Turf Management	3
HOR105	Equipment Maintenance and 3 Operation	3
HOR106	Horticulture Practicum	1
	Horticulture Elective	3

Completion of a program is based on full time enrollment. Many of our students attend part time and may not complete within the one year timeline.

Total Credits **17**

Career Outlook

This [occupational profile](#) is provided by O*NET.

Sustainable Energy

Degree Type

Certificate

The Sustainable Energy Certificate is designed to provide focused training in the breadth of issues that confront our society in its need for clean, affordable and reliable energy while using the specific energy principles surrounding wind and solar energy for honing planning, critical thinking, and problem solving skills.

Requirements

Courses

Item #	Title	Credits
ENV165	Renewable Energy, Climate & Careers	3
ENV173	Introduction to Solar Energy	3
ENV177	Introduction to Wind Energy	3
Total Credits		9

Career Outlook

Individuals with these skills are projected to be in demand with a projected growth (2018–2028) of faster than average (7% to 10%) from the Bureau of Labor Statistics 2018 wage data and 2018–2028 employment projections.

Program Outcomes

Upon successful completion of the Sustainable Energy certificate, students are able to:

- Describe basic energy concepts, laws, and theories.
- Compare and contrast conventional energy systems and technologies, historical trends, and societal benefits.
- Conduct economic and environmental analysis of energy efficiency and renewable energy options.
- Integrate energy and climate considerations in personal and business decisions.
- Explore energy-related education and training aligned with career opportunities.
- Explain how solar and or wind energy can be utilized for a variety of energy demand applications in residential, commercial, and municipal buildings.
- Discuss the benefits and limitations of various solar and or wind energy technologies that are commonly used to produce heat, hot water, and electricity are examined.
- Conduct sizing, system design, and economic and environmental analysis for solar and wind based implementations.

Social Sciences/Behavioral Sciences and Human Services

Wendy Hammond, Administrative Assistant

Location MM Wilkens Hall, Room 237

Phone 774.330.4361

E-mail w Hammond@capecod.edu

Education Concentration Degree Type

Associate in Arts

The Education 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.

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

Students who are matriculated and place into developmental math and/or English are required to begin the course sequence in the first semester. Please see an [advisor](#) with questions.

Requirements

First Semester

Item #	Title	Credits
ENL101	English Composition I	3
	Mathematics/Quantitative Reasoning	3-4
COM103	Human Communication	3
PSY101	General Psychology	3
	Elective	3

Second Semester

Item #	Title	Credits
ENL102	English Composition II	3
	Natural or Physical Science	4
	PSY202 or PSY233	3
	Humanities & Fine Arts	3
	Concentration Elective (Education)	3

Third Semester

Humanities & Fine Arts: 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.

Item #	Title	Credits
	Natural or Physical Science	3-4
	Humanities & Fine Arts	3
	Behavioral & Social Sciences	3
	Concentration Elective (Education)	3
	Elective (Education)	3

Fourth Semester

Item #	Title	Credits
	Concentration Elective (Education)	3
	Concentration Elective (Education)	3
	Concentration Elective (Education)	3
	Elective (Education)	3
	Elective (Education)	2-3

Note: The Associate in Arts degree does not indicate a specialized degree in a concentration. Students who complete this concentration will satisfy the requirements of [MassTransfer](#). For additional information pertaining to degree requirements, please refer to [Degree Requirements](#)

Total Credits **60-61**

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.

This [occupational profile](#) is provided by O*NET.

See also: [What can I do with this major?](#)

Elementary Education Transfer Compact

Degree Type

Associate in Arts

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) 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. Elementary Education students must pass two additional MTEL tests: General Curriculum and Foundations of Reading before beginning their education coursework at the bachelor's level.

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

Students who are matriculated and placed into developmental math and/or English are required to begin the course sequence in the first semester. Please see an [advisor](#) with questions.

Transfer Information

[MassTransfer & more](#)

Requirements

First Semester

Item #	Title	Credits
ENL101	English Composition I	3
COM103	Human Communication	3
EDU101	Foundation of Education	3
PSY101	General Psychology	3
	Behavioral & Social Sciences (for Elementary Education)	3

Second Semester

Item #	Title	Credits
ENL102	English Composition II	3
PSY201	Child Psychology	3
HIS103	U.S. History to 1865	3
ENL120	Introduction to Children's Literature	3
	Elective	3

Third Semester

Item #	Title	Credits
	Behavioral & Social Sciences (for Elementary Education)	3
	Biological Science	4
MAT120	Mathematics for Elementary & Early Childhood Educators I	3
	Concentration Elective for Elementary Education	1
	Concentration Elective for Elementary Education	3

Fourth Semester

Item #	Title	Credits
MAT121	Mathematics for Elementary & Early Childhood Educators II	3
	Physical Science	4
	Humanities & Fine Arts (Literature)	3
	Concentration Elective for Elementary Education	3
	Concentration Elective for Elementary Education	3

Note: The Associate in Arts degree does not indicate a specialized degree in a concentration. Students who complete this concentration will satisfy the requirements of [MassTransfer](#). For additional information pertaining to degree requirements, please refer to

Please refer to the policy statement of checks.

Total Credits **60**

Career Outlook

Students completing a bachelor's degree in Elementary Education receive initial licensure to teach and are ready to enter the teaching profession. Students are eligible to teach in public and private schools in grades 1-6. Students must obtain a master's degree to receive professional licensure.

This [occupational profile](#) is provided by O*NET.

See also: [What can I do with this major?](#)

History Concentration

Degree Type

Associate in Arts

A student who chooses the History concentration will develop intercultural competencies and a solid foundation in the history of the United States as well as international histories. Courses

address learning needs related to the development of educated and informed citizens prepared for the global realities of the 21st century. A student who completes this concentration will be prepared for transfer to a bachelor's program.

Students who are matriculated and place into developmental math and/or English are required to begin the course sequence in the first semester. Please see an [advisor](#) with questions.

Transfer Information

[MassTransfer & more](#)

Requirements

First Semester

Item #	Title	Credits
ENL101	English Composition I	3
	Mathematics/Quantitative Reasoning	3-4
COM103	Human Communication	3
	World History to 1500CE & World History from 1500CE (HIS119 & HIS120) (or) European History I & II (HIS160 & HIS162)	3
	Elective	3

Second Semester

Item #	Title	Credits
ENL102	English Composition II	3
	Natural or Physical Science	4
	Humanities & Fine Arts	3
	World History to 1500CE & World History from 1500CE (HIS119 & HIS120) (or) European History I & II (HIS160 & HIS162)	3
	Elective (2-3)	2-3

Third Semester

Item #	Title	Credits
	Natural or Physical Science	3-4
	Behavioral & Social Sciences (GEO)	3
	Elective	3
HIS103	U.S. History to 1865	3
	Concentration Elective (200-level History)	3

Fourth Semester

Item #	Title	Credits
	Humanities & Fine Arts	3
	Elective	3
	Elective	3
HIS104	U.S. History since 1865	3
	Concentration Elective (200-level History)	3

Note: The Associate in Arts degree does not indicate a specialized degree in a concentration. Students who complete this concentration will satisfy the requirements of [MassTransfer](#). For additional information pertaining to degree requirements, please refer to [Degree Requirements](#).

Total Credits **60-62**

Career Outlook

The History concentration gives a student a strong foundation for further studies in the areas of education, government, diplomacy, law, journalism, business, political science, research and teaching within the humanities or social sciences, as well as non-profit work. Students should note that entry-level job requirements in these areas always call for a minimum of a bachelor's degree.

This [occupational profile](#) is provided by O*NET.

See also: [What can I do with this major?](#)

Human Services Concentration

Degree Type

Associate in Arts

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.

Students who are matriculated and place into developmental math and/or English are required to begin the course sequence in the first semester. Please see an [advisor](#) with questions.

In addition to classroom instruction, this program has a minimum of at least one required practicum component, depending on the student's academic and occupational goals. All practicum classes require students to complete, during a semester, 100 hours of unpaid, field work in an approved Human Service site, with a partnering agency. By the end of the completion of the program students will have developed a transferrable portfolio of coursework and practicum experiences.

The Human Services Program is taught by faculty instructors who are currently practicing clinicians in a number of human service organizations throughout the Cape Cod area. The faculty instructors are dedicated to helping students achieve their goals to complete the program to either transfer their associate degrees to a baccalaureate (4 year) institution or to help develop the necessary skill sets to work in entry level positions in the human service field.

Community Support Skill Standards

The Human Services Certificate Program embraces the Community Support Skill Standards (CSSS), which are the core skills defined by direct support professionals. The classes in the certificate program promote the CSSS and the required service learning helps the student reflect on how these skills are utilized in the field. The ethical guidelines students will adhere to are established by the National Organization of Human Service Education.

The following CSSS competency areas are guidelines for learning in the Human Services Certificate program:

Competency Area 1: Participant Empowerment

The competent community support human service practitioner (CSHSP) enhances the ability of the participant to lead a self-determining life by providing the support and information necessary to build self-esteem, and assertiveness; and to make decisions.

Competency Area 2: Communication

The competent community support human service practitioner (CSHSP) enhances the ability of the participant to lead a self-determining life by providing the support and information necessary to build self-esteem, and assertiveness; and to make decisions.

Competency Area 3: Assessment

The CSHSP should be knowledgeable about formal and informal assessment practices in order to respond to the needs, desires and interests of the participants.

Competency Area 4: Community and Service Networking

The CSHSP should be knowledgeable about the formal and informal supports available in his or her community and skilled in assisting the participant to identify and gain access to such supports.

Competency Area 5: Facilitation of Services

The CSHSP is knowledgeable about a range of participatory planning techniques and is skilled in implementing plans in a collaborative and expeditious manner.

Competency Area 6: Community Living Skills & Supports

The CSHSP has the ability to match specific supports and interventions to the unique needs of individual participants and recognizes the importance of friends, family and community relationships.

Competency Area 7: Education, Training & Self-Development

The CSHSP should be able to identify areas for self-improvement, pursue necessary educational/training resources, and share knowledge with others.

Competency Area 8: Advocacy

The CSHSP should be knowledgeable about the diverse challenges facing participants (e.g. human rights, legal, administrative and financial) and should be able to identify and use effective advocacy strategies to overcome such challenges.

Competency Area 9: Vocational, Educational & Career Support

The CSHSP should be knowledgeable about the career and education related concerns of the participant and should be able to mobilize the resources and support necessary to assist the participant to reach his or her goals.

Competency Area 10: Crisis Intervention

The CSHSP should be knowledgeable about crisis prevention, intervention and resolution techniques and should match such techniques to particular circumstances and individuals.

Competency Area 11: Organization Participation

The CSHSP is familiar with the mission and practices of the support organization and participates in the life of the organization.

Competency Area 12: Documentation

The CSHSP is aware of the requirements for documentation in his or her organization and is able to manage these requirements efficiently.

Transfer Information

Transfer Agreements:
[Human Services](#)

Requirements

First Semester

Item #	Title	Credits
ENL101	English Composition I	3
MAT150	Elementary Statistics	3
	Elective	3
PSY101	General Psychology	3
HUS101	Introduction to Human Services	3

Second Semester

Item #	Title	Credits
ENL102	English Composition II	3
	Natural or Physical Science (BIO109 or BIO151)	4
PSY209	Group Dynamics in Human Services	3
	PSY201 or PSY202 or PSY233	3
COM103	Human Communication	3

Third Semester

Item #	Title	Credits
	Natural or Physical Science	3-4
	Humanities & Fine Arts	3
PSY208	Principles of Counseling & Crisis Intervention	3
HUS229	Introduction to Social Welfare	3
	Concentration Elective for Human Services	3

Fourth Semester

Item #	Title	Credits
HUS270	Social Work: Diversity, Cultural Competence & Social Justice	3
HUS206	Human Services Practicum	4
	Humanities & Fine Arts	3
	Elective	3
	Elective (if needed)	1-3

Note: The Associate in Arts degree does not indicate a specialized degree in a concentration. Students who complete this concentration will satisfy the requirements of [MassTransfer](#). For additional information pertaining to degree requirements, please refer to [Degree Requirements](#).

Total Credits

60-63

Career Outlook

This course of study provides the basic curriculum for pursuing a major in the human

services and related areas which include social work, counseling and other careers in public and private human service agencies.

This [occupational profile](#) is provided by O*NET.

See also: [What can I do with this major?](#)

Community Support Skill Standards

The Human Services Certificate Program embraces the Community Support Skill Standards (CSSS), which are the core skills defined by direct support professionals. The classes in the certificate program promote the CSSS and the required service learning helps the student reflect on how these skills are utilized in the field. The ethical guidelines students will adhere to are established by the National Organization of Human Service Education.

The following CSSS competency areas are guidelines for learning in the Human Services Certificate program:

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The CSHSP should be knowledgeable about crisis prevention, intervention and resolution techniques and should match such techniques to particular circumstances and individuals.

Competency Area 11: Organization Participation

The CSHSP is familiar with the mission and practices of the support organization and participates in the life of the organization.

Competency Area 12: Documentation

The CSHSP is aware of the requirements for documentation in his or her organization and is able to manage these requirements efficiently.

Philosophy Concentration

Degree Type

Associate in Arts

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.

Students who are matriculated and place into developmental math and/or English are required to begin the course sequence in the first semester. Please see an [advisor](#) with questions.

Transfer Information

[MassTransfer & more](#)

Requirements

First Semester

Item #	Title	Credits
ENL101	English Composition I	3
MAT150	Elementary Statistics	3
	COM103 or Humanities & Fine Arts	3
PHI130	Introduction To Philosophy	3
	Elective	3

Second Semester

Item #	Title	Credits
ENL102	English Composition II	3
	Natural or Physical Science	4
	HIS119 or HIS160	3
	Concentration Elective for Philosophy	3
PHI131	Logic	3

Third Semester

Item #	Title	Credits
	Natural or Physical Science	3-4
	Concentration Elective for Philosophy	3
	Humanities & Fine Arts	3
	Elective	3
	HIS120 or HIS162	3

Fourth Semester

Item #	Title	Credits
	Concentration Elective for Philosophy	3
PHI201	Existentialism	3
	Humanities & Fine Arts	3
	Elective	3
	Elective (if needed)	2-3

Note: The Associate in Arts degree does not indicate a specialized degree in a concentration. Students who complete this concentration will satisfy the requirements of [MassTransfer](#). For additional information pertaining to degree requirements, please refer to [Degree Requirements](#).

Total Credits **60-61**

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.

This [occupational profile](#) is provided by O*NET.

See also: [What can I do with this major?](#)

Political Science Concentration

Degree Type

Associate in Arts

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.

Students who are matriculated and place into developmental math and/or English are required to begin the course sequence in the first semester. Please see an [advisor](#) with questions.

Transfer Information

[MassTransfer & more](#)

Requirements

First Semester

Item #	Title	Credits
ENL101	English Composition I	3
	Mathematics/Quantitative Reasoning	3-4
	Humanities & Fine Arts (COM103 suggested)	3
GOV111	American Government	3
	Elective	3

Second Semester

Item #	Title	Credits
ENL102	English Composition II	3
	Natural or Physical Science	4
	Humanities & Fine Arts	3
GOV101	Comparative Politics	3
GEO104	Geography: Culture and Environment	3

Third Semester

Item #	Title	Credits
	Natural or Physical Science	3-4
	Humanities & Fine Arts	3
GOV102	International Relations	3
HIS103	U.S. History to 1865	3
	Elective	3

Fourth Semester

Item #	Title	Credits
HIS104	U.S. History since 1865	3
	Concentration Elective for Political Science	3
	Concentration Elective for Political Science	3
	Elective	3
	Elective (2-3)	2-3

Note: The Associate in Arts degree does not indicate a specialized degree in a concentration. Students who complete this concentration will satisfy the requirements of [MassTransfer](#). For additional information pertaining to degree requirements, please refer to [Degree Requirements](#).

Total Credits **60-61**

Career Outlook

This concentration is for students interested in any level of government, political involvement, the Foreign Service, the law profession, teaching, public administration, or 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.

This [occupational profile](#) is provided by O*NET.

See also: [What can I do with this major?](#)

Psychology Concentration

Degree Type

Associate in Arts

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.

Students who are matriculated and place into developmental math and/or English are required to begin the course sequence in the first semester. Please see an [advisor](#) with questions.

Transfer Information

[MassTransfer & more](#)

Requirements

First Semester

Item #	Title	Credits
ENL101	English Composition I	3
	Mathematics/Quantitative Reasoning (MAT150 suggested)	3
	Humanities & Fine Arts (COM103 suggested)	3
PSY101	General Psychology	3
	Elective	3

Second Semester

Item #	Title	Credits
ENL102	English Composition II	3
	Natural or Physical Science (BIO109 or BIO151)	4
	Humanities & Fine Arts	3
PSY214	Research Methods in Psychology	3
	Elective	3

Third Semester

Item #	Title	Credits
	Natural or Physical Science	3-4
SOC106	Principles of Sociology	3
	Concentration Elective for Psychology	3
	Concentration Elective for Psychology	3
	Elective	3

Fourth Semester

Item #	Title	Credits
	Humanities & Fine Arts	3
	General Education Elective (HIS)	3
	Concentration Elective for Psychology	3
	Concentration Elective for Psychology	3
	Elective (if needed)	2-3

Note: The Associate in Arts degree does not indicate a specialized degree in a concentration. Students who complete this concentration will satisfy the requirements of [MassTransfer](#). For additional information pertaining to degree requirements, please refer to [Degree Requirements](#).

Total Credits **60-61**

Career Outlook

This 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.

This [occupational profile](#) is provided by O*NET.

See also: [What can I do with this major?](#)

Sociology/Anthropology Concentration

Degree Type

Associate in Arts

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.

Students who are matriculated and place into developmental math and/or English are required to begin the course sequence in the first semester. Please see an [advisor](#) with questions.

Transfer Information

[MassTransfer & more](#)

Requirements

First Semester

Item #	Title	Credits
ENL101	English Composition I	3
MAT150	Elementary Statistics	3
COM103	Human Communication	3
SOC106	Principles of Sociology	3
	Elective	3

Second Semester

Item #	Title	Credits
ENL102	English Composition II	3
	Natural or Physical Science	4
PSY101	General Psychology	3
ANT107	Introduction to Anthropology	3
	Elective	3

Third Semester

Item #	Title	Credits
	Natural or Physical Science	3-4
	Humanities & Fine Arts	3
	Elective (HIS or GOV)	3
SOC215	Social Problems	3
SOC210	Marriage & Family: Sociology of Family Interaction and Organization	3

Fourth Semester

Item #	Title	Credits
	Humanities & Fine Arts	3
SOC209	Sociology of Race & Ethnicity	3
	Elective	3
	Concentration Elective (SOC3 or ANT)	3
	Elective (if needed)	2-3

Note: The Associate in Arts degree does not indicate a specialized degree in a concentration. Students who complete this concentration will satisfy the requirements of [MassTransfer](#). For additional information pertaining to degree requirements, please refer to [Degree Requirements](#).

Total Credits

60-61

Career Outlook

The Sociology/Anthropology concentration prepares students to major in Sociology, Anthropology and related fields such as American Studies, Social Work, Criminology, Demography, Juvenile Delinquency, 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.

This [occupational profile](#) is provided by O*NET.

See also: [What can I do with this major?](#)

Criminal Justice Program

Degree Type

Associate in Science

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.

Students who are matriculated and place into developmental math and/or English are required to begin the course sequence in the first semester. Please see an [advisor](#) with questions.

As the only public institution offering a Criminal Justice degree on Cape Cod, we have created a student-centered learning community that prepares students for a variety of professional opportunities in the various criminal justice careers such as probation, corrections, law enforcement and employment in the court system. Through classroom instruction and experiential learning we provide a broad understanding of the criminal justice system and a fundamental knowledge of the social and behavioral sciences, particularly as they apply to the field of criminal justice.

Transfer Information

Transfer Agreements:
[Criminal Justice](#)

Requirements

Item #	Title	Credits
CRJ100	Introduction to Criminal Justice	3
CRJ105	Criminology, Theory and Practice	3
CRJ116	Introduction to Corrections	3
ENL101	English Composition I	3
	Mathematics/Quantitative Reasoning (or) Natural or Physical Science	3-4

Second Semester

Item #	Title	Credits
CRJ103	Criminal Law	3
CRJ125	Contemporary Policing	3
	Criminal Justice Elective	3
BIO105	Survey: Human Anatomy & Physiology	4
	ENL102 or COM103	3

Third Semester

Item #	Title	Credits
CRJ206	Principles of Investigation I	3
CRJ210	Ethical Issues in Criminal Justice	3
	Criminal Justice Elective	3
HIS104	U.S. History since 1865	3
PSY101	General Psychology	3

Fourth Semester

Item #	Title	Credits
CRJ207	Principles of Investigation II	3
CRJ240	Selected Issues in Criminal Justice	3
CRJ261	Criminal Justice Cooperative Work Experience	3
SOC106	Principles of Sociology	3
	Elective	3

[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 \(CORI\)](#) and [Sex Offender Registry Information \(SORI\)](#) checks.

Total Credits	61-62
Career Outlook	

The Criminal Justice program prepares students who intend to enter the fields of Law Enforcement, Corrections, or the Court System at all governmental levels. Also, careers in the private sector that include, but are not limited to private security, industrial security, and various external agencies that are associated with the criminal justice community.

This [occupational profile](#) is provided by O*NET.

See also: [What can I do with this major?](#)

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.

Early Childhood Education Program – Career Option

Degree Type

Associate in Science

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.

The Early Childhood Education degree at Cape Cod Community College is accredited by the Commission on the Accreditation of Early Childhood Higher Education Programs of the *National Association for the Education of Young Children*.

The current accreditation term runs from July 1, 2021 through July 30, 2023.

Overview

The Early Childhood Education Program – Career Option 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.

Students who are matriculated and place into developmental math and/or English are required to begin the course sequence in the first semester. Please see an [advisor](#) with questions.

Check out the [Career Pathways Grant](#) for the opportunity to save money and earn your Child Development Associate credential while you pursue your degree.

Transfer Information

Transfer Agreement:
[Early Childhood Education](#)

Requirements

First Semester

Item #	Title	Credits
ENL101	English Composition I	3
ECE100	Introduction to Early Childhood Education	3
PSY101	General Psychology	3
SOC106	Principles of Sociology	3
	Mathematics/Quantitative Reasoning (or) Natural or Physical Science	3-4

Second Semester

Item #	Title	Credits
ENL102	English Composition II	3
ECE105	Introduction to Young Children with Special Needs (Birth-8 years)	3
ECE201	Preschool Curriculum Planning	3
PSY201	Child Psychology	3
	Mathematics/Quantitative Reasoning (or) Natural or Physical Science	3-4

Third Semester

Item #	Title	Credits
ENL120	Introduction to Children's Literature	3
ECE202	Advanced Curriculum Development: Creative Experiences for Early Childhood Education	3
ECE206	Field Experience in Early Childhood Education	1
ECE221	Classroom Management: Skills and Strategies for Early Childhood Teachers	3
ECE291	Leadership and Management in Early Childhood Education	2
COM103	Human Communication	3

Fourth Semester

Item #	Title	Credits
	SOC210 or SOC215	3
ECE230	Practicum in Early Childhood Education Preschool	6
	Early Childhood Education Elective	3
	Elective	3

Related Information

- [Early Childhood Education Program Outcomes](#)
- [Career Pathways Grant](#)

Total Credits

60

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.

This [occupational profile](#) is provided by O*NET.

See also: [What can I do with this major?](#)

Program Outcomes

Upon successful 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.

Technical Standards

The following information is being provided as required by the Federal Government Section 504 of the Rehabilitation Act of 1973 in response to the American with Disabilities Act.

In order to successfully complete the Early Childhood Education Program, certain cognitive, physical and behavioral capabilities, as specified in the U.S. Department of Labor Core Tasks and Massachusetts Department of Early Education and Care regulations, are required in course work and as part of your field experience. Early Childhood Education students must be able to satisfy these essential program standards with or without a reasonable accommodation in order to enroll into and successfully progress through the program. These include:

Communication

Early Childhood teachers must be able to communicate effectively in English with children, families, colleagues, and others in the community.

1. Speaking – Talking clearly to others to convey information effectively.
2. Oral Expression – The ability to orally communicate information and ideas clearly so others will understand.
3. Oral Comprehension – The ability to listen to and understand information and ideas presented through spoken words and sentences.
4. Writing – Communicating clearly and effectively in writing as appropriate for the needs of the audience.
5. Social Perceptiveness – Being aware of others' reactions and understanding why they react as they do.
6. Reading – Read and understand written materials.

Cognitive Performance

Early Childhood teachers must be able to think independently to solve problems in the classroom to support children's development and learning and keep children safe.

1. Problem Sensitivity – The ability to tell when something is wrong or is likely to go wrong.
2. Critical Thinking – Using logic and reasoning to identify the strengths and weaknesses of alternative solutions, conclusions or approaches to problems.
3. Judgment and Decision Making – Considering the relative costs and benefits of potential actions to choose the most appropriate one. Remaining calm and thinking logically and effectively under emergency circumstances
4. Complex Problem Solving – Identifying complex problems and reviewing related information to develop and evaluate options and implement solutions.
5. Speed of Closure – The ability to quickly make sense of, combine, and organize information into meaningful patterns.
6. Management of Time – Effectively manage time for self and others.

Behavioral Performance

Early Childhood teachers must be able to combine their knowledge, skills, and abilities to perform many tasks and meet state regulations for early childhood programs.

1. Establishing and Maintaining Interpersonal Relationships – Developing constructive and cooperative working relationships with others, and maintaining them over time.
2. Resolving Conflicts and Negotiating with Others – Handling complaints, settling disputes, and resolving grievances and conflicts, or otherwise negotiating with others.
3. Time Sharing – The ability to shift back and forth between two or more activities or sources of information (such as speech, sounds, touch, or other sources).
4. Evaluating Information to Determine Compliance with Standards – Using relevant information and individual judgment to determine whether events or processes comply with laws, regulations, or standards.
5. Documenting/Recording Information – Entering, transcribing, recording, storing, or maintaining information in written or electronic/magnetic form.

Physical

Early Childhood teachers must be able to keep children safe during inside and outside play and activities, including evacuation drills, as well as attend to their physical needs, including feeding, changing clothing and diapers, and providing medication.

1. Near Vision – The ability to see details at close range (within a few feet of the observer) and recognize differences between colors, shades, and brightness.

2. Far Vision - The ability to see details at a distance and recognize differences between colors, shades, and brightness.
3. Performing General Physical Activities - Performing physical activities that require considerable and extended use of your arms and legs and moving your whole body, such as standing for long periods of time, running, climbing, lifting, balancing, walking, stooping, and handling of materials; use muscles to lift, push, pull, or carry heavy objects; use one or two hands to grasp, move, or assemble objects; and use fingers to grasp, move, or assemble very small objects.
4. Assisting and Caring for Others - Providing personal assistance, medical attention, emotional support, or other personal care to children.

Mission

The Early Childhood Education Program at Cape Cod Community College embraces the NAEYC's assumption that "All young children, birth through age eight, should have access to high-quality early childhood education services." Early Childhood Education is an inclusive and engaging process that is part of the complex system in the lives of young children and families. We believe the following:

- Children are active and enthusiastic learners. They thrive in an environment of trust, respect, joy and beauty. Children are the center of our work and our vision.
- Families are the primary decision-makers in their children's lives, engaged in reciprocal, collaborative partnerships with early childhood personnel.
- Early Childhood programs are inclusive, supportive environments for children, families and staff. Staff are well-trained and qualified in their positions. Professional development is thoughtful and on-going.
- Community college students are diverse learners. They benefit from a variety of instructional and assessment strategies that include both theory and practical experience, based on comprehensive, standards-based outcomes. They bring diverse potential and experience with them to the college classroom.
- Early Childhood Faculty are professional, ethical, qualified and committed to the mission of the college and the program. They have educational and experiential expertise. They are life-long learners.
- Community and government support and recognition are essential for a healthy, equitable system of early care and education. Families, teachers, college

students, professors, citizens and elected officials must work together to create a better future for all children.

Early Childhood Education Program - Transfer

Degree Type

Associate in Science

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.

The Early Childhood Education degree at Cape Cod Community College is accredited by the Commission on the Accreditation of Early Childhood Higher Education Programs of the *National Association for the Education of Young Children*.

The current accreditation term runs from July 1, 2021 through July 30, 2023.

Overview

Students in the Early Childhood Education Program - Transfer Compact 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 educational program. If student do not meet the criteria above, they may be admitted to the required academic (second) major on initial acceptance to the bachelor's institution.

Students who are matriculated and place into developmental math and/or English are required to begin the course sequence in the first semester. Please see an [advisor](#) with questions.

Transfer Information

Transfer Agreement:
[Early Childhood Education](#)

Requirements

First Semester

Item #	Title	Credits
ENL101	English Composition I	3
ECE100	Introduction to Early Childhood Education	3
PSY101	General Psychology	3
SOC106	Principles of Sociology	3
	Natural or Physical Science (Biology)	4

Second Semester

Item #	Title	Credits
ENL102	English Composition II	3
ECE105	Introduction to Young Children with Special Needs (Birth-8 years)	3
ECE201	Preschool Curriculum Planning	3
PSY201	Child Psychology	3
	Natural or Physical Science (Physical)	4

Third Semester

Item #	Title	Credits
ENL120	Introduction to Children's Literature	3
ECE202	Advanced Curriculum Development: Creative Experiences for Early Childhood Education	3
ECE206	Field Experience in Early Childhood Education	1
	SOC210 or SOC215	3
COM103	Human Communication	3
	Mathematics/Quantitative Reasoning	3

Fourth Semester

Item #	Title	Credits
ECE230	Practicum in Early Childhood Education Preschool	6
GOV111	American Government	3
	Humanities & Fine Arts for Early Childhood Education	3
	Humanities & Fine Arts for Early Childhood Education	3

Please refer to the policy statement of [Criminal Offender Record Information \(CORI\)](#) and [Sex Offender Registry Information \(SORI\)](#) checks.

Related Information

- [Early Childhood Education Program Outcomes](#)
- [Career Pathways Grant](#)

Total Credits

63

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.

This [occupational profile](#) is provided by O*NET.

See also: [What can I do with this major?](#)

Technical Standards

The following information is being provided as required by the Federal Government Section 504 of the Rehabilitation Act of 1973 in response to the American with Disabilities Act.

In order to successfully complete the Early Childhood Education Program, certain cognitive, physical and behavioral capabilities, as specified in the U.S. Department of Labor Core Tasks and Massachusetts Department of Early Education and Care regulations, are required in course work and as part of your field experience. Early Childhood Education students must be able to satisfy these essential program standards with or without a reasonable accommodation in order to enroll into and successfully progress through the program. These include:

Communication

Early Childhood teachers must be able to communicate effectively in English with children, families, colleagues, and others in the community.

1. Speaking - Talking clearly to others to convey information effectively.
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4. Writing – Communicating clearly and effectively in writing as appropriate for the needs of the audience.
5. Social Perceptiveness – Being aware of others’ reactions and understanding why they react as they do.
6. Reading – Read and understand written materials.

Cognitive Performance

Early Childhood teachers must be able to think independently to solve problems in the classroom to support children’s development and learning and keep children safe.

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4. Complex Problem Solving – Identifying complex problems and reviewing related information to develop and evaluate options and implement solutions.
5. Speed of Closure – The ability to quickly make sense of, combine, and organize information into meaningful patterns.
6. Management of Time – Effectively manage time for self and others.

Behavioral Performance

Early Childhood teachers must be able to combine their knowledge, skills, and abilities to perform many tasks and meet state regulations for early childhood programs.

1. Establishing and Maintaining Interpersonal Relationships – Developing constructive and cooperative working relationships with others, and maintaining them over time.
2. Resolving Conflicts and Negotiating with Others – Handling complaints, settling disputes, and resolving grievances and conflicts, or otherwise negotiating with others.
3. Time Sharing – The ability to shift back and forth between two or more activities or sources of information (such as speech, sounds, touch, or other sources).
4. Evaluating Information to Determine Compliance with Standards – Using relevant information and individual judgment to determine whether events or processes comply with laws, regulations, or standards.

5. Documenting/Recording Information – Entering, transcribing, recording, storing, or maintaining information in written or electronic/magnetic form.

Physical

Early Childhood teachers must be able to keep children safe during inside and outside play and activities, including evacuation drills, as well as attend to their physical needs, including feeding, changing clothing and diapers, and providing medication.

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3. Performing General Physical Activities – Performing physical activities that require considerable and extended use of your arms and legs and moving your whole body, such as standing for long periods of time, running, climbing, lifting, balancing, walking, stooping, and handling of materials; use muscles to lift, push, pull, or carry heavy objects; use one or two hands to grasp, move, or assemble objects; and use fingers to grasp, move, or assemble very small objects.
4. Assisting and Caring for Others – Providing personal assistance, medical attention, emotional support, or other personal care to children.

Mission

The Early Childhood Education Program at Cape Cod Community College embraces the NAEYC’s assumption that “All young children, birth through age eight, should have access to high-quality early childhood education services.” Early Childhood Education is an inclusive and engaging process that is part of the complex system in the lives of young children and families. We believe the following:

- Children are active and enthusiastic learners. They thrive in an environment of trust, respect, joy and beauty. Children are the center of our work and our vision.
- Families are the primary decision-makers in their children’s lives, engaged in reciprocal, collaborative partnerships with early childhood personnel.
- Early Childhood programs are inclusive, supportive environments for children, families and staff. Staff are well-trained and qualified in their positions. Professional development is thoughtful and on-going.
- Community college students are diverse learners. They benefit from a variety of

instructional and assessment strategies that include both theory and practical experience, based on comprehensive, standards-based outcomes. They bring diverse potential and experience with them to the college classroom.

- Early Childhood Faculty are professional, ethical, qualified and committed to the mission of the college and the program. They have educational and experiential expertise. They are life-long learners.
- Community and government support and recognition are essential for a healthy, equitable system of early care and education. Families, teachers, college students, professors, citizens and elected officials must work together to create a better future for all children.

Fire Science Program - Fire Science Option

Degree Type

Associate in Science

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.

Students who are matriculated and place into developmental math and/or English are required to begin the course sequence in the first semester. Please see an [advisor](#) with questions.

Transfer Information

[MassTransfer & more](#)

Requirements

First Semester

Item #	Title	Credits
ENL101	English Composition I	3
	CHM106 or CHM109	4
FSC150	Principles of Emergency Services	3
FSC151	Fire Prevention	3
	Fire Science Elective	3

Second Semester

Item #	Title	Credits
	Mathematics/Quantitative Reasoning (or) Natural or Physical Science	3-4
FSC152	Fire Protection Systems	3
	ENL102 or COM103	3
	Fire Science Elective	3
	Fire Science Elective	3

Third Semester

Item #	Title	Credits
FSC153	Building Construction for the Fire Protection	3
FSC155	Fire Behavior and Combustion	3
	PSY101 or SOC106	3
	Fire Science Elective	3
	Elective	3

Fourth Semester

Item #	Title	Credits
FSC154	Principles of Fire and Emergency Service Safety and Survival	3
	Behavioral & Social Sciences	3
	Fire Science Elective	3
	Fire Science Elective	3
	Elective	3
	Total Credits	61-62

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.

Applicants for the Fire Science Program must be able to meet the physical demands and satisfy the behavioral capabilities as outlined in the Program's Technical Standards.

This [occupational profile](#) is provided by O*NET.

See also: [What can I do with this major?](#)

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.

Alcohol and Substance Abuse Counselor Assistant

Degree Type
Certificate

The Alcohol and Substance Abuse Counselor Assistant Certificate is designed to provide students with the skills necessary to assist 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.

Requirements

Courses

Item #	Title	Credits
PSY101	General Psychology	3
HUS101	Introduction to Human Services	3
ENL101	English Composition I	3
COM103	Human Communication	3
HUS104	Introduction to Alcohol & Substance Abuse	3
HUS206	Human Services Practicum	4

Please refer to the policy statement of [Criminal Offender Record Information \(CORI\)](#) and [Sex Offender Registry Information \(SORI\)](#).

Cape Cod Community College has been approved by the Bureau of Substance Abuse Services (BSAS) as 1 out of 13 approved state Addition Education Provider.

Total Credits

19

Career Outlook

This [occupational profile](#) is provided by O*NET.

Completion of a program is based on full time enrollment. Many of our students attend part time and may not complete within the one year timeline.

Program Outcomes

Upon successful completion of the Alcohol and Substance Abuse Counselor Assistant 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.

Community Support Skill Standards

The Human Services Certificate Program embraces the Community Support Skill Standards (CSSS), which are the core skills defined by direct support professionals. The classes in the certificate program promote the CSSS and the required service learning helps the student reflect on how these skills are utilized in the field. The ethical guidelines students will adhere to are established by the National Organization of Human Service Education.

The following CSSS competency areas are guidelines for learning in the Human Services Certificate program:

Competency Area 1: Participant Empowerment

The competent community support human service practitioner (CSHSP) enhances the ability of the participant to lead a self-determining life by providing the support and information necessary to build self-esteem, and assertiveness; and to make decisions.

Competency Area 2: Communication

The competent community support human service practitioner (CSHSP) enhances the ability of the participant to lead a self-determining life

by providing the support and information necessary to build self-esteem, and assertiveness; and to make decisions.

Competency Area 3: Assessment

The CSHSP should be knowledgeable about formal and informal assessment practices in order to respond to the needs, desires and interests of the participants.

Competency Area 4: Community and Service Networking

The CSHSP should be knowledgeable about the formal and informal supports available in his or her community and skilled in assisting the participant to identify and gain access to such supports.

Competency Area 5: Facilitation of Services

The CSHSP is knowledgeable about a range of participatory planning techniques and is skilled in implementing plans in a collaborative and expeditious manner.

Competency Area 6: Community Living Skills & Supports

The CSHSP has the ability to match specific supports and interventions to the unique needs of individual participants and recognizes the importance of friends, family and community relationships.

Competency Area 7: Education, Training & Self-Development

The CSHSP should be able to identify areas for self-improvement, pursue necessary educational/training resources, and share knowledge with others.

Competency Area 8: Advocacy

The CSHSP should be knowledgeable about the diverse challenges facing participants (e.g. human rights, legal, administrative and financial) and should be able to identify and use effective advocacy strategies to overcome such challenges.

Competency Area 9: Vocational, Educational & Career Support

The CSHSP should be knowledgeable about the career and education related concerns of the participant and should be able to mobilize the resources and support necessary to assist the participant to reach his or her goals.

Competency Area 10: Crisis Intervention

The CSHSP should be knowledgeable about crisis prevention, intervention and resolution techniques and should match such techniques to particular circumstances and individuals.

Competency Area 11: Organization Participation

The CSHSP is familiar with the mission and practices of the support organization and participates in the life of the organization.

Competency Area 12: Documentation

The CSHSP is aware of the requirements for documentation in his or her organization and is able to manage these requirements efficiently.

Alcohol and Substance Abuse Counselor II

Degree Type

Certificate

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.

The courses in the [Alcohol and Substance Abuse Counselor Assistant](#) certificate are prerequisites for the course work required in the Alcohol and Substance Abuse Counselor II certificate. The Alcohol and Substance Abuse Counselor Assistant certificate should be completed prior to taking courses required in Alcohol and Substance Counselor II certificate.

Requirements

Courses

Item #	Title	Credits
PSY208	Principles of Counseling & Crisis Intervention	3
PSY209	Group Dynamics in Human Services	3
HUS229	Introduction to Social Welfare	3
HUS230	Mental Health, Substance Abuse & Families	3
HUS231	Treatment Modalities in Human Services	3
HUS232	Introduction to Addictions Practicum	4
HUS208	Advanced Addictions Practicum	4

Please refer to the policy statement of [Criminal Offender Record Information \(CORI\)](#) and [Sex Offender Registry Information \(SORI\)](#).

Cape Cod Community College has been approved by the Bureau of Substance Abuse Services (BSAS) as 1 out of 13 approved state Addition Education Provider.

Total Credits **23**

Career Outlook

This [occupational profile](#) is provided by O*NET.

Completion of a program is based on full time enrollment. Many of our students attend part time and may not complete within the one year timeline.

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.

Community Support Skill Standards

The Human Services Certificate Program embraces the Community Support Skill Standards (CSSS), which are the core skills defined by direct support professionals. The classes in the certificate program promote the CSSS and the required service learning helps the student reflect on how these skills are utilized in the field. The ethical guidelines students will adhere to are established by the National Organization of Human Service Education.

The following CSSS competency areas are guidelines for learning in the Human Services Certificate program:

Competency Area 1: Participant Empowerment

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by providing the support and information necessary to build self-esteem, and assertiveness; and to make decisions.

Competency Area 2: Communication

The competent community support human service practitioner (CSHSP) enhances the ability of the participant to lead a self-determining life by providing the support and information necessary to build self-esteem, and assertiveness; and to make decisions.

Competency Area 3: Assessment

The CSHSP should be knowledgeable about formal and informal assessment practices in order to respond to the needs, desires and interests of the participants.

Competency Area 4: Community and Service Networking

The CSHSP should be knowledgeable about the formal and informal supports available in his or her community and skilled in assisting the participant to identify and gain access to such supports.

Competency Area 5: Facilitation of Services

The CSHSP is knowledgeable about a range of participatory planning techniques and is skilled in implementing plans in a collaborative and expeditious manner.

Competency Area 6: Community Living Skills & Supports

The CSHSP has the ability to match specific supports and interventions to the unique needs of individual participants and recognizes the importance of friends, family and community relationships.

Competency Area 7: Education, Training & Self-Development

The CSHSP should be able to identify areas for self-improvement, pursue necessary educational/training resources, and share knowledge with others.

Competency Area 8: Advocacy

The CSHSP should be knowledgeable about the diverse challenges facing participants (e.g. human rights, legal, administrative and financial) and should be able to identify and use effective advocacy strategies to overcome such challenges.

Competency Area 9: Vocational, Educational & Career Support

The CSHSP should be knowledgeable about the career and education related concerns of the participant and should be able to mobilize the resources and support necessary to assist the participant to reach his or her goals.

Competency Area 10: Crisis Intervention

The CSHSP should be knowledgeable about crisis prevention, intervention and resolution techniques and should match such techniques to particular circumstances and individuals.

Competency Area 11: Organization Participation

The CSHSP is familiar with the mission and practices of the support organization and participates in the life of the organization.

Competency Area 12: Documentation

The CSHSP is aware of the requirements for documentation in his or her organization and is able to manage these requirements efficiently.

Corrections

Degree Type

Certificate

The criminal justice system is comprised of three components: law enforcement, the courts, and corrections. The Corrections certificate prepares the student for entry-level positions in the correctional field. It also provides a foundation for the Associate in Science – Criminal Justice program. The certificate is designed to be completed in 3 semesters with the cooperative work experience in the final semester after the completion of all other required courses.

As a prerequisite for placement in a corrections setting, the student must pass a Criminal Offender Record Information (CORI) and Sex Offender Record Information (SORI) check. Please refer to the [CORI/SORI policy](#) statement.

Requirements

Courses

Item #	Title	Credits
ENL101	English Composition I	3
CRJ116	Introduction to Corrections	3
PSY101	General Psychology	3
HEA130	Standard First Aid and Basic Life Support (Cardiopulmonary Resuscitation)	1
HUS104	Introduction to Alcohol & Substance Abuse	3
CRJ117	Correctional Law	3
CRJ220	Crisis Intervention for Criminal Justice Professionals	3
CRJ262	Corrections Cooperative Work Experience	3

Completion of a program is based on full time enrollment. Many of our students attend part time and may not complete within the one year timeline.

Total Credits

22

Career Outlook

This [occupational profile](#) is provided by O*NET.

Program Outcomes

Upon completion of the Corrections certificate, students are able to:

- Identify, evaluate and utilize effective verbal, non-verbal and written communication for the correctional setting.
- Apply ethical principles in the correctional setting.
- Demonstrate an appreciation of the role of diversity as it applies to various populations in the correctional setting.
- Identify correctional problems and develop appropriate solutions.
- Identify and explain correctional legal issues.
- Recognize crisis situations in a correctional setting.
- Identify effective solutions to crisis situations in a correctional setting.
- Discuss the important role of counseling referral for inmate populations including those with addiction and mental health issues.
- Explain the interrelationship among the major components of the criminal justice system.

Technical Standards

In order to be eligible for and successfully complete the Corrections Certificate Program, certain physical and behavioral standards are required as part of the program and cooperative work experience. These technical standards have been developed using the U.S. Department of Labor's skills and abilities for those working in a corrections setting. Some cooperative work experience opportunities may have additional requirements beyond the technical standards listed here and requirements may vary by agency. Students must satisfy the program's technical standards and the individual agency requirements before a co-op assignment is approved. The Barnstable County Sheriff's Office provides details for the Physical Fitness Guidelines and Fitness for Duty.

The following technical standards are established in accordance with the Section 504 of the federal Rehabilitation Act of 1973 and the American with Disabilities Act. All students must be able to satisfy these standards with or without a reasonable accommodation. These include:

Communication

1. Communicate effectively in standard American English in both oral and written form.
2. Knowledge of the structure and content of the English language including the meaning and spelling of words, rules of composition, and grammar.
3. Understand oral directions, requests, voice pages and telephone messages stated in a normal tone.

Auditory Ability

1. Ability to hear sounds at a normal volume, including alarm sounds on technical and supportive equipment.
2. Listen and respond to distress sounds.
3. Auditory attention – the ability to focus on a single source of sound in the presence of other distracting sounds.

Visual Ability

1. Near Vision – The ability to see details at close range.
2. Far Vision – The ability to see details at a distance.

Skills

1. Active Listening – Giving full attention to what other people are saying, taking time to understand the points being made, asking questions as appropriate, and not interrupting at inappropriate times.
2. Social Perceptiveness – Being aware of others' reactions and understanding why they react as they do.
3. Task Management – Prioritize and manage tasks simultaneously.
4. Complex Problem Solving – Identifying complex problems and reviewing related information to develop and evaluate options and implement solutions.

Physical Abilities

1. Strength – The ability to exert muscle force repeatedly or continuously over time. This involves muscular endurance and resistance to muscle fatigue.
2. Stamina – The ability to exert yourself physically over long periods of time without getting winded or out of breath.
3. Gross Body Coordination – The ability to coordinate the movement of your arms, legs, and torso together when the whole body is in motion.
4. Manual Dexterity – The ability to quickly move your hands, your hands together with your arms, or your hands to grasp, manipulate, or assemble objects.

5. Performing General Physical Activities – The ability to perform physical activities that require considerable use of your arms and legs and moving your whole body. This includes, but is not limited to: standing, sitting, climbing, balancing, walking, running, pushing, pulling, twisting, stooping, handling of materials, and lifting.
6. Ability to effectively and safely use professional tools and equipment, including but not limited to: radio communications, body duress alarm, use of restraints, metal detectors, security wands, cell watch system, use of computers and security cameras.
7. Walk/stand for extended periods and distances over an 8-hour period.

Behavioral/Mental Performance

1. Function safely, effectively and calmly under stressful situations.
2. Exhibit social skills necessary to interact effectively in a correctional setting.
3. Display ethical attitudes and actions consistent with professional behavior in the classroom and correctional setting.
4. Maintain personal hygiene consistent with department dress code guidelines.
5. Remain free from alcohol and/or chemical impairment in classroom and correctional setting at all times.
6. Ability to defuse confrontational situations.
7. Ability to think critically, exercise good judgment and make decision under stressful circumstances.
8. Prioritize and manage tasks simultaneously.
9. Display the social skills empathy, politeness, tact and sensitivity to others in all settings.
10. Exhibit respect for cultural and ethnic differences of clients, peers and individuals in classroom and correctional setting.

Additional information pertaining to Corrections Officer requirements and physical fitness testing is available through the [Barnstable County Sheriff's Office](#).

Early Childhood Education – Infant & Toddler

Degree Type Certificate

The Early Childhood Education 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.

The Early Childhood Education – Infant & Toddler Certificate at Cape Cod Community College is accredited by the Commission on the Accreditation of Early Childhood Higher Education Programs of the *National Association for the Education of Young Children*.

The current accreditation term runs from July 1, 2021 through July 30, 2023.

Requirements

Courses

Item #	Title	Credits
ECE100	Introduction to Early Childhood Education	3
PSY101	General Psychology	3
PSY201	Child Psychology	3
ECE105	Introduction to Young Children with Special Needs (Birth–8 years)	3
ECE200	Teaching Infants and Toddlers	3
ECE230	Practicum in Early Childhood Education Preschool	6

Completion of a program is based on full time enrollment. Many of our students attend part time and may not complete within the one year timeline.

Please refer to the [CORI/SORI policy](#) statement.

"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*

Related Information

- [Early Childhood Education Program Outcomes](#)
- [Career Pathways Grant](#)

Total Credits **21**

Career Outlook

This [occupational profile](#) is provided by O*NET.

Technical Standards

The following information is being provided as required by the Federal Government Section 504 of the Rehabilitation Act of 1973 in response to the American with Disabilities Act.

In order to successfully complete the Early Childhood Education Program, certain cognitive, physical and behavioral capabilities, as specified in the U.S. Department of Labor Core Tasks and Massachusetts Department of Early Education and Care regulations, are required in course work and as part of your field experience. Early Childhood Education students must be able to satisfy these essential program standards with or without a reasonable accommodation in order to enroll into and successfully progress through the program. These include:

Communication

Early Childhood teachers must be able to communicate effectively in English with children, families, colleagues, and others in the community.

1. Speaking – Talking clearly to others to convey information effectively.
2. Oral Expression – The ability to orally communicate information and ideas clearly so others will understand.
3. Oral Comprehension – The ability to listen to and understand information and ideas presented through spoken words and sentences.
4. Writing – Communicating clearly and effectively in writing as appropriate for the needs of the audience.
5. Social Perceptiveness – Being aware of others' reactions and understanding why they react as they do.
6. Reading – Read and understand written materials.

Cognitive Performance

Early Childhood teachers must be able to think independently to solve problems in the classroom to support children's development and learning and keep children safe.

1. Problem Sensitivity – The ability to tell when something is wrong or is likely to go wrong.
2. Critical Thinking – Using logic and reasoning to identify the strengths and weaknesses of alternative solutions, conclusions or approaches to problems.
3. Judgment and Decision Making – Considering the relative costs and benefits of potential actions to choose the most appropriate one. Remaining calm and thinking logically and effectively under emergency circumstances

4. Complex Problem Solving – Identifying complex problems and reviewing related information to develop and evaluate options and implement solutions.
5. Speed of Closure – The ability to quickly make sense of, combine, and organize information into meaningful patterns.
6. Management of Time – Effectively manage time for self and others.

Behavioral Performance

Early Childhood teachers must be able to combine their knowledge, skills, and abilities to perform many tasks and meet state regulations for early childhood programs.

1. Establishing and Maintaining Interpersonal Relationships – Developing constructive and cooperative working relationships with others, and maintaining them over time.
2. Resolving Conflicts and Negotiating with Others – Handling complaints, settling disputes, and resolving grievances and conflicts, or otherwise negotiating with others.
3. Time Sharing – The ability to shift back and forth between two or more activities or sources of information (such as speech, sounds, touch, or other sources).
4. Evaluating Information to Determine Compliance with Standards – Using relevant information and individual judgment to determine whether events or processes comply with laws, regulations, or standards.
5. Documenting/Recording Information – Entering, transcribing, recording, storing, or maintaining information in written or electronic/magnetic form.

Physical

Early Childhood teachers must be able to keep children safe during inside and outside play and activities, including evacuation drills, as well as attend to their physical needs, including feeding, changing clothing and diapers, and providing medication.

1. Near Vision – The ability to see details at close range (within a few feet of the observer) and recognize differences between colors, shades, and brightness.
2. Far Vision – The ability to see details at a distance and recognize differences between colors, shades, and brightness.
3. Performing General Physical Activities – Performing physical activities that require considerable and extended use of your arms and legs and moving your whole body, such as standing for long periods of time, running, climbing, lifting, balancing, walking, stooping, and handling of materials; use muscles to lift, push, pull, or carry heavy objects; use one or two hands to grasp,

move, or assemble objects; and use fingers to grasp, move, or assemble very small objects.

4. Assisting and Caring for Others – Providing personal assistance, medical attention, emotional support, or other personal care to children.

Early Childhood Education – Preschool

Degree Type

Certificate

The Early Childhood Education 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.

The Early Childhood Education - Preschool certificate at Cape Cod Community College is accredited by the Commission on the Accreditation of Early Childhood Higher Education Programs of the [National Association for the Education of Young Children](#).

The current accreditation term runs from July 1, 2021 through July 30, 2023.

Requirements

Item #	Title	Credits
ECE100	Introduction to Early Childhood Education	3
PSY101	General Psychology	3
PSY201	Child Psychology	3
ECE105	Introduction to Young Children with Special Needs (Birth–8 years)	3
ECE201	Preschool Curriculum Planning	3
ECE202	Advanced Curriculum Development: Creative Experiences for Early Childhood Education	3
ECE230	Practicum in Early Childhood Education Preschool	6

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"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

Related Information

- [Early Childhood Education Program Outcomes](#)
- [Career Pathways Grant](#)

Total Credits

24

Career Outlook

This [occupational profile](#) is provided by O*NET.

Technical Standards

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Behavioral Performance

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3. Time Sharing – The ability to shift back and forth between two or more activities or sources of information (such as speech, sounds, touch, or other sources).
4. Evaluating Information to Determine Compliance with Standards – Using relevant information and individual judgment to determine whether events or processes comply with laws, regulations, or standards.

5. Documenting/Recording Information - Entering, transcribing, recording, storing, or maintaining information in written or electronic/magnetic form.

Physical

Early Childhood teachers must be able to keep children safe during inside and outside play and activities, including evacuation drills, as well as attend to their physical needs, including feeding, changing clothing and diapers, and providing medication.

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3. Performing General Physical Activities - Performing physical activities that require considerable and extended use of your arms and legs and moving your whole body, such as standing for long periods of time, running, climbing, lifting, balancing, walking, stooping, and handling of materials; use muscles to lift, push, pull, or carry heavy objects; use one or two hands to grasp, move, or assemble objects; and use fingers to grasp, move, or assemble very small objects.
4. Assisting and Caring for Others - Providing personal assistance, medical attention, emotional support, or other personal care to children.

Fire Officer Development

Degree Type Certificate

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.

Related Information:

Outcome

Requirements

Courses

Item #	Title	Credits
ENL101	English Composition I	3
FSC151	Fire Prevention	3
FSC152	Fire Protection Systems	3
FSC103	Fire Fighting Tactics and Strategy	3
FSC153	Building Construction for the Fire Protection	3
FSC110	Fire Code and Ordinances	3
FSC120	Introduction to Incident Management	3
FSC114	Fire Company Management	3

FSC151: Currently employed fire protection personnel should contact the coordinator of the Fire Science program to discuss alternate options to meeting this requirement.

Completion of a program is based on full time enrollment. Many of our students attend part time and may not complete within the one year timeline.

Total Credits

24

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.

This [occupational profile](#) is provided by O*NET.

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.

Homeland Security Certificate

Degree Type Certificate

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.

Requirements

Courses

Item #	Title	Credits
HSC101	Introduction to Homeland Security	3
HSC102	Maritime Security	3
HSC103	Management of Incidents	3
BIT104	Cybersecurity	3
CRJ135	Terrorism	3
Total Credits		15

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.

Human Services

Degree Type Certificate

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.

In addition to classroom instruction, this program has a minimum of at least one required practicum component, depending on the student's academic and occupational goals. All practicum classes require students to complete, during a semester, 100 hours of unpaid, field work in an approved Human Service site, with a partnering agency. By the end of the completion of the program students will have developed a transferrable portfolio of coursework and practicum experiences.

Requirements

Courses

Item #	Title	Credits
PSY101	General Psychology	3
HUS101	Introduction to Human Services	3
COM103	Human Communication	3
ENL101	English Composition I	3
PSY209	Group Dynamics in Human Services	3
PSY208	Principles of Counseling & Crisis Intervention	3
HUS206	Human Services Practicum	4

Completion of a program is based on full time enrollment. Many of our students attend part time and may not complete within the one year timeline.

Total Credits **22**

Career Outlook

This [occupational profile](#) is provided by O*NET.

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.
- Practice planning, implementation, and evaluation of intervention in classroom role-plays.
- 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.

Community Support Skill Standards

The Human Services Certificate Program embraces the Community Support Skill Standards (CSSS), which are the core skills defined by direct support professionals. The classes in the certificate program promote the CSSS and the required service learning helps the student reflect on how these skills are utilized in the field. The ethical guidelines students will adhere to are established by the National Organization of Human Service Education.

The following CSSS competency areas are guidelines for learning in the Human Services Certificate program:

Competency Area 1: Participant Empowerment

The competent community support human service practitioner (CSHSP) enhances the ability of the participant to lead a self-determining life by providing the support and information necessary to build self-esteem, and assertiveness; and to make decisions.

Competency Area 2: Communication

The competent community support human service practitioner (CSHSP) enhances the ability of the participant to lead a self-determining life by providing the support and information necessary to build self-esteem, and assertiveness; and to make decisions.

Competency Area 3: Assessment

The CSHSP should be knowledgeable about formal and informal assessment practices in order to respond to the needs, desires and interests of the participants.

Competency Area 4: Community and Service Networking

The CSHSP should be knowledgeable about the formal and informal supports available in his or her community and skilled in assisting the participant to identify and gain access to such supports.

Competency Area 5: Facilitation of Services

The CSHSP is knowledgeable about a range of participatory planning techniques and is skilled in implementing plans in a collaborative and expeditious manner.

Competency Area 6: Community Living Skills & Supports

The CSHSP has the ability to match specific supports and interventions to the unique needs of individual participants and recognizes the importance of friends, family and community relationships.

Competency Area 7: Education, Training & Self-Development

The CSHSP should be able to identify areas for

self-improvement, pursue necessary educational/training resources, and share knowledge with others.

Competency Area 8: Advocacy

The CSHSP should be knowledgeable about the diverse challenges facing participants (e.g. human rights, legal, administrative and financial) and should be able to identify and use effective advocacy strategies to overcome such challenges.

Competency Area 9: Vocational, Educational & Career Support

The CSHSP should be knowledgeable about the career and education related concerns of the participant and should be able to mobilize the resources and support necessary to assist the participant to reach his or her goals.

Competency Area 10: Crisis Intervention

The CSHSP should be knowledgeable about crisis prevention, intervention and resolution techniques and should match such techniques to particular circumstances and individuals.

Competency Area 11: Organization Participation

The CSHSP is familiar with the mission and practices of the support organization and participates in the life of the organization.

Competency Area 12: Documentation

The CSHSP is aware of the requirements for documentation in his or her organization and is able to manage these requirements efficiently.

Law Enforcement

Degree Type

Certificate

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.

Requirements

Courses

Item #	Title	Credits
ENL101	English Composition I	3
COM103	Human Communication	3
SOC106	Principles of Sociology	3
PSY101	General Psychology	3
CRJ100	Introduction to Criminal Justice	3
CRJ125	Contemporary Policing	3
CRJ103	Criminal Law	3
CRJ105	Criminology, Theory and Practice	3
CRJ130	Criminal Evidence	3

Completion of a program is based on full time enrollment. Many of our students attend part time and may not complete within the one year timeline.

Total Credits **27**

Career Outlook

This [occupational profile](#) is provided by O*NET.

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 Degree Type Certificate

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.

More Information: [Legal Studies Overview](#)

Requirements

Courses

Item #	Title	Credits
ENL101	English Composition I	3
LGS130	Introduction to Substantive Law	3
GIT102	Computer Keyboarding	1
LGS132	Law Office Management	1
GIT110	Computer Applications	3
LGS135	Civil Litigation	3
LGS133	Legal Research and Writing	3
LGS134	Real Estate, Mortgages and Landlord-Tenant Law	3
	Paralegal Elective	3
	Paralegal Elective	3
	Paralegal Elective	3

The Paralegal Certificate program is designed for part-time study and takes approximately two years to complete. The professional courses are offered in the evenings.

Review the prerequisites prior to application. An application for the Internship must be submitted to the coordinator on or before the first day of registration for the semester in which the student wishes to register for the Internship.

Total Credits **28-29**

Career Outlook

This [occupational profile](#) is provided by O*NET.

Program Outcomes

Upon completion of the Paralegal Certificate, students are able to:

- Read, write, recognize, research, analyze, and discuss legal issues, cases, laws, and rules
- Recognize diversity issues in order to interact with others appropriately and research effectively
- Use online database information, conventional libraries, and other relevant resources
- Establish and maintain cooperative working relationships with supervisors, co-workers, clients, and others
- Maintain composure; work well independently and under stress
- Comprehend and communicate information and ideas, in writing and orally

- Arrange things and actions based on specific patterns or rules
- Apply general laws and rules to specific circumstances to provide clear answers
- Analyze ethical issues and apply ethical standards in assignments for a variety of legal questions
- Assume positions in law offices, municipal agencies, private industry and other workplaces
- Provide agency or law office services within the ethical standards of the legal profession
- Transfer to Associate's degree programs

Courses

Accounting

ACC100 : Survey of Accounting

Students will be exposed to an overview of accounting and its role in business and society with a focus on the accounting equation, chart of accounts, transaction analysis, financial statement preparation and analysis, business structures, accrual basis of accounting, and internal controls.

Credits 3

Prerequisites

MAT020 or [MAT025](#) and [ENL108](#) or satisfactory basic skills assessment scores

Semester Offered

Fall
Spring

ACC103 : QuickBooks Basics

Students learn the basics of QuickBooks desktop software to get a new user started with setting up a new company file, setting up vendors, customers, employees, contractors, sales and service items, recording everyday transactions, and running financial reports.

Credits 3

Prerequisites

[ACC100](#), [GIT110](#)

Semester Offered

Spring

ACC115 : Payroll Accounting

Payroll Accounting provides an understanding of the laws that affect a company's payroll structure and practical application skills in maintaining payroll records. Topics covered include: payroll tax laws, payroll tax forms, payroll and personnel records, computing wages and salaries, taxes affecting employees and employers, analyzing and journalizing payroll transactions and completing various federal and state forms. Students prepare business payroll in both a manual and computer format.

Credits 3

Prerequisite Courses

[ACC100: Survey of Accounting](#)

Semester Offered

Spring

ACC201 : Financial Accounting

Principles of Financial Accounting is the study of the generation and interpretation of accounting information as a basis for financial statement analysis and management decision-making. Topics include: the accounting cycle, recording transactions, adjusting and closing accounts, preparing financial statements, inventory valuation, depreciation methods, acquisition and 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 transfer student.

Credits 3

Prerequisites

[GIT110](#), [ACC100](#)

Semester Offered

Fall
Spring
Summer

ACC202 : Managerial Accounting

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 is examined using master budgets and planning, flexible budgets with standard costs and variances, capital budgets and managerial decisions.

Credits 3

Prerequisites

[ACC201](#) or [ACC111](#) and [ACC112](#)

Semester Offered

Fall
Spring
Summer

ACC210 : Personal Income Taxes

Students learn the tax principles that determine what an individual must report to federal and state governments. Students learn to apply the method and principles of tax law using computerized tax forms.

Credits 3

Prerequisites

[ENL108](#) or satisfactory basic skills assessment score

Semester Offered

Fall

ACC261 : Accounting Cooperative Work Experience

The student works in an accounting environment for 150 hours to gain practical training as a capstone experience. This course may be repeated once for credit. Limited to students enrolled in an accounting certificate or an A.S. Business degree program. Students should have already completed at least 9 credits of accounting courses.

Credits 3**Prerequisites**

Requires completion of at least 12 credit hours of accounting courses and permission of Business Administration program coordinator.

Semester Offered

Fall
Spring
Summer

ACC263 : VITA Practicum

This Volunteer Income Tax Assistance (VITA) practicum provides an opportunity for students to perform a community service in cooperation with the Internal Revenue Service. The course trains students to prepare tax returns for low to mid income taxpayers in the community.

Credits 3**Prerequisites**

C- or higher in [ACC210](#)

Semester Offered

Spring

American Sign Language

ASL101 : American Sign Language I

An introductory-level course in American Sign Language intended to give an overview of both the language and the culture of the Deaf community. The course focuses on everyday interaction, frequently used signs, basic rules of grammar, and cultural features within the Deaf community.

Credits 3**Prerequisites**

Satisfactory basic skills assessment score [ENL108](#) or co-requisite

Semester Offered

Fall
Spring
Summer

Notes

Satisfies a Humanities & Fine Arts general education requirement.

ASL102 : American Sign Language II

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.

Credits 3**Prerequisite Courses**

[ASL101: American Sign Language I](#)

Semester Offered

Fall
Spring

Notes

Satisfies a Humanities & Fine Arts general education requirement.

Anthropology

ANT107 : Introduction to Anthropology

This is an introduction to the principles and procedures of anthropology. The course is divided into two main areas: Physical Anthropology, which covers the physical nature of humans and the evolution of this nature; and Cultural Anthropology, which covers the cultural nature of humans including the origin and development of social institutions.

Credits 3**Prerequisites**

None

Semester Offered

Fall
Spring

Notes

Satisfies a Behavioral and Social Sciences general education requirement.

ANT108 : World Archaeology

This introduction to world prehistory traces our shared human past from the emergence of human material culture to the rise and establishment of ancient states and empires. Special attention devoted to the study of the early civilizations of Western Asia, Europe, China, India, Africa, and the Americas provides for the understanding of how and why the various continents developed their unique civilizations. Archaeological discoveries provide the basis and background for this study.

Credits 3**Prerequisites**

None

Semester Offered

Fall

ANT211 : Comparative Cultures

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.

Credits 3**Prerequisites**

SOC106 or ANT107

Semester Offered

Varies

Notes

This course satisfies the Behavioral or Social Science General Education requirement.

ANT215 : People & Cultures of Middle East

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.

Credits 3**Prerequisites**

ANT107 or SOC106

Semester Offered

Fall

Spring

Notes

Satisfies a Behavioral and Social Sciences general education requirement.

Arabic

ARB100 : Conversational Arabic

This basic conversational Arabic course is designed to introduce the non-native speaker of Arabic to the basic skills necessary to developing a working knowledge of spoken Arabic. The emphasis is on listening, speaking, and understanding spoken Arabic.

Credits 3**Prerequisites**

satisfactory basic skills assessment score ENL108 or co-requisite

Semester Offered

Fall

Spring

ARB122 : Immersion Study in Arabic Language and Civilization

Students study spoken Arabic language and civilization in an Arabic speaking country. Traditional class work is supplemented by field trips and cultural activities.

Credits 3**Prerequisites**

None

Semester Offered

January Intersession

Art

ART100 : Drawing I

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.

Credits 3**Prerequisites**

ENL025 or satisfactory basic skills assessment score

Semester Offered

Fall

Spring

Summer

Notes

Satisfies a Humanities and Fine Arts general education requirement.

ART101 : Design I

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.

Credits 3**Prerequisites**

ENL025 or satisfactory basic skills assessment score

Semester Offered

Fall

Spring

Notes

Satisfies a Humanities and Fine Arts general education requirement.

ART103 : Painting I

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 painting are evaluated.

Credits 3

Prerequisite Courses

[ART100: Drawing I](#)

Semester Offered

Fall

Spring

Notes

Satisfies a Humanities and Fine Arts general education requirement.

ART125 : History of Art: Stone Age to Gothic

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 ideas guiding artistic creations, general stylistic trends, important methods, materials, and techniques used.

Credits 3

Prerequisites

[ENL025](#) or satisfactory basic skills assessment score

Semester Offered

Fall

Spring

Summer

Notes

Satisfies a Humanities and Fine Arts general education requirement.

ART130 : You Can Design!

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 will 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 will help nurture confidence in the use of visual language and provide a basis for exploring all forms of visual expression, including drawing, painting, life drawing, sculpture, design, graphic art, website design and printmaking.

Credits 1

Prerequisites

[ENL025](#) or satisfactory basic skills assessment score

Semester Offered

Fall

Spring

ART134 : Art History: Renaissance to Modern

Students explore the art of the western world from the Renaissance to the Modern eras. Illustrated lectures cover general aesthetic trends, the life and work of key artists, ideas guiding their creations, the vocabulary of art, as well as important methods, materials, and techniques the artists have employed. Significant artistic creations ranging in character from the personal, to the political, and religious are examined. Students are required to make an independent visit to a museum.

Credits 3

Prerequisites

[ENL025](#) or satisfactory basic skills assessment score

Semester Offered

Fall

Spring

Notes

Satisfies the Humanities & Fine Arts General Education requirement.

ART135 : Fashion, Textile and Fiber Arts

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.

Credits 3

Prerequisites

None

Semester Offered

Fall/even

ART136 : Three-Dimensional Design

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.

Credits 3

Prerequisites

[ENL025](#) or satisfactory basic skills assessment score

Semester Offered

Spring/even

Notes

Satisfies a Humanities and Fine Arts general education requirement. May be repeated once for credit.

ART137 : History of Graphic Design

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.

Credits 3

Prerequisites

ENL025 or satisfactory basic skills assessment score

Semester Offered

Fall

ART139 : Digital Photography

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.

Credits 3

Prerequisites

ENL025 or satisfactory basic skills assessment score. ART214 is recommended

Semester Offered

Fall

ART140 : Introduction to Silkscreen Printing

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.

Credits 3

Prerequisites

ENL025 or satisfactory basic skills assessment score

Semester Offered

Spring/odd

ART171 : Computer Graphics I (Adobe Photoshop, Illustrator, InDesign)

This course is designed for Graphic Design and Visual Art Students. Students learn Adobe Photoshop, Adobe Illustrator, and Adobe InDesign. This course introduces fundamental concepts and terminology for creating and editing electronic images. Students utilize these applications in graphic design, publication design, and preparation of documents for the web. Students use complex software applications independently and in groups.

Credits 3

Prerequisites

ENL108 or ESL201 or satisfactory basic skills assessment score

Semester Offered

Fall

Spring.

ART200 : Drawing II

Students explore advanced drawing concepts and techniques including free-hand perspective and rendering techniques as they apply to the representation of natural and man-made forms. Emphasis is placed on drawing the human figure including the nude. Individual style and self-expression are developed.

Credits 3

Prerequisite Courses

ART100: Drawing I

Semester Offered

Spring

ART201 : Design II

An investigation of a variety of fundamental visual forms and concepts that can be used to delineate and describe both two and three-dimensional structures. The descriptive expressive uses of color will be utilized in conjunction with structural systems that will explore different spatial concerns.

Credits 3

Prerequisite Courses

ART101: Design I

Semester Offered

Spring/even

ART207 : Graphic Design I

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.

Credits 3

Prerequisites

ART170 or [ART171](#)

Semester Offered

Fall/odd

Notes

Satisfies a Humanities and Fine Arts general education requirement.

ART208 : Graphic Design II

This course is a continuation of [ART207](#)

, which introduces typography, composition, and layout, development of graphic concepts, and problem solving and creative thinking.

Credits 3

Prerequisite Courses

[ART207: Graphic Design I](#)

Semester Offered

Spring/even

ART209 : Printmaking Techniques

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 plate preparation and printing.

Credits 3

Prerequisites

[ENL025](#) or satisfactory basic skills assessment score

Semester Offered

Fall/odd

Notes

Satisfies a Humanities and Fine Arts general education requirement.

ART216 : Life Drawing

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 through observation of clothed and/or unclothed live models.

Credits 3

Prerequisite Courses

[ART100: Drawing I](#)

Semester Offered

Fall/odd

ART218 : Typography

This course is designed to introduce students to the basics of typography. Students demonstrate how to utilize type to solve visual problems in graphic design and visual communication. Students are taught typographic structures and terminology for visual problem solving. This course uses both computer and hands-on methods to address the language of type and its effective usage. By studying the language of type through its history and by its application, students gain strong working knowledge of this essential element in graphic design.

Credits 3

Prerequisites

ART170 or [ART171](#)

Semester Offered

Fall/even

Notes

Satisfies a Humanities & Fine Arts general education requirement.

ART219 : Portfolio Preparation for Artists and Graphic Designers

This course covers preparing, critiquing, and presenting a portfolio utilizing existing, personal art work. The portfolio of work will be used primarily to support the students transfer to art school. Other topics include writing a resume and cover letter and creating an artist's statement. Students are expected to have finished artwork for a portfolio.

Credits 1

Prerequisite Courses

[ART100: Drawing I](#)

[ART101: Design I](#)

Semester Offered

Spring

ART226 : Printmaking II

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 print. Students explore collagraph, woodcut, solar etching, and polymer lithography. Students become proficient in all aspects of plate preparation and printing using professional printmaking inks.

Credits 3

Prerequisite Courses

[ART209: Printmaking Techniques](#)

Semester Offered

Spring/even

Notes

May be repeated once for credit.

ART229 : Painting II

Painting II provides an in depth study of painting including color theory, and composition with an emphasis on developing self-expression. The course will continue exploring a variety of genres from observational realism to abstraction. Critical analysis of contemporary artistic movements will help students to become familiar with a variety of styles, find their own personal "aesthetic language", and develop their ability to work with acrylic media.

Credits 3**Prerequisite Courses**[ART103: Painting I](#)**Semester Offered**

Fall/even

Notes

May be repeated once for credit.

ART231 : Computer Graphics II (Adobe Photoshop, Illustrator, InDesign)

Students explore complex typographic design problems requiring the student to visually balance a variety of information as well as develop an increased sensitivity to typographic nuance and subtlety. Students learn advanced Adobe Photoshop, Adobe Illustrator, Adobe InDesign and typographic skills to include theoretical and practical applications. Students gain an in depth understanding of the function of typography as a visual element within the larger context of graphic communication.

Credits 3**Prerequisite Courses**[ART218: Typography](#)**Semester Offered**

Spring/even

ART256 : Internship in Graphic Design

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 is based on student academic and career goals. The student works in a graphic design business for 150 hours.

Credits 3**Prerequisites**

[ART171](#),[ART207](#),[ART218](#),[ART231](#) and permission of the Visual Arts Coordinator

Semester Offered

Varies

Notes

May be repeated once for credit.

ART257 : Art Gallery & Exhibition Management

This course offers an introduction to galleries and their management with both theoretical and practical experience. Students learn about public and private galleries and the acquisition, care, study, and diffusion of objects. It is designed as a hands-on experience working exclusively in CCCC Higgins Art Gallery. The course introduces the student to careers in art practice, gallery and exhibition management. The student gains theoretical and practical experience in the field of display methods, design and management. Class includes 15 hours of lecture and 60 hours of gallery work. Work scheduled hours appropriate to the demands of the gallery setting.

Credits 3**Prerequisites**

One 3-credit Art course

Semester Offered

Varies

ART261 : Visual Art Cooperative Work Experience

Students work in an approved organizational setting 50 hours per credit up to 150 hours to receive practical training and experience related to the student's academic program.

Credits 1-3**Prerequisites**[ART100](#) and 6 more hours in Visual Arts

Concentration courses and approval of the department

Semester Offered

Fall

Spring

Summer

Notes

Repeatable up to 6 credits

Astronomy

AST101 : Fundamentals of Astronomy

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)

Credits 4

Prerequisites

MAT030MAT035,ENL108orESL201or satisfactory basic skills assessment scores

Semester Offered

Fall
Spring
Summer

Notes

Satisfies a Natural or Physical Science general education requirement.

AST102 : Astronomy II

The second of a two-term sequence in introductory astronomy, this course provides an active learning approach to the principles of astronomy, astrophysics and the nature of scientific inquiry. Students explore the properties, origins and fate of stars, galaxies and the universe. (3 class hours/2 laboratory hours).

Credits 4

Prerequisites

A grade of C or higher inAST101

Semester Offered

Fall
Spring

Notes

Satisfies a Natural or Physical Science general education requirement.

AST201 : Current Topics in Astronomy

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 will be drawn from highly credible sources on the Internet (for example NASA.GOV) and current astronomical publications.

Credits 3

Prerequisites

AST101or PHY101orPHY211

Semester Offered

Varies

Aviation Maintenance Technology

AMT100 : Introduction to Aviation and Aerospace

This course provides a broad introduction to the history of aviation and aerospace as well as aircraft types by considering a number of topics related to the role, function and operation of aircraft. The course introduces the fundamental science of flight (aerodynamics), propulsion and structures. Emerging technologies and contemporary issues in aviation and aerospace are also addressed to facilitate an understanding of emerging challenges in 21st century. The course will provide essential knowledge relating to all technical aspects of aviation, including but not limited to aircraft operation, structures, systems, powerplants and maintenance, repair & overhaul (MRO).

Credits 3

Prerequisites

ENL108orESL201or satisfactory basic skills assessment score

Semester Offered

Fall
Spring
Summer

AMT110 : Aviation Maintenance Technology (AMT): General Module 1

AMT General Module 1 for the Federal Aviation Administration (FAA) is required by Title 14 of the Code of Federal Regulations (14 CFR) Advisory Circular Part 147-3B. AMT General Module 1 introduces students to the applications of mathematics for aviation, basic physics for aviation, aircraft drawings, weight and balance, fluid lines and fittings, materials and processes, basic measuring and inspection concepts and techniques, and non-destructive testing principles.

Credits 6

Prerequisites

ENL108or satisfactory basic skills assessment score

Semester Offered

Fall or Spring

AMT120 : Aviation Maintenance Technology (AMT): General Module 2

AMT General Module 2 for the Federal Aviation Administration (FAA) is required by Title 14 of the Code of Federal Regulations (14 CFR) Advisory Circular Part 147-3B. AMT General Module 2 introduces students to the applications of basic electricity and electronics, aircraft instrumentation systems, sheet metal structures, corrosion control and basic welding skills.

Credits 6

Prerequisites

ENL108 or satisfactory basic skills assessment score

Semester Offered

Fall or Spring

AMT210 : Aviation Maintenance Technology: Airframe Module 1

AMT Airframe Module 1 for the Federal Aviation Administration (FAA) is required by Title 14 of the Code of Federal Regulations (14 CFR) Advisory Circular Part 147-3B. AMT Airframe Module 1 introduces students to the applications of aircraft pneumatic and environmental systems, aviation human factors, mechanic privileges and limitations, publications, forms, records and regulations, ground operations and safety, aircraft fuel systems, cleaning and inspections, shop safety, wood structures, aircraft coverings and finishes and composite technology.

Credits 8

Prerequisites

Grade of C or higher in AMT110 and AMT120

Semester Offered

Summer

AMT220 : Aviation Maintenance Technology: Airframe Module 2

AMT Airframe Module 2 for the Federal Aviation Administration (FAA) is required by Title 14 of the Code of Federal Regulations (14 CFR) Advisory Circular Part 147-3B. AMT Airframe Module 2 introduces students to the applications of communication and navigation systems, basic avionics, flight controls and systems, rotocraft and UAS fundamentals, landing gear, ice and rain control systems, fire protection systems, position and warning systems, water and waste systems, and aircraft and engine electrical systems.

Credits 10

Prerequisites

Grade of C or higher in AMT110 and AMT120

Semester Offered

Fall or Spring

AMT230 : Aviation Maintenance Technology: Powerplant Module 1

AMT Powerplant Module 1 for the Federal Aviation Administration (FAA) is required by Title 14 of the Code of Federal Regulations (14 CFR) Advisory Circular Part 147-3B. AMT Powerplant Module 1 introduces students to the applications of reciprocating engines, engine fuel systems, diesel engines, propellers and propeller systems, ignition and starting systems, fuel metering systems, and engine lubrication systems.

Credits 10

Prerequisites

Grade of C or higher in AMT110 and AMT120

Semester Offered

Fall or Spring

AMT240 : Aviation Maintenance Technology: Powerplant Module 2

AMT Powerplant Module 2 for the Federal Aviation Administration (FAA) is required by Title 14 of the Code of Federal Regulations (14 CFR) Advisory Circular Part 147-3B. AMT Powerplant Module 2 introduces students to the applications of turbine engines, engine instruments, induction and airflow systems, engine cooling systems, unducted fans, auxiliary power units, exhaust systems and thrust reversers, and engine inspections.

Credits 8

Prerequisites

Grade of C or higher in AMT110 and AMT120

Semester Offered

Summer

Basic IT

BIT103 : Medical Terminology

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.

Credits 3

Prerequisites

ENL108 or ESL201 or satisfactory basic assessment skills

Semester Offered

Fall

Spring

Summer

Notes

Satisfies a General Education elective.

BIT104 : Cybersecurity

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.

Credits 3**Prerequisites**

HSC101orBIT187

Semester Offered

Spring

Summer

BIT112 : Information Technology Foundations

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.

Credits 3**Prerequisites**ENL108orESL201or satisfactory basic skills
assessment score**Semester Offered**

Varies

BIT113 : Microcomputer Hardware

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 Comp TIA A+ certification exam.

Credits 3**Prerequisites**ENL108orESL201or satisfactory basic skills
assessment score**Semester Offered**

Fall

Spring

BIT115 : IT: Windows Desktop Operating Systems

Students develop competency installing, configuring, upgrading, and supporting microcomputer-based operating systems. Students learn about memory management and system optimization techniques. System support software utilities are reviewed. Students study evaluation and selection methodologies for operating systems. Command line usage, file and disk management, system performance, device drivers, security, network support, hardware peripheral support and help topics are included. Communication and professionalism are stressed. This course covers material for CompTIA A+ 220-602 exam.

Credits 3**Prerequisites**ENL108orESL201or satisfactory basic skills
assessment score**Semester Offered**

Fall

Spring

BIT116 : IT: Linux

This course provides students with hands on working knowledge of Linux using both the graphical interface and command line, and covering the major Linux distribution families with an emphasis on Kali Linux. Topics include various tools and techniques commonly used by end users and Linux system administrators to achieve their day-to-day work in a Linux environment. This course is designed for computer users who have limited or no previous exposure to Linux.

Credits 3**Prerequisites**

ENL108 or ESL201 or satisfactory basic skills assessment score

Semester Offered

Varies

BIT187 : Introduction to Networks (Cisco 1)

Introduces the architecture, structure, functions, components, and models of the Internet and other computer networks. The principles and structure of IP addressing, and the fundamentals of Ethernet concepts, media, and operations are introduced to provide a foundation for the curriculum. Students will be able to build simple local area networks (LAN), perform basic configurations for routers and switches, and implement IP addressing schemes. This is the first of 3 courses preparing students for CCNA certification.

Credits 3**Prerequisites**

BIT115 or by permission of instructor

Semester Offered

Fall

Spring

BIT202 : Standard Office Procedures

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.

Credits 3**Prerequisite Courses**

[GIT110: Computer Applications](#)

Semester Offered

Spring

BIT203 : Medical Office Procedures

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.

Credits 3**Prerequisite Courses**

[GIT110: Computer Applications](#)

[BIT103: Medical Terminology](#)

Semester Offered

Spring

BIT207 : Medical Coding & Billing

This course is designed to teach the student the current medical coding practices used for third-party billing. ICD-10-CM and CPT and HCPCS II 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.

Credits 3**Prerequisite Courses**

[BIT103: Medical Terminology](#)

Semester Offered

Fall

Spring

BIT208 : Advanced Medical Coding & Billing

Students continue their mastery of diagnostic and procedural coding and billing through complex case studies and use of authentic medical records. Students are introduced to International Classification of Diseases ICD-10 CM and other diagnosis coding systems such as DSM-V. Code auditing for regulatory compliance is emphasized.

Credits 3**Prerequisite Courses**

[BIT207: Medical Coding & Billing](#)

Semester Offered

Varies

BIT209 : Pharmacology for Medical Coding

This course covers pharmacology basics as they relate to the duties of a medical coder. This course includes the study of drugs and their respective actions, dosage and administration, and the adverse effects associated with drugs. This course prepares students for the pharmacology content on the Certified Professional Coder Exam (CPC).

Credits 1**Prerequisite Courses**

[BIT207: Medical Coding & Billing](#)

Semester Offered

Fall

Spring

BIT221 : Web Site Development Practicum

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.

Credits 3**Prerequisites**

GIT183, GIT184, and BIT283

Semester Offered

Fall

Spring

BIT237 : Windows Server Administration

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 MCSA/MCSE Certification Exams.

Credits 3**Prerequisites**

BIT187.

Semester Offered

Fall

Notes

Open for credit to student who have completed BIT223; not open for credit to students who have completed BIT223 and BIT234

BIT240 : Security+

This course covers fundamental principles for securing a network and managing risks. Using a hands-on approach, students learn access control, identity management and cryptography, as well as a selection of appropriate mitigation and deterrent techniques to address network attacks and vulnerabilities. This course prepares students to take the CompTIA Security+ certification exam. Prior to starting this course, students are required to sign an agreement stating all knowledge learned in this course will not be used for illegal or malicious purposes.

Credits 3**Prerequisites**

BIT187 or Network+ Certification (Certifications must have been earned within the past 5 years)

Semester Offered

Spring

BIT241 : IT: Ethical Hacking

This course includes all aspects of ethical hacking and information systems security auditing programs. The course focuses on the latest security threats, advanced attack vectors, and supplements all learning information with practical hands on demonstrations of the latest hacking techniques, methodologies, tools, tricks and security measures. Students scan, test, hack and secure their own systems. Topics include Intrusion Detection, Policy Creation, Social Engineering, DDOS Attacks, Buffer Overflow and Virus Creation. This course helps prepare students to take the CEH certification. Prior to starting the course, students are required to sign an agreement stating all knowledge learned in this course will not be used for illegal or malicious purposes.

Credits 3**Prerequisites**

BIT240 or a	Security+	BIT116 or a Linux Certification
	Certification;	(Certifications must
	co-requisite:	have been earned
		within the past 5
		years)

Semester Offered

Spring

BIT242 : IT: Advanced Ethical Hacking I

This is the first in a series of two courses that teach students to comprehend the creation of sophisticated attacks, discover vulnerabilities and formulate exploits for fully patched, fully hardened systems (also known as penetration testing). Students learn to discover Oday exploits. Students discover a working exploit for Microsoft Windows and Linux vulnerabilities as well as begin to reverse engineer a Windows Binary. This course begins to prepare students to take the CEPT (Certified Expert Penetration Tester) and the ECSA (EC-Council Certified Security Analyst certification). To fully prepare for these certifications, both BIT242 and BIT243 must be completed successfully. Students are required to sign an agreement stating all knowledge learned in this course will not be used for illegal or malicious purposes.

Credits 3**Prerequisites**

BIT241 or a Certified Ethical Hacker Certification. Certifications must have been earned within the past 5 years.

Semester Offered

Fall

BIT243 : IT: Advanced Ethical Hacking II

This is the second in a series of two courses that teach students how to create sophisticated attacks, and exploit fully patched, fully hardened systems (also known as penetration testing). Students create Oday exploits. Students create a working exploit for Microsoft Windows and Linux vulnerabilities as well as reverse engineer a Windows Binary. This course continues to prepare students to take the CEPT (Certified Expert Penetration Tester) and the ECSA (EC-Council Certified Security Analyst certification). To fully prepare for these certifications, both [BIT242](#) and [BIT243](#) must be successfully completed. Prior to starting this course, students are required to sign an agreement stating all knowledge learned in this course will not be used for illegal or malicious purposes.

Credits 3

Prerequisites

[BIT242](#) or a CEH Certified Ethical Hacker Certification. Certifications must have been earned within the past 5 years.

Semester Offered

Fall

BIT245 : IT Security: Penetration Testing

This course provides students with hands-on experience and knowledge of the most prominent attack vectors. Students mimic the skills of an advanced hacker in order to find and protect network and system flaws. This course completes the preparation for students to take the CEPT (Certified Expert Penetration Tester) certification exam. Prior to starting the course, students are required to sign an agreement stating all knowledge learned in this course will not be used for illegal or malicious purposes.

Credits 3

Prerequisites

[BIT244](#) or a CREA Certified Reverse Engineering Analyst Certification. Certifications must have been earned within the past 5 years.

Semester Offered

Spring

BIT248 : Switching, Routing & Wireless Essentials (Cisco 2)

This is the second course in the Cisco Certified Network Associate (CCNA) curriculum series. It focuses on switching technologies and router operations that support small-to-medium business networks and includes wireless local area networks (WLAN) and security concepts. In addition to learning key switching and routing concepts, students will be able to perform basic network configuration and troubleshooting, identify and mitigate LAN security threats, and configure and secure a basic WLAN.

Credits 4

Prerequisite Courses

[BIT187: Introduction to Networks \(Cisco 1\)](#)

Semester Offered

Fall

Spring

BIT249 : Enterprise Networking, Security, and Automation (Cisco 3)

This third course in the Cisco Certified Network Associate (CCNA) curriculum describes architectures related to designing, securing, operating, and troubleshooting enterprise networks. Wide area network (WAN) and quality of service (QoS) used for secure remote access, software-defined networking, virtualization, and automation concepts are included. Students configure and troubleshoot networks, identify and protect against cybersecurity threats, use network management tools and learn software-defined networking, including controller-based architectures and application programming interfaces (APIs) for network automation.

Credits 4

Prerequisite Courses

[BIT248: Switching, Routing & Wireless Essentials \(Cisco 2\)](#)

Semester Offered

Fall

Spring

BIT250 : Database Design and Development

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.

Credits 3

Prerequisites

[GIT150](#)

Semester Offered

Fall

BIT251 : SQL & SQL Server for Developers

Students learn the essential Structured Query Language (SQL) skills necessary to become a Database Administrator (DBA.) SQL Server and Management Studio are used to manipulate data, implement database designs, manage database security, and use database features including scripts, functions, and transactions.

Credits 3**Prerequisites**

GIT150

Semester Offered

Spring

BIT252 : Enterprise Routing Protocols

This course covers layer 3 technologies, including IPv4/IPv6 routing, EIGRP, OSPF, and BGP. Students gain skills to configure and troubleshoot both interior gateway link state and distance vector routing protocols, and exterior gateway path vector routing protocols. Key concepts required to configure, troubleshoot and make routers secure through proper routing configurations are introduced. This material satisfies a portion of the implementing Cisco Enterprise Advanced Routing and Services (ENARSI) Cisco Certification Exam.

Credits 4**Prerequisite Courses**

BIT249: Enterprise Networking, Security, and Automation (Cisco 3)

Semester Offered

Fall

Spring

BIT254 : Computer Forensics

This course focuses on the use of the most popular forensics tools and provides specific guidance on dealing with civil and criminal matters relating to the law and technology. Students learn how to manage a digital forensics operation in today's business environment, including data investigation, recovery, and analysis. Students install, administer, maintain, and troubleshoot using various forensic tools.

Credits 3**Prerequisites**

BIT243 or the CEPT Certified Expert Penetration Tester certification. Certification must be dated no longer than 5 years

Semester Offered

Spring

BIT260 : Information Technology Field Project

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.

Credits 1**Prerequisites**

Permission of IT Coordinator

Semester Offered

Varies

Notes

May be repeated once for credit.

BIT261 : Information Technology Cooperative**Work Experience**

The student works in an Information Technology (IT) environment for 150 hours to gain practical training as a capstone experience. This course may be repeated once for credit. Limited to students enrolled in an Information Technology program. The students should have already completed the first two semesters of the IT program's academic map.

Credits 3**Prerequisites**

Requires completion of at least 15 credit hours of IT (BIT and GIT) courses AND PERMISSION of IT Coordinator

Semester Offered

Fall

Spring

Summer

Notes

May be repeated once for credit.

BIT266 : Application Development for Mobile

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.

Credits 3**Prerequisites**

ENL108 or ESL201 or
satisfactory
basic skills
assessment
scores and
(

CSC110 or CSC120 or
BIT175)

Semester Offered

Spring

BIT284 : Javascript & JQuery Web Scripting

Building on HTML, DHTML, and CSS skills, students learn to use Javascript and JQuery to create dynamic web sites. XML, AJAX, JSON, and Blogger and API's for YouTube, Twitter, and Flickr are introduced.

Credits 3**Prerequisites**

GIT183

Semester Offered

Varies

BIT286 : PHP and MySQL for Web Development

Students build on JavaScript, programming, database, HTML, DHTML, and CSS skills. This course introduces the web developer to the PHP scripting language and the MySQL database system and enables students to plan and develop end-to-end, database-driven web sites and applications.

Credits 3**Prerequisites**

GIT183,GIT150

Semester Offered

Varies

Biology

BIO103 : Consumer Nutrition

This course presents information on nutrients and their use by the body. Topics include digestion, nutrient intake and usage, consequences of nutrient deficiencies or excesses, energy exchanges and production, analysis of individual diets, food-borne illnesses and nutritional misinformation. This course does not have a lab component.

Credits 3**Prerequisites**

ENL025 or satisfactory basic skills assessment scores

Semester Offered

Fall

Spring

Summer

Notes

Satisfies a Natural or Physical Science general education requirement.

BIO105 : Survey: Human Anatomy & Physiology

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)

Credits 4**Prerequisites**

(MAT020MAT025),ENL108 or ESL201 or

satisfactory
basic skills
assessment
scores**Semester Offered**

Fall

Spring

Summer

Notes

Satisfies a Natural or Physical Science general education requirement.

BIO109 : Survey of Biology

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.

Credits 4**Prerequisites**

(MAT020MAT025),ENL108 or ESL201 or

or
satisfactory
basic skills
assessment
scores**Semester Offered**

Fall

Spring

Summer

Notes

Satisfies a Natural or Physical Science general education requirement.

BIO141 : Survey of Microbiology

Microbes constitute the majority of organisms in nature, and associate and interact with other living organisms in unexpected and interesting ways. This course examines the different groups of microbes with respect to their structure, physiology, and behavior. Microbes used in the industrial, pharmaceutical, food processing, and agricultural applications will be introduced. The laboratory component introduces basic skills of viewing, handling, growing, and identifying microorganisms.

Credits 4

Prerequisites

MAT025, ENL108 or ESL201 or satisfactory basic skills assessment scores

Semester Offered

Varies

Notes

Satisfies a Natural or Physical Science general education requirement. This course satisfies the 4-credit general education science course requirement. It does not satisfy requirements of healthcare-related programs.

BIO151 : General Biology I

This first course in a two-semester sequence in introductory biology for science majors or science-interested students is designed to acquaint the student with foundational principles of biology with an emphasis on cellular structure and function. Topics covered will include the basic chemical properties of living things, cellular metabolism, molecular genetics, gene expression and Mendelian genetics. The laboratory features activities and experiments that reinforce the concepts presented in lecture. (3 class hours/3 laboratory hours)

Credits 4

Prerequisites

MAT045 or satisfactory basic skills assessment scores. Co-requisite: ENL101

Semester Offered

Fall

Spring

Summer

Notes

Satisfies a Natural or Physical Science general education requirement.

BIO152 : General Biology II

The second in a two-semester sequence in introductory biology for science majors or science-interested students. It is designed to acquaint the student with the evolution and diversity of life as well as general ecological principles. Prokaryotes, unicellular eukaryotes, plants, fungi and animals are studied. The laboratory features activities and experiments that reinforce the concepts presented in lecture. Microscopy, dissection, and some field work provide the basis for learning. (3 class hours/3 laboratory hours)

Credits 4

Prerequisites

Grade of C or higher in BIO101 or BIO151

Semester Offered

Fall

Spring

Summer

Notes

Satisfies a Natural or Physical Science general education requirement.

BIO199 : Special Laboratory in the Life Sciences

A laboratory portion of existing physical science courses that provides 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, and 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 CCCC will not be allowed to register for BIO199, since the life sciences courses at CCCC are designed and taught such that the laboratory and lecture are non-separable.

Credits 1

Prerequisites

Completion of the non-lab portion of a transferred life sciences course and permission of the Academic Dean

Semester Offered

Varies

BIO204 : Introduction to Public Health

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.

Credits 3

Prerequisites

(MAT030/MAT035) or ENL101, and a
or satisfactory 4-credit
basic skills science
assessment course with
score, lab
component

Semester Offered

Fall
Spring.

Notes

Satisfies a Natural or Physical Science general education requirement.

BIO205 : General Ecology

The lecture portion of this course provides an introduction to the fundamentals of ecology including the interactions of populations, communities, and ecosystems. Students will be introduced to the techniques of ecological data gathering and analysis. The laboratory exposes students to the field techniques used in investigating different ecological communities, specifically of Cape Cod, and emphasizes team-based research. One Saturday field trip is required for the laboratory component. (3 class hours/3 laboratory hours per week)

Credits 4

Prerequisites

ENL101 and a grade of C or higher BIO152 or ENV118
in

Semester Offered

Fall

Notes

Satisfies Natural or Physical Science general education requirement.

BIO210 : Bird Biology

This is an introduction to the biology of birds and their behavior. Special emphasis is given to species of the United States and Massachusetts. A wide range of topics is presented, including field identification by sight and sound; taxonomy; breeding biology; foraging ecology; feather structure; flight; migration and orientation; anatomy and physiology. (3 class hours/3 laboratory hours per week).

Credits 4

Prerequisites

Grade of C or BIO151 or ENV118 or permission of
higher in instructor.

Semester Offered

Varies

Notes

Satisfies a Natural or Physical Science general education requirement.

BIO241 : Cell Biology

This course provides an introduction to cell structure, function, and physiology. Topics include the function of cellular organelles, enzymes and their role in metabolism and regulation, synthesis of macromolecules, and gene expression and regulation.

Credits 4

Prerequisites

ENL101 and a grade of CHM151 and BIO151 or BIO251
C or better in

Semester Offered

Fall

Notes

Satisfies a Natural or Physical Science general education requirement.

BIO242 : Molecular Genetics

This course fulfills the requirements of a second year elective for a CCCC degree in Biology. It builds upon the foundational principles of molecular biology and genetics introduced in BIO151 (General Biology I). Topics covered will include cellular replication; chromosomal structure and inheritance; gene expression, regulation and development; and biotechnology. The laboratory features activities and experiments that reinforce the concepts presented in lecture. (3 class hours/3 laboratory hours).

Credits 4

Prerequisite Courses

BIO151: General Biology I

Semester Offered

Spring

BIO251 : Human Anatomy & Physiology I

A comprehensive systematic study of the human body emphasizing the structure and function of the systems. Topics covered include: a review of biochemistry and cellular structure and function, tissue types, the integumentary, skeletal muscular, and nervous systems (neurophysiology, CNS, PNS, and Special Senses) with correlated hands-on laboratory work. (3 class hours/2 laboratory hours).

Credits 4

Prerequisites

Grade of C or higher in [BIO109](#) or [BIO151](#)

Semester Offered

Fall
Spring
Summer

Notes

Satisfies a Natural or Physical Science general education requirement.

BIO252 : Human Anatomy & Physiology II

A continuation of the comprehensive systematic study of the human body emphasizing the structure and function of the systems. Topics covered include: autonomic nervous system, reproductive, endocrine, cardiovascular, lymphatic, respiratory, digestive, and urinary systems. Lecture topics are correlated with hands-on laboratory work (3 class hours/2 laboratory hours).

Credits 4

Prerequisites

A grade of C or better in [BIO251](#)

Semester Offered

Fall
Spring
Summer

BIO281 : Microbiology

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 introduces basic procedures of handling, growing, and identifying microorganisms. (3 class hours/2 laboratory hours per week)

Credits 4

Prerequisites

A grade of [CHM151](#) or [CHM109](#)) [BIO152](#) or [BIO252](#))
C or and
higher in (in (

Semester Offered

Fall
Spring
Summer

Business

BUS100 : Introduction to Business

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.

Credits 3

Prerequisites

None

Semester Offered

Fall
Spring
Summer

BUS102 : Business Communication

This course is designed to expose the student to a variety of communication modes available to individuals employed in today's business environment. The following major areas are addressed: communication theory, electronic communications in business, oral presentations, ethical practices and written business documents. The importance of accurate communications and the development of language art skills are emphasized. Business communications and formats, including business reports, letters, and memos, are studied.

Credits 3

Prerequisites

[GIT102](#) or 30 [ENL108](#) or [ESL201](#) or satisfactory
wpm and basic skills
assessment score.

Semester Offered

Fall
Spring

BUS103 : Supervision

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 will be on the practical experiences of supervisors.

Credits 3

Prerequisites

None

Semester Offered

Fall
Spring
Summer

BUS107 : Human Resource Management

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 agency.

Credits 3

Prerequisites

None

Semester Offered

Fall
Spring
Summer

BUS112 : Organizational Behavior

Students acquire the skills required to successfully evaluate their behavior in organizational settings. Students analyze how each person within an organization effects an organization and how an organization effects each person. Group/team dynamics are explored in order to see their effect on group and individual performance. Issues that impact the success of an organization are studied. Tools appropriate for accomplishing dynamic change, breaking communication barriers, resolving conflicts, improving leadership skills, and inspiring motivation and collaboration are explored.

Credits 3

Prerequisites

[ENL108](#) or satisfactory basic skills assessment score

Semester Offered

Varies

BUS120 : Business Law I

This course is a comprehensive guide to the basic principles and practices of Business Law including an introduction to law and its application in the business world. The course covers business ethics; the judicial process and court systems; the constitutional grounds for business regulation; torts, personal, real, and intellectual property; contracts, sales, agency, employment law, business organizations including partnerships and corporations; and government regulation of business.

Credits 3

Prerequisites

None

Semester Offered

Fall
Spring
Summer

BUS175 : My Finances

Students learn about personal money management. Various tools and resources are used to explore several aspects of basic personal finance while emphasizing good money management skills throughout.

Credits 3

Prerequisites

None

Semester Offered

Fall
Spring

Notes

Satisfies a General Education Elective.

BUS201 : Business Finance

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.

Credits 3

Prerequisites

[ACC202](#) or [ACC105](#)

Semester Offered

Fall
Spring
Summer

BUS214 : Management

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.

Credits 3

Prerequisites

[ENL101](#), [BUS100](#)

Semester Offered

Fall
Spring
Summer

Chemistry

CHM106 : Survey of Chemistry

Presents the fundamentals of chemistry that are integral to an understanding of physical and biological processes. Emphasis is placed on the relationships between these processes and contemporary environmental topics. For non-science majors. (3 class hours/2 laboratory hours)

Credits 4

Prerequisites

: MATO25, ENL108 or ESL201 or satisfactory
MATO20 basic skills
or assessment
scores

Semester Offered

Fall
Spring

Notes

Satisfies a Natural or Physical Science general education requirement.

CHM109 : Chemistry for the Health Sciences

An introductory course for students in various health-related programs. Emphasis is placed on practical aspects of inorganic chemistry. Some organic chemistry is introduced. (3 class hours/2 laboratory hours)

Credits 4

Prerequisites

MAT030, MAT035, ENL108 or ESL201 or satisfactory
or basic skills
assessment
score

Semester Offered

Fall
Spring
Summer

Notes

Satisfies a Natural or Physical Science general education requirement.

CHM151 : General Chemistry I

This course emphasizes the atomic nature of matter, fundamental laws and theories of mass and energy, the periodic classification of elements, chemical bonding, nomenclature, kinetic 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)

Credits 4

Prerequisites

MAT040, MAT045 or satisfactory basic ENL101
or skills assessment scores.
Co-requisite:

Semester Offered

Fall
Summer

Notes

Satisfies a Natural or Physical Science general education requirement.

CHM152 : General Chemistry II

Continuation of
CHM151

. Considers the study of chemical families, chemical kinetics, chemical equilibria, solubility products, electrochemistry, nuclear chemistry and organic chemistry. Laboratory studies reinforce the principles and concepts studied in lecture and include the qualitative analysis of metals. (3 class hours/3 laboratory hours)

Credits 4

Prerequisites

A grade of C or better in CHM101 or CHM151

Semester Offered

Spring

Notes

Satisfies a Natural or Physical Science general education requirement.

CHM251 : Organic Chemistry I

This course covers organic nomenclature, bonding, structure, reaction theory, aliphatic hydrocarbons, functional groups, stereochemistry, aromatic hydrocarbons, alkyl halides, and reaction mechanisms. The laboratory emphasizes basic laboratory techniques for separation, purification and synthesis. (3 class hours/4 laboratory hours)

Credits 5

Prerequisites

A grade of C or higher in CHM102 or CHM152

Semester Offered

Fall

CHM252 : Organic Chemistry II

Continues

[CHM251](#)

Organic Chemistry I. 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)

Credits 5

Prerequisites

A grade of C or better in CHM201 or [CHM252](#)

Semester Offered

Spring

Communication

COM100 : Voice and Diction

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 students working to improve their oral skills with an interest toward performance and/or oration.

Credits 3

Prerequisites

None

Semester Offered

Fall

COM103 : Human Communication

This course fosters and improves competence in intrapersonal, interpersonal, group and public communication situations. Students 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.

Credits 3

Prerequisites

[ENL025](#) or [ESL102](#) or satisfactory basic skills assessment score

Semester Offered

Fall

Spring

Summer

Notes

Satisfies a Humanities and Fine Arts general education requirement.

COM105 : Survey of Mass Communication

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 new media-oriented environment in which we find ourselves and to explore various options available as a consumer of public information.

Credits 3

Prerequisites

[ENL025](#) or satisfactory basic skills assessment score

Semester Offered

Fall

Spring

Notes

Satisfies a Humanities and Fine Arts general education requirement.

COM113 : Radio Broadcasting

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 involving programming formats are considered. Students apply knowledge to individual and collective work projects. Students in this course are expected to be proficient in computer file management skills. (60 contact hours per semester)

Credits 3

Prerequisites

None

Semester Offered

Spring

COM114 : Radio Production

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 in this course are expected to be proficient in computer file management skills. (60 contact hours per semester)

Credits 3

Prerequisites

None

Semester Offered

Fall

COM120 : Introduction to Film

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 contact hours)

Credits 3

Prerequisite Courses

[ENL101: English Composition I](#)

Semester Offered

Fall

Notes

Satisfies a Humanities & Fine Arts general education requirement.

COM131 : Introduction to Video Production

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 in this course are expected to be proficient in computer file management skills.

Credits 3

Prerequisites

None

Semester Offered

Fall

COM201 : Interpersonal Communication

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.

Credits 3

Prerequisites

[COM103](#) or [ENL101](#)

Semester Offered

Fall

Spring

Notes

Satisfies a Humanities and Fine Arts general education requirement.

COM203 : Public Speaking

A study of elements of public communication through various one-to-many speaking situations. Emphases include communication theory, speaker-audience relationships, speaker resources, speech construction and delivery.

Credits 3

Prerequisites

[COM103](#) or [ENL101](#) or [ENL108](#) or [ESL201](#)

Semester Offered

Fall

Notes

Satisfies a Humanities and Fine Arts general education requirement.

COM204 : Persuasive Communication

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 theory discussed.

Credits 3

Prerequisites

[COM103](#) or [ENL101](#) or [ENL108](#) or [ESL201](#)

Semester Offered

Spring

Notes

Satisfies Humanities & Fine Arts (or) Behavioral & Social Sciences general education requirement.

COM206 : Communication in Current Settings

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.

Credits 3

Prerequisite Courses

[COM103: Human Communication](#)

Semester Offered

Varies

Notes

May be repeated once for credit.

COM207 : Argumentation & Debate

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.

Credits 3**Prerequisites**

COM103orENL101orENL108orESL201

Semester Offered

Fall

Spring

Notes

Satisfies a Humanities and Fine Arts general education requirement. May be repeated once for credit.

COM208 : Broadcast Writing and Presentation

This course introduces students to writing for broadcast media. Students create and present copy over varied media forms including radio, podcast, television, and new media. The course examines news standards, practices, and ethics. Students learn about the importance of deadlines, fact checking and delivering copy in written, verbal, and recorded formats.

Credits 3**Prerequisites**

ENL101

Semester Offered

Spring/odd

COM214 : Media & Society

This course helps students understand the broader effects of mass and social media on a communicative, psychological and sociological level. Social media industries such as Facebook, Twitter, Instagram and virtual gaming/social worlds are analyzed in relation to shifting cultural and socioeconomic trends. Special attention is afforded to the oversaturation and distribution of "fake news" via social networks and how viral media is used to sway public opinion.

Credits 3**Prerequisites**

COM103orCOM105

Semester Offered

Fall

COM215 : Social Media Marketing & Communications

Students study and apply relevant digital marketing and communication theory. In the context of current platforms, students research, plan, execute, and analyze social media marketing and communication campaigns to achieve goals. Students assess the ethical, political, cultural, and social impact of social media, marketing, and communications. This course prepares students for Google Analytics Certification.

Credits 3**Prerequisites**

COM103,MKT100

Semester Offered

Spring

Notes

Satisfies a Humanities & Fine Arts general education requirement.

COM216 : Event Planning & Management

This course offers an introduction to the researching, planning, coordinating, marketing, management, implementation, and evaluation of special events. Through the study of relevant communication and management theory, as well as practical hands on experience, students will learn about the wide range of components that go into the execution of events of all sizes. Specific areas of study include food and beverage service, laws and permits, security, advertising and promotion, and logistics.

Credits 3**Prerequisites**

(COM103 or COM202) or (CUL150 or HRM140)

Semester Offered

Spring/odd

Notes

Satisfies a General Education elective. Students may not earn credit for HRM216.

COM221 : The American Film

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 contact hours)

Credits 3**Prerequisite Courses**

ENL101: English Composition I

Semester Offered

Spring/even

Notes

Satisfies a Humanities & Fine Arts general education requirement.

COM222 : International Cinema

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)

Credits 3

Prerequisite Courses

[ENL101: English Composition I](#)

Semester Offered

Spring/odd

Notes

Satisfies a Humanities & Fine Arts general education requirement.

COM224 : Documentary Film

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 will 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.

Credits 3

Prerequisite Courses

[ENL101: English Composition I](#)

Semester Offered

Summer

COM231 : Advanced Radio Production

Building upon the skill based in

[COM113](#)

, students 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.

Credits 3

Prerequisite Courses

[COM113: Radio Broadcasting](#)

Semester Offered

Spring/even

COM263 : Communication Cooperative Work Experience

Students work in an approved organizational setting, 50 hours per credit up to 150 hours, receive practical training and experience related to the student's academic program.

Credits 1-3

Prerequisites

[COM103](#) and six more hours of Communication Concentration courses and approval of the department.

Semester Offered

Fall

Spring

Summer

COM264 : Media Communication Cooperative Work Experience

Students work in an approved organizational setting, 50 hours per credit up to 150 hours, to receive practical training and experience related to the student's academic program.

Credits 1-2

Prerequisites

[COM103](#), [COM105](#) and three more hours of Communication Concentration courses and approval of the department.

Semester Offered

Fall

Spring

Summer

Computer Science

CSC105 : Computer Programming I: Python

In this introduction to the field of computer science, students use projects and teamwork to design, implement, and test programs in Python. Programming style, expression, and documentation are emphasized. Object-oriented programming methodology, graphical user interfaces, debugging techniques, string processing, and basic searching and sorting algorithms are covered. Python provides an introduction to programming for students in any academic discipline.

Credits 3

Prerequisites

None

Semester Offered

Spring

CSC110 : Computer Programming I: Java

In this introduction to the field of computer science, students use projects and teamwork to design, implement, and test programs in Java. Programming style, expression, and documentation are emphasized. Object-oriented programming methodology, graphical user interfaces, debugging techniques, string processing, and arrays are covered. Java provides an introduction to programming for students in any academic discipline.

Credits 3

Prerequisites

[MAT035](#) or satisfactory basic skills assessment score

Semester Offered

Fall

Spring

CSC120 : Computer Programming I: C++

Students use projects and teamwork to design, implement, and test programs in C++. Programming style, expression, and documentation are emphasized. Object-oriented programming methodology, graphical user interfaces, debugging techniques, pointers, simple recursion, and string processing are covered.

Credits 4

Prerequisites

[MAT035](#) or satisfactory basic skills assessment score and working knowledge of any programming language

Semester Offered

Fall

CSC125 : Procedural Programming

Students design programs in C using a procedural design paradigm that examines issues associated with low-level programming such as explicit memory management, efficiency, pointers, the compilation process, and debugging. C programs are run in a Unix/Linux environment.

Credits 4

Prerequisites

Any college-level programming course

Semester Offered

Fall

CSC130 : Computer Programming II: Java

Students use projects and teamwork to design, implement, and test large computer programs in Java, with emphasis on programming style, expression, and documentation. Object-oriented programming methodology, abstract data types, data structures, internal searching and sorting methods, exceptions, generics, multithreading, and simple recursion are covered. Students analyze the efficiency and compare times of recursive and non-recursive sorts and searches, as well as searches of graphs using stacks and queues.

Credits 4

Prerequisites

[CSC110](#) or [CSC120](#) or [CSC105](#)

Semester Offered

Fall

Spring

CSC210 : System Software & Assembly Language Programming

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 macro processors. 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.)

Credits 4

Prerequisite Courses

[CSC130: Computer Programming II: Java](#)

Semester Offered

Varies

CSC230 : Data Structures

Students use data structures and recursion in Java to solve complex problems. Abstract Data Types (ADTs) including lists, stacks, queues, tables, sets, maps, heaps, and trees are examined and implemented. Students analyze the theoretical and actual running times of the alternate ADT implementations as well as internal/external searching and sorting algorithms, graph algorithms, and hashing.

Credits 4

Prerequisite Courses

[CSC130: Computer Programming II: Java](#)

Semester Offered

Fall

CSC240 : Introduction to Computer Systems

Students investigate how computer systems execute programs, store information, and communicate in order to become more effective programmers in terms of performance, portability, and robustness. Topics covered include: machine-level code and its generation by optimizing compilers, performance evaluation and optimization, computer arithmetic, memory organization and management, networking technology and protocols, and supporting concurrent computation. 4 class hours.

Credits 4

Prerequisite Courses

[CSC130: Computer Programming II: Java](#)

Semester Offered

Varies

CSC250 : Computer Organizational & Architecture

Students acquire an understanding and appreciation of a computer system's functional components, their characteristics, performance, and interactions. Students evaluate computer architecture to develop programs that can achieve high performance through a programmer's awareness of parallelism and latency. In selecting a system to use, students analyze the tradeoff among various components, such as CPU clock speed, cycles per instruction, memory size, and average memory access time. Topics include digital logic, assembly language machine organization, and hardware-level C and assembly language programming.

Credits 4

Prerequisite Courses

[CSC130: Computer Programming II: Java](#)

Semester Offered

Varies

Construction Technology

CON100 : Quantitative Skills for Construction

This course will apply 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 will be included. Problem solving will use cases that introduce concepts of the estimating process for selected parts of a construction project including lumber pricing, footings, foundations, girders, sill plates, bridging, floor joists, flooring, wall framing, and roofing.

Credits 2

Prerequisites

(MAT030 [MAT035](#)) or satisfactory basic skills or assessment score

Semester Offered

Fall

Summer

CON121 : MA State Building Code – Residential

Students develop a working knowledge of the Massachusetts State Building Code for residential properties and learn the process of constructing a residential building from ground to finish with an emphasis on building code requirements. This course is helpful in obtaining information and skills necessary to pass the Massachusetts Restricted – One and Two Family Dwelling Construction Supervisors Exam.

Credits 3

Prerequisites

None

Semester Offered

Varies

CON130 : Computer Aided Drafting I

This is a first course in computer aided drafting with a focus on Autodesk's AutoCAD and Civil 3D software. Civil engineers are encouraged to have knowledge of this software. Students are introduced to the standard graphical means of communication between the civil engineer and the constructor. The emphasis is on developing drafting techniques using the computer as the drafting tool. Specific topics include 2-D drawing, multi-view drawing, orthographic views, dimensioning, sectional views, and graphic patterns.

Credits 3

Prerequisites

None

Semester Offered

Varies

CON135 : Computer Aided Drafting II

This is a second course in computer-aided drafting. A brief review of

[CON130](#)

is followed by advanced skill acquisition in land survey modeling, modeling existing ground using surfaces, designing in 2D using alignments, designing vertically using profiles, and basics of 3D design. Students hone their skills in using Autodesk's AutoCAD and Civil 3D software.

Credits 3

Prerequisite Courses

[CON130: Computer Aided Drafting I](#)

Semester Offered

Varies

CON200 : Architectural Drafting I

This course focuses on architectural drafting techniques utilizing Autodesk's AutoCAD and Civil 3D drafting software as the drafting tool. Students review and expand their knowledge of AutoCAD and Civil 3D drawing commands and techniques while learning basic through advanced drafting concepts. The production of a basic set of architectural drawings is completed throughout the semester.

Credits 3

Prerequisite Courses

[CON130: Computer Aided Drafting I](#)

Semester Offered

Varies

CON201 : Architectural Drafting II

This advanced course provides students with practical experience in preparing working drawings for building construction. The class utilizes concepts developed in [CON130](#) and [CON200](#) utilizing Autodesk's AutoCAD and Civil 3D drafting and documentation software. A complete set of residential working drawings are prepared over the course of the semester. A comprehensive exploration of the architectural process is communicated and advanced drafting and AutoCAD and Civil 3D skills are applied.

Credits 3

Prerequisite Courses

[CON200: Architectural Drafting I](#)

Semester Offered

Varies

Criminal Justice

CRJ100 : Introduction to Criminal Justice

This course is a study of the nature and history of criminal justice. Students are provided an overview of the three entities of criminal justice system: law enforcement, corrections, and the judicial system. Students examine and evaluate how each entity works separately as well as with each other. Measuring crime and analyzing the ethics of crime control allow students to determine the effectiveness of laws and policies in contemporary society.

Credits 3

Prerequisites

None

Semester Offered

Fall

CRJ103 : Criminal Law

This course is a study of the nature and extent of substantive law and the rules of criminal procedure, the historical and philosophical foundations of criminal law, highlighting the major concepts of crimes and penalties, and the overall legal system. It will include an emphasis on contemporary state and federal laws and the Constitution of the United States.

Credits 3

Prerequisites

None

Semester Offered

Fall

Spring

CRJ105 : Criminology, Theory and Practice

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.

Credits 3

Prerequisites

None

Semester Offered

Fall

Spring

Notes

Satisfies a Behavioral and Social Sciences general education requirement.

CRJ116 : Introduction to Corrections

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.

Credits 3

Prerequisites

None

Semester Offered

Spring

CRJ117 : Correctional Law

This course is a survey of correctional law with emphasis on Federal and Massachusetts cases and regulation that govern the detention of prisoners, sentenced and un-sentenced. Emphasis will be placed on the balance between inmate's and detainee's rights versus the safety and security of the public. The relationship among local rules, Massachusetts Code of Regulation and Federal Regulations governing correctional facilities will be discussed.

Credits 3

Prerequisite Courses

[CRJ116: Introduction to Corrections](#)

Semester Offered

Spring

CRJ125 : Contemporary Policing

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.

Credits 3

Prerequisites

None

Semester Offered

Fall

Spring

CRJ130 : Criminal Evidence

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.

Credits 3**Prerequisites**

None

Semester Offered

Fall

Summer

CRJ135 : Terrorism

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.

Credits 3**Prerequisites**

ENL108 or ESL201 or satisfactory basic skills assessment score

Semester Offered

Spring

Summer

CRJ206 : Principles of Investigation I

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.

Credits 3**Prerequisites**

All Level I Criminal Justice courses

Semester Offered

Fall

CRJ207 : Principles of Investigation II

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.

Credits 3**Prerequisites**[CRJ206](#) and all Level I Criminal Justice courses**Semester Offered**

Spring

CRJ210 : Ethical Issues in Criminal Justice

This course examines 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 will be used to illustrate ethical reasoning.

Credits 3**Prerequisites**

All Level I Criminal Justice courses

Semester Offered

Fall

CRJ220 : Crisis Intervention for Criminal Justice Professionals

This course explores the relationship of criminal justice professionals and crisis intervention. Special emphasis will be placed upon the development and utilization of helping skills in dealing with crisis situations.

Credits 3**Prerequisites**[CRJ116](#), [PSY101](#)**Semester Offered**

Fall

CRJ221 : Juvenile Justice

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.

Credits 3**Prerequisites**

All Level I Criminal Justice courses

Semester Offered

Spring

CRJ240 : Selected Issues in Criminal Justice

The course seeks to explore issues that are currently facing the criminal justice system. The current topic is Exploring Differences, Multiculturalism and Beyond.

Credits 3**Prerequisites**

All Level I Criminal Justice courses

Semester Offered

Spring

CRJ261 : Criminal Justice Cooperative Work Experience

A supervised work/learning experience in a local criminal justice agency combined with a seminar component for student feedback and evaluation. The student must complete 150 hours of supervised work. Required for A.S. in Criminal Justice.

Credits 3

Prerequisites

All Level I Criminal Justice courses

Semester Offered

Fall
Spring
Summer

CRJ262 : Corrections Cooperative Work Experience

A supervised work/learning experience specifically in the field of corrections combined with a seminar component for student feedback and evaluation. The student must complete 150 hours of supervised work. All students must be able to pass successful CORI/SORI background checks and meet technical standards.

Credits 3

Prerequisites

Completion of all certificate course requirements

Semester Offered

Varies

Culinary

CUL150 : Fundamentals of Professional Cooking

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.

Credits 4

Prerequisites

None

Semester Offered

Fall
Spring

CUL180 : Baking I

An introduction to the principles of professional baking including: the chemistry of baking, terminology, scaling and measuring, and equipment use. Preparation includes 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)

Credits 3

Prerequisites

None

Semester Offered

Fall
Spring

CUL210 : Dining Room Operations & Service

This course provides an introduction in 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 serve meals prepared in a restaurant setting during the course of the semester. (2 class hours/4 laboratory hours).

Credits 4

Prerequisites

[CUL150](#) or [HRM140](#)

Semester Offered

Spring

CUL220 : Advanced Culinary Arts

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, including purchasing and menu specifications, proper ordering, receiving and storage of foods, and analysis of business activity from a monetary perspective. (2 lecture hours/4 lab hours)

Credits 4

Prerequisites

HRM 140 or HRM150/[CUL150](#)

Semester Offered

Fall
Spring

Notes

Limited to CAC students only.

Dance

DAN102 : Musical Theater Dance

This course is designed to develop students' musical theater dance skills. The class covers the basic steps, vocabulary, and variations of jazz, tap and contemporary choreography as they relate to musical theater. The course explores the influence of award winning choreographers. Students cultivate acting skills and character development as channeled through dance. Although singing is not taught, the instructor emphasizes the importance of vocal training to complement musical theater dance training.

Credits 3

Prerequisites

[ENL025](#) or satisfactory basic skills assessment score

Semester Offered

Fall/odd

DAN120 : Modern Dance

This course provides students with a fundamental knowledge of modern dance techniques and composition. Participation in dance exercises, observation, and discussion of various modern dance styles enables students to develop a physical awareness and understanding of modern dance. Emphasis is placed on participation.

Credits 3

Prerequisites

[ENL025](#) or satisfactory basic skills assessment score

Semester Offered

Fall

Spring

Notes

Satisfies a Humanities & Fine Arts general education requirement. May be repeated once for credit.

Dental Hygiene

DEN101 : Oral Tissues I

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.

Credits 2

Prerequisites

[ENL025](#) or satisfactory basic skills assessment scores and [CHM109](#)

Semester Offered

Fall

DEN102 : Oral Tissues II

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.

Credits 2

Prerequisite Courses

[DEN101: Oral Tissues I](#)

Semester Offered

Spring

DEN103 : Principles of Oral Radiology

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, special patient techniques, digital radiography/film, radiographic interpretation, manual /automatic processing, and infection prevention. Lab experience includes: parallel and bisecting-angle technique, film/digital radiography, Panelipse, special patient techniques, automatic processing equipment, and radiographic interpretation.

Credits 3

Prerequisite Courses

[CHM109: Chemistry for the Health Sciences](#)

Semester Offered

Fall

DEN105 : Community Dental Health

Community Dental Health is the science and art of promoting oral health and preventing oral disease in a community setting. Through this course, the student will acquire the knowledge, attitudes, skills and behaviors necessary to promote dental health and prevent dental disease through organized community-based programs. Students will be introduced to basic principles of research methodology and biostatistics, epidemiological indices, population needs, and community health planning methods for dental education of the public.

Credits 2**Prerequisites**

DEN123, DEN128

Semester Offered

Spring

DEN121 : Dental Hygiene I

This course introduces the profession of dental hygiene, the dental hygiene code of ethics, principles of infection and exposure prevention, 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 with an introduction to safety and emergency procedures. Oral health education, oral physiotherapy techniques, oral hygiene indices are introduced. Extrinsic stain removal and fluoride theories are discussed.

Credits 2**Prerequisites**

ENL108 or ESL201 or satisfactory basic skills assessment score and CHM109

Semester Offered

Fall

DEN123 : Dental Hygiene II

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.

Credits 2**Prerequisite Courses**

DEN121: Dental Hygiene I

Semester Offered

Spring

DEN126 : Clinical Dental Hygiene I

The principles, protocols and components of the dental hygiene process of care described in DEN 121 are applied in a pre-clinical setting. Additionally, ergonomics, patient/operator positioning, extrinsic stain removal and instrumentation skills with assessment and debridement instruments are introduced and practiced on both typodonts and student partners. Instrument sharpening skills are developed.

Credits 3**Prerequisites**

ENL108 or ESL201 or satisfactory basic skills assessment scores

Semester Offered

Fall

DEN128 : Clinical Dental Hygiene II

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.

Credits 4**Prerequisite Courses**

DEN121: Dental Hygiene I

DEN126: Clinical Dental Hygiene I

Semester Offered

Spring

DEN200 : Pharmacology for Dental Hygiene

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.

Credits 3**Prerequisite Courses**

DEN121: Dental Hygiene I

Semester Offered

Spring

DEN205 : Oral Pathology

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.

Credits 3

Prerequisite Courses

[DEN121: Dental Hygiene I](#)

[DEN126: Clinical Dental Hygiene I](#)

Semester Offered

Spring

DEN209 : Dental Materials

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)

Credits 3

Prerequisite Courses

[DEN123: Dental Hygiene II](#)

[DEN128: Clinical Dental Hygiene II](#)

Semester Offered

Fall

DEN211 : Periodontics

This course is an advanced study of the periodontium and its relationship to clinical practice. Incorporating current research, emphasis will be 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.

Credits 2

Prerequisite Courses

[DEN123: Dental Hygiene II](#)

[DEN128: Clinical Dental Hygiene II](#)

Semester Offered

Fall

DEN230 : Dental Hygiene III

This course emphasizes evidence based research and case based learning to integrate elements of theory, knowledge, and research into patient care. Students explore a deeper level of published research and complete a research project. Students apply accumulated knowledge to plan and manage care for a variety of patients utilizing risk assessment and the dental hygiene process of care. An exploration into dental specialty practices will be provided, focusing on the hygienist's role in each specialty.

Credits 2

Prerequisite Courses

[DEN123: Dental Hygiene II](#)

[DEN128: Clinical Dental Hygiene II](#)

Semester Offered

Fall

DEN232 : Dental Hygiene IV

In lecture, students will be introduced to areas of private practice: ethics, practice acts, national and regional licensure, professional organizations, practice management, recare management, and computer use. Discussions include resume writing, the job interview and the future of dental hygiene.

Credits 2

Prerequisite Courses

[DEN230: Dental Hygiene III](#)

Semester Offered

Spring

DEN236 : Clinical Dental Hygiene III

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. (196 clinic hours)

Credits 4

Prerequisite Courses

[DEN123: Dental Hygiene II](#)

[DEN128: Clinical Dental Hygiene II](#)

Semester Offered

Fall

DEN237 : Pain Management in Dental Hygiene Practice

This course is intended to provide a comprehensive study of local dental anesthetics utilized in the dental hygiene profession. Utilizing lecture and lab components, the student will learn 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.

Credits 2**Prerequisite Courses**

DEN123: Dental Hygiene II

DEN128: Clinical Dental Hygiene II

Semester Offered

Fall

DEN238 : Clinical Dental Hygiene IV

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. (196 clinic hours)

Credits 4**Prerequisite Courses**

DEN230: Dental Hygiene III

DEN236: Clinical Dental Hygiene III

Semester Offered

Spring

Early Childhood Education

ECE100 : Introduction to Early Childhood Education

This course will explore the role of the early childhood teacher and his/her responsibilities: forming a professional attitude, relating effectively with others, and managing successfully within the pre-school environment in daily learning and social situations. It will include observations of children in a child care setting. (12 hours observation/field work per semester)

Credits 3**Prerequisites**

None. Co- [ENL108](#) or satisfactory basic skills requisite: assessment scores

Semester Offered

Fall

Spring

ECE105 : Introduction to Young Children with Special Needs (Birth-8 years)

This course will focus 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 will be given to State and Federal Legislation, the referral process, community resources, and effective ways to work with families. (6 hours observation/field work)

Credits 3**Prerequisites**

ECE100 or PSY201

Semester Offered

Fall

Spring

ECE110 : Child Growth and Development

This course examines child development from conception to age nine by considering the complex interaction between hereditary and environmental factors. Children's physical, social, emotional, and cognitive development are discussed, as well as the 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 teacher certification of infants, toddlers, and/or preschool children.

Credits 3**Prerequisites**

None

Semester Offered

Fall

Spring

Summer

ECE115 : Literacy and the Young Child

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)

Credits 3**Prerequisites**

None

Semester Offered

Varies

ECE200 : Teaching Infants and Toddlers

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)

Credits 3

Prerequisites

PSY201 or ECE100

Semester Offered

Spring

ECE201 : Preschool Curriculum Planning

This course explores the curriculum planning for inclusive preschool settings, children ages 2.9–5 years. 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)

Credits 3

Prerequisites

ECE100 or PSY201

Semester Offered

Fall

Spring

ECE202 : Advanced Curriculum Development: Creative Experiences for Early Childhood Education

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 ages 2–7 in inclusive settings. Students are required to try out their ideas with children. 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)

Credits 3

Prerequisite Courses

ECE201: Preschool Curriculum Planning

Semester Offered

Fall

ECE206 : Field Experience in Early Childhood Education

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)

Credits 1

Prerequisites

ECE100 and ECE200 or ECE201

Semester Offered

Fall

Spring

Notes

May be repeated for a maximum of 3 credits.

ECE211 : Curriculum Strategies for Teaching Math & Science to Young Children

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 project approach to teaching science and math. (6 hours observation/field work)

Credits 3

Prerequisites

PSY201

Semester Offered

Varies

ECE221 : Classroom Management: Skills and Strategies for Early Childhood Teachers

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)

Credits 3

Prerequisites

PSY201 or ECE110

Semester Offered

Fall

ECE230 : Practicum in Early Childhood Education Preschool

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)

Credits 6

Prerequisites

ECE105, ECE201, PSY201 and ECE200 or ECE202) and a minimum 2.0 GPA in ECE courses

Semester Offered

Fall
Spring

ECE242 : Selected Topics in Early Childhood Education

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.

Credits 1-3

Prerequisites

Any introductory-level social and/or behavioral science course

Semester Offered

Varies

Notes

1, 2, or 3 credits; may be repeated for credit; 3 credits maximum.

ECE290 : Administration of Early Childhood Programs

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 regulations, budgets, and other financial issues, legal issues, family communication, and staff issues (hiring, firing, supervision, turnover, training). Meets EEC requirements for Director I.

Credits 3

Prerequisites

ECE201 or ECE202 or ECE221 or ECE230 or ECE291

Semester Offered

Fall

Notes

Students should contact the Early Childhood Education Coordinator prior to registering for this course.

ECE291 : Leadership and Management in Early Childhood Education

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 EEC certification.

Credits 2

Prerequisites

ECE110 or PSY201

Semester Offered

Spring

Earth Science

ESC101 : Introduction to Earth Science

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)

Credits 4

Prerequisites

MAT030 or MAT035 and ENL108 or satisfactory basic skills assessment scores

Semester Offered

Fall
Spring

Notes

Satisfies a Natural or Physical Science general education requirement.

ESC105 : Fundamentals Of Oceanography

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)

Credits 4

Prerequisites

MAT030 or MAT035, ENL108 or ESL201 or satisfactory basic skills assessment score

Semester Offered

Fall
Spring
Summer

Notes

Satisfies a Natural or Physical Science general education requirement.

Economics

ECO117 : Principles of Macroeconomics

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.

Credits 3

Prerequisites

None

Semester Offered

Fall

Spring

Summer

Notes

Satisfies a Behavioral and Social Sciences general education requirement.

ECO118 : Principles of Microeconomics

This course covers 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.

Credits 3

Prerequisites

None

Semester Offered

Fall

Spring

Summer

Notes

Satisfies a Behavioral and Social Sciences general education requirement.

ECO119 : Investments

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 will enable the student to prepare for a career in finance, as well as to learn how to make rational decisions for personal investing.

Credits 3

Prerequisites

MAT030 or [MAT035](#)

ECO155 : Emerging Market Economies

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.

Credits 3

Prerequisites

None

Semester Offered

Fall

Spring

Notes

Satisfies a Behavioral and Social Sciences general education requirement.

ECO157 : Global Economics

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.

Credits 3

Prerequisites

None

Semester Offered

Spring

Notes

Satisfies a Behavioral and Social Sciences general education requirement.

ECO160 : Environmental and Natural Resources Economics

Environmental and Natural Resource Economics 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.

Credits 3

Prerequisites

None

Semester Offered

Fall

Education

EDU101 : Foundation of Education

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. A CORI (Criminal Offender Record Information) check and fingerprinting are required. Students pay the fingerprinting fee. Students sign a mandatory Acknowledgement of Risk and Consent Form.

Credits 3

Prerequisites

None. Co- [ENL108](#) or satisfactory basic skills requisite: assessment score

Semester Offered

Fall

Emergency Medical Services

EMS101 : Emergency Medical Technician: EMT

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 laboratory and clinical settings. Students are eligible for state and national certification upon successful completion of course and state examination.

Credits 5

Prerequisites

None

Semester Offered

Fall

Spring

EMS203 : Advanced Pre-Hospital Training Program: Paramedic I

Covers the roles and responsibilities of the Emergency Medical Technician (EMT) and Paramedic, including history and physical assessment, pathophysiology, management of shock, cardiac, respiratory, neurological, and abdominal emergencies. Class includes an overview of emergency medical services communication systems. Students must be currently certified as an EMT. Laboratory experience will be interjected throughout the semester to practice and demonstrate comprehension of didactic material.

Credits 10

Prerequisites

Valid and current National [ENL025](#) and MAT 025 Registry of Emergency Medical Technicians (NREMT) or Massachusetts (MA) EMT certification, or satisfactory basic skills assessment scores

Semester Offered

Fall

EMS204 : Advanced Pre-Hospital Training Program: Paramedic II

Students learn assessment and management of emergencies including obstetrics, gynecology, and trauma in pediatric, adolescent, adult, and geriatric populations. Laboratory experience is utilized to enhance didactic material.

Credits 10

Prerequisites

[EMS203](#) (Advanced Pre-Hospital Training Program: Paramedic I), valid and current National Registry of Emergency Medical Technicians (NREMT) or Massachusetts (MA) Emergency Medical Technician (EMT) certification

Semester Offered

Spring

EMS211 : Paramedic Clinical Experience

Clinical rotations provide opportunities for observation and practice of procedures, skills, and experiences. Skills and procedures in the clinical rotations are completed while working with preceptors in a variety of clinical settings including hospitals and other health care settings. The internship will be a minimum of 320 hours to a maximum of 400 hours to complete all required skills.

Credits 5

Prerequisites

[EMS203](#), [EMS204](#) and a valid and current National Registry of Emergency Medical Technicians (NREMT) or Massachusetts (MA) Emergency Medical Technician (EMT) certification

Semester Offered

Varies

EMS221 : Paramedic Capstone Field Internship

Students participate in a 50-hour field observation and minimal skill field internship, followed by a 200 hour capstone internship. Field and capstone internship provide an integration of didactic, lab and clinical skills; the internship utilizes learned skills from Paramedic I, Paramedic II and Clinical Internship with principles of emergency care, in the “field”.

Credits 4**Prerequisites**

EMS203,EMS204,EMS211 and a valid and current National Registry of EMT’s (NREMT) or Massachusetts (MA) Emergency Medical Technician (EMT) Certification

Semester Offered

Varies

Engineering

ENR101 : Introduction to Engineering and Advanced Manufacturing

Students are introduced to the world of engineering and manufacturing through activities that showcase how products are designed and built. Teams design, build, and test a weight-bearing structure, as-well-as reverse engineer a product to improve its design. Classroom and laboratory exercises are designed to expose the student to the different engineering and advanced manufacturing disciplines. Lab sessions provide hands-on exposure to the concepts discussed in the lecture sessions. This course does not require any prior engineering background.

Credits 4**Prerequisites**

MAT035orMAT041andENL108orESL201or

satisfactory
basic skills
assessment
scores

Semester Offered

Fall

Notes

Satisfies a General Education elective.

ENR103 : Introduction to Robotics

Students work in teams to design, build, program, and test increasingly complex electro-mechanical robots. The course teaches how robots move (locomotion and kinematics), how they sense (perception), and how they reason about their environment (planning). Students are exposed to robotics related career options in the manufacturing, service, and medical industries. Labs consist of extensive hands-on use of autonomous and industrial collaborative robots. This course does not require any prior engineering background. (3 class hours/2 laboratory hours).

Credits 4**Prerequisites**

MAT035orMAT041andENL108orESL201or

satisfactory
basic skills
assessment
scores

Semester Offered

Fall

Spring

Notes

Satisfies a General Education elective.

ENR105 : Circuit Theory & Analysis

This course begins a student’s preparation for a career in electronic, renewable energy, and related fields; it is also well structured for those interested in just expanding their background into the world of electronics. The course focus is on electrical circuit theory as well as analog and digital signal processing. Laboratory experiments are used to reinforce basic concepts and develop laboratory skills, as well as to provide system-level understanding. This course does not require any prior engineering background.

Credits 4**Prerequisites**

MAT035orMAT041andENL108orESL201or

satisfactory
basic skills
assessment
scores

Semester Offered

Varies

ENR106 : 3D Design & Analysis I

This introductory course explores careers in engineering, architecture, and design. Principles associated with 3D design, visualization, documentation, and product simulation are taught through hands-on use of Computer Aided Design (CAD) modeling software. In addition, student designed parts are fabricated using both additive (3D printing) and subtractive (CNC milling, laser cutting) techniques to enhance the understanding of the design to manufacturing process.

Credits 3**Prerequisites**

MAT035 or MAT041 and ENL108 or ESL201 or
satisfactory
basic skills
assessment
scores

Semester Offered

Fall

Notes

Satisfies a Natural or Physical Science general education requirement.

ENR107 : 3D Design & Analysis II

This is the second of a two course 3D mechanical design series for students interested in careers as product engineers, architects, and designers using computer aided design (CAD) software. This course prepares students for the Certified SolidWorks Associate Exam (CSWA) and the Certified SolidWorks Professional Exam (CSWP). A research paper that addresses an advanced topic in 3D solid modeling is required.

Credits 3**Prerequisite Courses**

ENR106: 3D Design & Analysis I

Semester Offered

Spring

ENR110 : Engineering and Scientific Computing

This course introduces students to the elements and practices of computer programming through the MATLAB computation and visualization environment. Assuming no prior background in computer programming, this course will enable one to write programs that solve problems involving the manipulation of numbers. Procedural and object-oriented programming techniques will be taught. Students will be required to complete numerous in-class examples and homework assignments. During the semester, other technical high-level programming languages (e.g., Python) will be introduced through lecture discussion.

Credits 3**Prerequisites**

MAT035 or MAT041 and ENL108 or ESL201 or
satisfactory
basic skills
assessment
score.
Students
need to have
a basic
knowledge of
the Windows
operating
system and
file
management.

Semester Offered

Varies

ENR121 : Smart Machines

Learn about exciting operations and assembly careers in modern manufacturing environments that use Industry 4.0 automation technologies. State of the art equipment as well as online virtual reality simulators are used to teach about factory floor automation equipment processes. The course prepares students for the Smart Automation Certification Alliance (SACA) C-101 and C-102 Associate Industry Certification exams.

Credits 3**Prerequisites**

ENL108 or ESL201 or satisfactory basic skills
assessment scores.

Semester Offered

Fall

Spring

ENR125 : Smart Factories

Master the Industry 4.0 automation skills needed to have a rewarding career in modern manufacturing environments that use Industrial Internet of Things (IIoT) technologies for data analytics and process optimization. State of the art equipment as well as online virtual reality simulators are used to teach about factory IIoT, networking equipment, and related data analytics. The course prepares student for the Smart Automation Certification Alliance (SACA) C-104 IIoT, Networking and Data Analytics Industry Certification exam.

Credits 3**Prerequisites**

[ENL108](#) or [ESL201](#) or satisfactory basic skills assessment scores.

Semester Offered

Fall
Spring

ENR201 : Statics

Students analyze the structural integrity of mechanical devices such as frames, trusses, beams and cable. Using vector algebra and calculus, understand how Newton's Laws can address engineering static equilibrium problems and master free body diagram construction. Vectors, dot and cross product, moment of a force, reduction of loadings to an equivalent force, construction of free body diagrams, calculation of reaction forces and moments for structures, static equilibrium loadings are among the topics covered.

Credits 3**Prerequisites**

[MAT240](#); co-requisite: [MAT250](#)

Semester Offered

Varies

ENR202 : Dynamics

Learn about the branch of applied mathematics concerned with the study of forces and torques, and their effect on motion. The course focuses on kinematics, vector descriptions of a point, vector equations related to velocity and acceleration, Newton's Law for a particle, angular velocity and acceleration, moment of inertia of a rigid body, parallel axis theorem, work/energy for a particle and a rigid body, and conservation of momentum and angular momentum.

Credits 3**Prerequisites**

[ENR201](#), [MAT250](#)

Semester Offered

Varies

ENR204 : Circuit Theory I

This is the first of two courses that begin a student's preparation for a career in electronics and related fields. The course is structured for those interested in expanding their background into the world of electronics. The course focus is on DC and transient electric circuit analysis, use of computer-based circuit simulation, and operational amplifier circuits. Laboratory experiments reinforce course concepts, develop laboratory and measurement skills, and provide system-level understanding.

Credits 4**Prerequisites**

[MAT250](#) and [ENL108](#) or [ESL201](#) or satisfactory basic skills assessment scores

Semester Offered

Fall

ENR205 : Circuit Theory II

This is the second of two courses that begin a student's preparation for a career in electronics and related fields. The course is structured for those interested in expanding their background into the world of electronics. The course focus is on AC and polyphase circuit analysis, Laplace and Fourier transforms, the s-Domain, and Bode diagrams.

Credits 4**Prerequisite Courses**

[ENR204: Circuit Theory I](#)

Semester Offered

Spring

ENR206 : Quality Manufacturing

Quality manufacturing is about a philosophy and set of strategies for reducing waste as well as the time required to go from customer order to delivery of a product, with higher quality, less cost, space, and inventory. Learn the techniques for identifying and removing waste within the engineering and manufacturing process as well as methods for improving the "flow" or smoothness of work through a manufacturing environment. As waste is eliminated, quality improves while production time and cost are reduced.

Credits 3**Prerequisite Courses**

[ENR101: Introduction to Engineering and Advanced Manufacturing](#)

Semester Offered

Varies

ENR207 : Materials Science

Materials science incorporates elements of physics, chemistry, and engineering and focuses on the structure, processing, and the characteristic limits of various materials. Study of materials science advances understanding of research areas such as nanotechnology, biomaterials, and metallurgy, forensic engineering and failure analysis. The course focuses on structure and characteristics of materials, material defects, testing and failure mechanisms of materials, applications of different materials, and the economic/environmental impact of various materials.

Credits 3**Prerequisite Courses**CHM151: [General Chemistry I](#)**Semester Offered**

Varies

ENR208 : Thermodynamics

Thermodynamics (a branch of physics) is a study of heat and temperature and their relation to energy and work. The laws of thermodynamics describe how fundamental physical quantities (temperature, energy, and entropy) behave under various circumstances. The course focuses on concepts of thermodynamics, the laws of thermodynamics, work, heat, energy, the Carnot Cycle, energy conservation, enthalpy, specific heat, efficiency, entropy, phase, phase change, heat engines, and heat transfer.

Credits 3**Prerequisites**

CHM151, MAT250

Semester Offered

Varies

ENR209 : Strength of Materials

The study of strength of materials shows the methods of calculating the stresses and strains in structural members such as beams, columns, and shafts. These methods predict the response of a structure when subjected to loading, as well as its susceptibility to various failure modes. The course focuses on types of stresses and strains, thermal effects on material strength, calculation of stresses and strains, normal stress in beams, shear/moment diagrams, and design of simple beams.

Credits 4**Prerequisite Courses**ENR201: [Statics](#)**Semester Offered**

Varies

English

ENL025 : Reading & Writing Essentials

This course provides students with foundation reading and writing skills in preparation for college-level coursework. Students learn strategies for reading non-fiction material, write basic academic essays, and begin the process of documenting sources.

Credits 3**Prerequisites**

None

Semester Offered

Fall

Spring

Summer

ENL100 : Reading and Reflection

In this course students read, discuss, interpret, and write reflectively about a novel or non-fiction book.

Credits 1**Prerequisites**

ENL010 or Reading Comprehension Score of 50 or higher

Semester Offered

Varies

Notes

May be repeated for up to 3 credits.

ENL101 : English Composition I

ENL101 is an introductory college composition course required of all AA and AS-degree 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 essays using a recognized scholarly documentation style.

Credits 3**Prerequisites**

Satisfactory [ENL108](#); or any [ENL025](#), [ESL201](#)
 basic skills of the [ENL050](#),
 assessment following or
 scores or a [ENL020](#),
 2.7 high
 school
 GPA; co-
 requisite

Semester Offered

Fall

Spring

Summer

Notes

Satisfies English Composition/Writing general education requirement.

ENL102 : English Composition II

A continuation of English Composition I, English Composition II focuses on close reading, critical thinking, independent research, and synthesis of texts so that, across the curriculum, students can develop, defend, and effectively express ideas in academic discourse.

Credits 3

Prerequisite Courses

[ENL101: English Composition I](#)

Semester Offered

Fall
Spring
Summer

Notes

Satisfies either an English Composition/Writing or Humanities and Fine Arts general education requirement.

ENL108 : Critical Reading and Thinking

This course guides students 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.

Credits 3

Prerequisites

[ENL025](#) or satisfactory basic skills assessment score

Semester Offered

Fall
Spring

Notes

Satisfies a Humanities & Fine Arts general education requirement.

ENL110 : Introduction to Literature

This course is an introduction to reading and analyzing fiction, poetry, creative non-fiction, and drama. Students respond critically to readings of different historical and cultural contexts through class discussion and written, evidence-based literary arguments.

Credits 3

Prerequisites

Satisfactory [ENL108](#); or any [ENL025](#), [ENL201](#) basic skills assessment of the following or scores or a [ENL050](#), or [ENL020](#), 2.7 high school GPA; co-requisite

Semester Offered

Spring

Notes

Satisfies a Humanities and Fine Arts general education requirement.

ENL120 : Introduction to Children's Literature

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.

Credits 3

Prerequisite Courses

[ENL101: English Composition I](#)

Semester Offered

Fall
Spring
Summer

Notes

Satisfies a Humanities and Fine Arts general education requirement.

ENL131 : Technical Writing

This course introduces students to technical and professional writing within a career setting. Students learn to write reports, instructions, summaries, e-mails, and memos using content and language appropriate to the reader. Students use technology tools to create document layout and design, and to report, interpret and organize statistical information and data.

Credits 3

Prerequisite Courses

[ENL101: English Composition I](#)

Semester Offered

Varies

Notes

Satisfies a Humanities & Fine Arts general education requirement.

ENL135 : The Short Story and Human Values

This course examines the ways in which short fiction reflects and shapes the human experience. Works examined feature a variety of cultural traditions, allowing students to consider which human values are universal and which may be culturally bound. Students examine the ways in which stories are used to preserve and challenge social institutions such as marriage/family, education, justice, and religion.

Credits 3

Prerequisite Courses

[ENL101: English Composition I](#)

Semester Offered

Spring

Notes

Satisfies a Humanities & Fine Arts general education requirement.

ENL150 : World Mythologies

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.

Credits 3

Prerequisite Courses

[ENL101: English Composition I](#)

Semester Offered

Spring
odd years

Notes

Satisfies a Humanities & Fine Arts general education requirement.

ENL161 : Journalism I

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.

Credits 3

Prerequisite Courses

[ENL101: English Composition I](#)

Semester Offered

Fall
Spring

Notes

Satisfies a Humanities and Fine Arts general education requirement.

ENL163 : Journalism II

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 learn to proofread, edit, and layout final copy for the

MainSheet

or other mass media.

Credits 3

Prerequisite Courses

[ENL161: Journalism I](#)

Semester Offered

Fall
Spring

ENL170 : Producing a Magazine of the Arts

This course is designed to help students sharpen their writing and editing skills as well as learn the nuts and bolts of the publishing process. In this course, students examine existing art publications and learn about arts publications from the twentieth and twenty-first centuries. This course allows students to collaborate on a practical, hands-on project resulting in a Student Media Board publication that will be circulated throughout the CCCC community and beyond.

Credits 3

Prerequisite Courses

[ENL101: English Composition I](#)

Semester Offered

Spring

Notes

Satisfies a Humanities and Fine Arts general education requirement.

ENL200 : Cape Cod Literature

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.

Credits 3

Prerequisites

[ENL102](#) or permission of instructor with submission of writing sample

Semester Offered

Varies

ENL201 : World Literature I: Early World Literature

Study the evolution of literature that has shaped world civilizations from the second millennium BCE through the mid-17th century. World Literature engages with literature from regions of the world other than Great Britain and the United States. Through texts, film screenings, and lectures, students will explore the narrative techniques of various forms of literature and learn how to connect modern works to their literary origins.

Credits 3

Prerequisite Courses

[ENL101: English Composition I](#)

Semester Offered

Varies

Notes

Satisfies a Humanities and Fine Arts general education requirement.

ENL202 : World Literature II: Literature from the Enlightenment to the Present

Study literature that has shaped world civilizations from the Enlightenment to the present. World Literature engages with literature from regions of the world other than Great Britain and the United States. Through texts, film screenings, lectures, and class discussions, students will explore the narrative techniques of various forms of literature and learn how to connect modern works to their literary origins with an emphasis on making cross-cultural influences.

Credits 3

Prerequisite Courses

[ENL101: English Composition I](#)

Semester Offered

Spring

Notes

Satisfies a Humanities and Fine Arts general education requirement.

ENL203 : British Literature I: The Medieval Period Through the Enlightenment

Visit the days of clashing swords and gallant knights. Experience the wit of the Elizabethan era. Discover the heady days of the Enlightenment, during which everything came into question.

Credits 3

Prerequisite Courses

[ENL101: English Composition I](#)

Semester Offered

Varies

Notes

Satisfies a Humanities and Fine Arts general education requirement.

ENL204 : British Literature II: From the Romantics to the Present Day

Learn about the romantics' love of nature, obsession with the macabre, and quest for individual genius. Discover how they inspired the Victorians, influenced the modernists, and remain a force to be reckoned with for British writers of diverse and dissenting voices today.

Credits 3

Prerequisite Courses

[ENL101: English Composition I](#)

Semester Offered

Spring

Notes

Satisfies a Humanities and Fine Arts general education requirement.

ENL205 : American Literature to 1890: The Emergence of American Literature

Learn how America's early writers--from a variety of perspectives--struggled to forge a distinctly American voice for a diverse, rowdy, and iconoclastic new nation.

Credits 3

Prerequisite Courses

[ENL101: English Composition I](#)

Semester Offered

Fall/even years

Notes

Satisfies a Humanities and Fine Arts general education requirement.

ENL206 : American Literature since 1890: Defining the American Identity

Discover how innovation became the defining trait of American identity and literature. Explore how diverse and dissenting perspectives on modern and contemporary American life gave rise to American drama, fiction, and poetry.

Credits 3

Prerequisite Courses

[ENL101: English Composition I](#)

Semester Offered

Fall/odd years

Notes

Satisfies a Humanities and Fine Arts general education requirement.

ENL207 : Shakespeare

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.

Credits 3

Prerequisite Courses

[ENL102: English Composition II](#)

Semester Offered

Varies

ENL209 : Creative Writing

An advanced workshop for students interested in creative writing. Students explore writing techniques in genres such as fiction, nonfiction, poetry, drama, and the building of a creative imagination.

Credits 3

Prerequisite Courses

[ENL102: English II Composition II](#)

Semester Offered

Fall

Spring

Notes

May be repeated once for credit. Satisfies a Humanities and Fine Arts general education requirement.

ENL210 : Exploring Modern Poetry

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.

Credits 3

Prerequisite Courses

[ENL102: English Composition II](#)

Semester Offered

Varies

Notes

Satisfies a Humanities and Fine Arts general education requirement.

ENL213 : Poetry Writing

This poetry writing workshop class provides serious students the opportunity to write poetry of their own and explore poetry through reading others' work. Students will write, read, peer edit/critique, present and listen to poetry.

Credits 3

Prerequisite Courses

[ENL102: English Composition II](#)

Semester Offered

Varies

ENL214 : The Contemporary Novel

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 about, and discuss a selection of novels written during the last fifty years.

Credits 3

Prerequisite Courses

[ENL102: English Composition II](#)

Semester Offered

Spring/odd

ENL215 : World Religions in Literature

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.

Credits 3

Prerequisite Courses

[ENL102: English Composition II](#)

Semester Offered

Varies

Notes

Satisfies a Humanities and Fine Arts general education requirement.

ENL216 : Advanced Research Report Writing

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.

Credits 3

Prerequisite Courses

[ENL102: English Composition II](#)

Semester Offered

Varies

ENL217 : Exploring the World of Science Fiction

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.

Credits 3

Prerequisite Courses

[ENL102: English Composition II](#)

Semester Offered

Spring/even

Notes

Satisfies a Humanities & Fine Arts general education requirement.

ENL218 : The Arthurian Legend

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.

Credits 3

Prerequisite Courses

[ENL102: English Composition II](#)

Semester Offered

Varies

ENL219 : Masters of Horror

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.

Credits 3

Prerequisite Courses

[ENL102: English Composition II](#)

Semester Offered

Fall/even

Notes

Satisfies a Humanities & Fine Arts general education requirement.

ENL228 : Women Writers

This course examines traditions and themes especially important in the development of fiction, nonfiction, poetry, and drama written by women, such as "Women Alone," "Women and Sexuality," "Women and Work," "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, offer a diverse range of authors, genres, styles, and cultures.

Credits 3**Prerequisite Courses**[ENL102: English Composition II](#)**Semester Offered**

Varies

Notes

Satisfies a Humanities & Fine Arts general education requirement.

ENL290 : Selected Topics in Literature

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 will include 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 will depend on the particular subject chosen for study.

Credits 3**Prerequisite Courses**[ENL102: English Composition II](#)**Semester Offered**

Varies

Notes

Satisfied a Humanities & Fine Arts general education requirement. May be repeated once for credit.

ENL291 : Selected Topics in Writing

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 will depend on the specialty chosen.

Credits 3**Prerequisite Courses**[ENL102: English Composition II](#)**Semester Offered**

Varies

Notes

Satisfies a Humanities & Fine Arts general education requirement. May be repeated once for credit.

English for Speakers of Other Languages/English for Academic Purposes (ESOL/EAP)

ESL010 : English for Speakers of Other Languages I: Basic

ESL010 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.

Credits 4**Prerequisites**

None

Semester Offered

Fall

Spring

Notes

4 non-degree credits

ESL100 : Academic Speaking and Listening for English Learners

This course is designed to help students who are learning English develop their listening and speaking skills for interactions in academic settings in an English-speaking college environment.

Credits 1**Prerequisites**

a CPT ESL listening test score of or greater than 40 or

[ESL010](#) or permission of the instructor

Semester Offered

Summer

ESL102 : English for Speakers of Other Languages II: Intermediate

This course is a continuation of [ESL010](#)

(ESL I) 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 standard college English works; ability to recognize and produce correct patterns in sentences and paragraphs; and the ability to combine paragraphs into correct and coherent compositions.

Credits 3

Prerequisites

[ESL010](#) or satisfactory basic skills assessment score

Semester Offered

Fall
Spring

ESL201 : English for Speakers of Other Languages III: Advanced

This course is a continuation of [ESL102](#)

(ESL II) and provides the advanced level non-native English speaker with instruction in reading, writing, and speaking, and understanding standard American English. Emphasis is placed on developing the ability to read and write essays from college-level English works; ability to produce short essays and coherent compositions; and the ability to discuss materials written at the college level.

Credits 3

Prerequisites

Grade of C or [ESL102](#) or satisfactory basic skills better in assessment score

Semester Offered

Fall
Spring

Entrepreneurship

ENT108 : Introduction to Entrepreneurship

This course 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.

Credits 3

Prerequisites

None

Semester Offered

Fall
Spring
Summer

Environmental Technology

ENV101 : Survey of Environmental Technology

A history of Environmental Technology is presented with emphasis on the current applications of the best available technology. The diverse environmental career opportunities are presented through field trips and guest speakers.

Credits 3

Prerequisites

None

Semester Offered

Fall
Spring

ENV115 : Environmental Chemistry

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.

Credits 3

Prerequisite Courses

[CHM106: Survey of Chemistry](#)

Semester Offered

Fall

ENV118 : Introduction to Environmental Science

A study of environmental interactions and the impact of humans on the environment. The use of natural resources, including land, air, water, mineral and biological resources, is examined. Local and global examples are 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 understand environmental problems. (3 class hours/2 laboratory hours)

Credits 4**Prerequisites**

MAT020/MAT025 or satisfactory basic skills assessment scores; ENL101
Co-requisite:

Semester Offered

Fall
Spring
Summer

Notes

Satisfies a Natural or Physical Science general education requirement.

ENV120 : Introduction to Environmental Science (Lecture Only)

A study of environmental interactions and the impact of humans on the environment. The use of natural resources, including land, air, water, mineral and biological resources, is examined. Local and global examples are presented to enable students to better understand and evaluate contemporary environmental problems and the application of science to their solution. Interdisciplinary knowledge is used to understand environmental problems. (3 class hours).

Credits 3**Prerequisites**

MAT020/MAT025 or satisfactory basic skills assessment scores; ENL101
Co-requisite:

Semester Offered

Fall
Spring
Summer

Notes

Satisfies a Natural or Physical Science general education requirement.

ENV125 : Coastal Ecology

This is an introduction to coastal marine habitats, their species, and their ecological relationships. Students develop an understanding of the diversity of living things along the Cape Cod shoreline. Students shall also examine the wide diversity of habitats and their differences on the Cape. This course includes extensive lab and field work.

Credits 3**Prerequisites**

None

Semester Offered

Fall
Spring
Summer

Notes

Satisfies a Natural or Physical Science general education requirement.

ENV127 : Projects in Coastal Ecology

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, nitrates), plant and animal surveys, and recording data to analyze in the classroom.

Credits 3**Prerequisite Courses**

[ENV118: Introduction to Environmental Science](#)
[ENV125: Coastal Ecology](#)

Semester Offered

Fall

ENV135 : Coastal Zone Management Laws and Regulations

This introductory course will cover 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 will be examined and several guest speakers will present.

Credits 3**Prerequisite Courses**

[ENV118: Introduction to Environmental Science](#)
[ENV125: Coastal Ecology](#)

Semester Offered

Spring

ENV158 : Occupational Health and Safety (OSHA) through Hazardous Waste Management

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 is awarded upon successful completion of this course.

Credits 3**Prerequisites**

None

Semester Offered

Spring

ENV163 : Geographic Information Systems (GIS) I

GIS I focuses on the designing and building of a map using a relational database. GIS is a computer science designed to capture, store, manipulate, analyze, manage, and present all types of spatial or geographical data, in the form of a map. In everyday use, it appears in forms such as Google Maps, GPS, weather forecasts, etc. Students are trained in using the computer programs ArcMap and ArcCatalog with an introduction to ArcGIS Online, in order to utilize spatial data to its fullest.

Credits 3**Prerequisites**

MAT020MAT025andENL108orESL201or

or satisfactory basic skills assessment score

Semester Offered

Fall

Spring

ENV165 : Renewable Energy, Climate & Careers

The implications of the energy enterprise, from global to individual perspectives, are explored by investigating basic energy/electricity concepts and the effects of technologies, policies, markets, and behaviors on the Earth's climate system, the environment, and national and personal security. First principles and practical potentials of renewable energy sources and low-carbon technologies are examined, as are career pathways supporting sustainable energy solutions. Case studies and experiments reinforce basic concepts, develop analytical skills, and provide system-level understanding.

Credits 3**Prerequisites**

MAT020MAT025andENL108orESL201or

or satisfactory basic skills assessment scores

Semester Offered

Fall

Notes

Satisfies a Natural or Physical Science general education requirement.

ENV171 : Energy Efficiency & Conservation Methods

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.

Credits 3**Prerequisites**

MAT020MAT025andENL108orESL201or

or satisfactory basic skills assessment scores

Semester Offered

Fall

ENV173 : Introduction to Solar Energy

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.

Credits 3**Prerequisites**

MAT020, MAT025 and ENL108 or ESL201 or
or satisfactory
basic skills
assessment
scores

Semester Offered

Spring

ENV177 : Introduction to Wind Energy

This course provides an in-depth introduction to wind power as a sustainable form of energy. It examines the history, current applications, and future of wind power. Students gain a basic understanding of the fundamental science behind harnessing useable energy from the wind. The course looks at the process for siting, developing, constructing, operating, and maintaining wind energy projects of different scales - from home and small commercial to municipal and utility scale.

Credits 3**Prerequisites**

MAT020, MAT025 and ENL108 or ESL201 or
or satisfactory
basic skills
assessment
score

Semester Offered

Spring

ENV201 : Environmental Instrumentation

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 bench work and field experiences. (1 class hour/4 laboratory hours)

Credits 4**Prerequisites**

ENV105, ENV115

Semester Offered

Spring

ENV260 : Environmental Technology Internship/Cooperative Experience

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 proscribed "analysis" papers as they progress during the course of the semester. Time commitment is based on the number of credits (70 hours per credit).

Credits 1-3**Prerequisites**

(ENV118 or ENV170) and permission of instructor

Semester Offered

Fall

Spring

Summer.

Experiential Learning

EXP101 : Experiential Learning Internship and Seminar

This course combines an internship experience, where students work in an industry/occupation of interest, with a seminar focusing on practices associated with successful job performance and career advancement. Students reflect upon their experience and examine their potential for career satisfaction and success through interest, skill, value and personality assessments. Students study workplace systems and gain an understanding of professional behaviors and communication practices. Students are responsible for securing placement; the Office of Career Services and Experiential Learning is available to assist with the process. Site placement typically requires 8-15 weeks of preparation; students should plan accordingly.

Credits 3-4**Prerequisites**

ENL101 and interview with instructor

Semester Offered

Fall

Spring

Summer

Notes

3 credits (100 hour internship) or 4 credits (150 hour internship)

Fire Science

FSC103 : Fire Fighting Tactics and Strategy

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 will be presented for analysis and study, consistent with accepted practices from authoritative sources. The concepts of I.C.S. and R.I.C. will be discussed throughout the class.

Credits 3

Prerequisites

FSC150 or FSC100

Semester Offered

Varies

FSC105 : Hazardous Materials

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.

Credits 3

Prerequisites

CHM106 or CHM101 or CHM109

Semester Offered

Varies

FSC107 : Hydraulics for the Fire Service

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.

Credits 3

Prerequisites

FSC150 or FSC100 and MAT035 or satisfactory basic skills assessment
MAT030 or score

Semester Offered

Varies

FSC108 : Fire Investigation and Evidence

This course will cover the methods used in determining the causes and circumstances of fire. The collecting and preserving of evidence will be covered; also, the preparation of evidence for court.

Credits 3

Prerequisites

FSC150 or FSC100

Semester Offered

Varies

FSC109 : Fire Department Management and Planning

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.

Credits 3

Prerequisites

FSC114

Semester Offered

Varies

FSC110 : Fire Code and Ordinances

This course will review the codes which influence the field of fire prevention including the fire prevention regulations of the Commonwealth of Massachusetts (527 CMR). Also included will be 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.

Credits 3

Prerequisites

None

Semester Offered

Varies

FSC114 : Fire Company Management

A study of scope and functions of the fire company officer in the fire department. Topics discussed include: the role of the fire service, departmental procedures, administrative and management procedures, training, public relations, tactics and strategy, and fire prevention.

Credits 3

Prerequisites

FSC150 or FSC100

Semester Offered

Varies

FSC115 : Introduction to Technical Rescue

The student will receive instruction in the basic concepts of technical rescue. An explanation of related equipment, regulations and procedures to supervise and conduct technical rescue operations will be explained.

Credits 3

Prerequisites

None

Semester Offered

Varies

FSC120 : Introduction to Incident Management

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.

Credits 3

Prerequisites

None

Semester Offered

Varies

FSC130 : Shipboard Firefighting

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 will be given a tour of a ship, during which time the systems will be explained and the shipboard firefighting problems discussed.

Credits 3

Prerequisites

None

Semester Offered

Varies

FSC150 : Principles of Emergency Services

This course provides an overview of fire protection and emergency services; career opportunities in fire protection related fields; culture and history of emergency services; fire loss analysis; organization and function of public and private fire protection services; fire departments as part of local government; laws and regulations affecting the fire service; fire service nomenclature; specific fire protection functions; basic fire chemistry and physics; introduction to fire protection systems, fire strategy, and tactics; and life safety initiatives.

Credits 3

Prerequisites

ENL108orESL201or satisfactory basic skills assessment score

Semester Offered

Varies

FSC151 : Fire Prevention

This course provides fundamental knowledge relating to the field of the fire prevention. Topics include history and philosophy of fire prevention, organizations and operation of a fire prevention bureau, use and application of codes and standards, plan review, fire inspections, fire and life safety education, and fire investigation.

Credits 3

Corequisites

FSC150or FSC100

Semester Offered

Varies

FSC152 : Fire Protection Systems

This course provides information relating to the features of design and operation of fire alarm systems, water based fire suppression systems, special hazard fire suppression systems, water supply for fire protection, and portable fire extinguishers.

Credits 3

Corequisites

FSC150or FSC100

Semester Offered

Varies

FSC153 : Building Construction for the Fire Protection

This course provides the components of building construction related to fire fighters and life safety. The elements of construction design of structures are shown to be key factors when inspecting buildings, preplanning fire operations, and operating at emergencies.

Credits 3

Corequisites

FSC150or FSC100

Semester Offered

Varies

FSC154 : Principles of Fire and Emergency Service Safety and Survival

This course introduces the basic principles and history related to the national firefighter life safety initiatives focusing on the need for cultural and behavioral change throughout the emergency services.

Credits 3

Prerequisites

FSC150 or FSC100

Semester Offered

Varies

FSC155 : Fire Behavior and Combustion

This course explores the theories and fundamentals of how and why fires start, spread and are controlled.

Credits 3

Corequisites

FSC150 or FSC100

Semester Offered

Varies

FSC200 : Special Topics in Fire Science

This course will serve to deepen student's knowledge of subjects in Fire Science introductory courses and explore timely issues outside the established curriculum.

Credits 1

Prerequisites

Any introductory level Fire Science course

Semester Offered

Varies

Notes

May be repeated for a maximum of 3 credits.

Fitness

FIT105 : Decision Making In Health

The course will examine 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 will include in-depth study and discussions in the areas of health as it affects people physiologically, psychologically and sociologically. It will assist the students in their beliefs, attitudes, and values toward their own personal health in a rapidly changing environment.

Credits 3

Prerequisites

None

Semester Offered

Varies

FIT115 : Fitness And Sports Nutrition

This course will provide 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, pre-/post- and competition meals.

Credits 3

Prerequisites

None

Semester Offered

Varies

FIT117 : Personal Fitness

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, skills and motivation necessary to meet this commitment.

Credits 3

Prerequisites

None

Semester Offered

Fall

Spring

FIT122 : Diet & Exercise

This course introduces students to the benefits of aerobic exercise and a well-balanced diet. Students are encouraged to continue an exercise regimen outside of class and incorporate principles of nutrition into their diets. Discussion about and participation in exercise are included. The student evaluates current personal fitness levels and identifies areas of needed improvement. Additionally, lifestyle habits such as food intake verses energy expenditure will be discussed to assist in setting diet and exercise goals.

Credits 1

Prerequisites

None

Semester Offered

Fall

Spring

FIT123 : Circuit Training

In this course students learn the benefits of circuit training as part of a well-rounded fitness regimen. Emphasis will be placed on circuit training fundamentals, safety, and proper form. Students will participate in physical exercise for aerobic conditioning and flexibility training.

Credits 1**Prerequisites**

None

Semester Offered

Fall

Spring

FIT133 : Lifeguard Training (LGT)

The course will afford students the opportunity to develop the knowledge and skills associated with safety, supervision and rescue in an aquatic environment. Emphasis will be 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.

Credits 3**Prerequisites**

None

Semester Offered

Fall

Spring

FIT142 : Survey of Lifetime Activities

The course will survey the fundamental skills, specific knowledge, and relative values of selected leisure sports. The course will focus 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 will include an introduction to participation in selected leisure sports, discussion of class activities and related leisure concepts, and small group and individual assignments.

Credits 3**Prerequisites**

None

Semester Offered

Varies

FIT164 : Pilates Mat I

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.

Credits 1**Prerequisites**

None

Semester Offered

Fall

Spring

FIT167 : Kripalu/Hatha Yoga I

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.

Credits 1**Prerequisites**

None

Semester Offered

Fall

Spring

FIT168 : Kripalu/Hatha Yoga II

A five-week course designed for the student who has completed

[FIT167](#)

. New postures will be introduced, and postures will be held for longer periods of time. Additional breathing techniques will be incorporated. Students will develop a deeper understanding of how the body functions, and how yoga affects these functions. Relaxation techniques will be further developed.

Credits 1**Prerequisite Courses**[FIT167: Kripalu/Hatha Yoga I](#)**Semester Offered**

Fall

Spring

FIT169 : Pilates Mat II

An eight-week course designed for the student who has completed

[FIT164](#)

Pilates Mat I (FIT 164-40 or FIT 164-41). This course will offer the natural progression to the intermediate/advanced Pilates exercises. The student will continue to focus on the importance of the breath and core stabilization. Additional focuses will be several stretching techniques and knowledge of the muscle groups that help promote proper posture.

Credits 1

Prerequisite Courses

[FIT164: Pilates Mat I](#)

Semester Offered

Fall

Spring

FIT170 : Adventure Concepts

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.

Credits 3

Prerequisites

None

Semester Offered

Fall

Spring

French

FRN100 : Conversational French

This conversational French course is designed to introduce the non-native speaker of French to 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.

Credits 3

Prerequisites

Satisfactory basic skills assessment score [ENL108](#) or co-requisite

Semester Offered

Varies

FRN101 : Elementary French I

The first semester of a two-semester college elementary French sequence 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.

Credits 4

Prerequisites

Satisfactory basic skills assessment score [ENL108](#) or co-requisite

Semester Offered

Fall

Notes

Satisfies a Humanities and Fine Arts general education requirement.

FRN102 : Elementary French II

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)

Credits 4

Prerequisites

[FRN101](#) or permission of the instructor

Semester Offered

Spring

Notes

Satisfies a Humanities and Fine Arts general education requirement.

FRN122 : Immersion Study in French

Students study French language and civilization in a Francophone country. Traditional class work is supplemented by cultural activities and field trips.

Credits 3

Prerequisites

None

Semester Offered

Spring

FRN201 : Intermediate French I

This course is for students who have completed one year of Elementary French or two years of high school French. Students will read, discuss, and write about francophone culture and language in French.

Credits 4

Prerequisites

[FRN102](#) or 2-4 years of high school French

Semester Offered

Fall

Notes

Satisfies a Humanities and Fine Arts general education requirement.

FRN202 : Intermediate French II

Intermediate French II is for students who have completed Intermediate French I or three to four years of high school French. Students will read, discuss and write about francophone culture and language in French. (5 class hours)

Credits 4

Prerequisites

[FRN201](#) or 3–4 years of high school French

Semester Offered

Spring

Notes

Satisfies a Humanities and Fine Arts general education requirement.

FRN301 : Advanced French: Survey of French Literature I

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.

Credits 3

Prerequisite Courses

[FRN202: Intermediate French II](#)

Semester Offered

Fall

FRN302 : Advanced French: Survey of French Literature II

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.

Credits 3

Prerequisite Courses

[FRN202: Intermediate French II](#)

Semester Offered

Spring

Funeral Service

FSR128 : Social Foundations of Funeral Service

This course introduces the history and evolution of the art and science of funeral service in North America. Students explore the relationship of social, religious, and spiritual beliefs, traditions, to funeral service practices and legal and ethical responsibilities of funeral service professionals.

Credits 3

Prerequisites

[ENL108](#) or satisfactory basic skills assessment score

Semester Offered

Fall

FSR129 : Funeral Directing I

This course focuses on the role of funeral service professionals including legal procedures and practices related to notification of death, transfer and disposition of bodies, arrangement conferences, procedures for fraternal, military and celebrity funerals, pre-planned funerals, and post-arrangement follow-up. Students apply basic knowledge of a cross-section of religious, spiritual, and ethnic heritage practices to planning funeral services.

Credits 3

Prerequisite Courses

[FSR128: Social Foundations of Funeral Service](#)

Semester Offered

Spring

FSR131 : Embalming I

This course introduces the history and scientific principles involved in the proper care of a dead human body and embalming procedures. Standard precautions to prevent exposure to biohazardous and chemical substances, public health standards, and provide the foundation of embalming practice. Students study standard operating procedures for instrumentation and equipment, case analysis, embalming site selection, [Chemical] Safety Data Sheet (SDS) maintenance and Occupational Safety and Health Administration (OSHA) regulations and implications for practitioner safety.

Credits 3

Prerequisite Courses

[BIO105: Survey: Human Anatomy & Physiology](#)

Semester Offered

Spring

FSR132 : Embalming Clinical

Students apply sanitary procedures, OSHA regulations, and Universal Precautions to the embalming process and maintenance of embalming preparation rooms. Students attend and document ten (10) embalming case reports at a funeral home approved by the instructor and program coordinator.

Credits 1

Prerequisites

[BIO105](#), co-requisite: [FSR131](#)

Semester Offered

Spring

FSR134 : Embalming Chemistry

Presents an introduction to general chemistry and biochemistry as applied to the embalming process. Essential characteristics of carbohydrates, lipids, and proteins are discussed. The biochemistry of decomposition and representative chemicals used by the embalmer and their characteristics and functions are discussed with special emphasis on the chemistry of preservation, disinfection and cosmetology.

Credits 3

Prerequisite Courses

[FSR131: Embalming I](#)

[FSR132: Embalming Clinical](#)

Semester Offered

Fall

FSR137 : Pathology for Funeral Service

This course introduces the history of pathology and the cellular and tissue changes which occur in disease. Emphasis is placed on the pathologies of the major body systems, using knowledge of anatomy and physiology. Emphasis is placed on recognizing various diseases as cause(s) of death and implications for practitioners throughout the embalming process.

Credits 3

Prerequisites

None. Co-Requisite:[BIO105](#)

Semester Offered

Spring

FSR140 : Funeral Directing II

This course, a continuation of [FSR129](#)

, emphasizes student participation in the design and implementation of general practices in funeral directing with a focus on effective verbal and written communication skills, ethical practice, and compliance with the Federal Trade Commission Funeral Rule (the Rule). Students will explore unconventional options and use of technology in funeral design. Students must complete observations of Five (5) different arrangement conferences and funerals representing a variety of faith and spiritual traditions.

Credits 3

Prerequisite Courses

[FSR129: Funeral Directing I](#)

Semester Offered

Spring

FSR150 : Sanitary Sciences

This course examines the pathology of cellular and tissue changes which accompany fatal diseases of the major anatomical systems as well as the microbial (physiology and immunology) environments relative to the practice of Funeral Service. Emphasis is placed on safety protocols, sanitation, disinfection, public health and embalming practice. The development and use of personal, professional and community hygiene and sanitation are examined.

Credits 4

Prerequisite Courses

[BIO105: Survey: Human Anatomy & Physiology](#)

Semester Offered

every other Fall

FSR209 : Funeral Service Merchandizing & Management

This course introduces the student to merchandizing as it applies to the funeral profession. The curriculum is divided into two main sections. The first covers construction and features of caskets, outer burial containers, and other funeral related products. The second section examines specific areas of funeral service and management guidelines.

Credits 3

Prerequisites

[BUS100](#),[FSR129](#)and[FSR140](#)

Semester Offered

Spring

FSR232 : Embalming II

Students in this advanced course use case studies to explore methods of injection, embalming chemicals, aspiration, and cavity treatment to embalm the so-called "usual" case. Preparation of autopsied cases and more unusual and difficult cases (advanced decomposition, gangrene, mutilation, edema) are explored using case studies. Students apply concepts of contagion, infection, and radiation to procedures for handling and preparation of human remains affected by these conditions.

Credits 3

Prerequisite Courses

[FSR131: Embalming I](#)

[FSR132: Embalming Clinical](#)

Semester Offered

Fall

FSR239 : Restorative Art

This course introduces the basic principles, terminology, and techniques of restorative art. Students develop beginning skills in the areas of facial reconstruction and the use of common mortuary cosmetics. The course prepares students for reconstruction of areas of the body that have been distorted by traumatic injury or disease. (3 lecture hours and 2 laboratory hours/week).

Credits 4**Prerequisite Courses**FSR232: [Embaling II](#)**Semester Offered**

Spring

FSR294 : Regulatory Compliance for Funeral Service

This course explores principles and practices of United States jurisprudence as applied to funeral service professional practice and business operations. Sources of law, legal status of the dead human body, duty of burial, right to control funeral arrangements, final disposition, liability for funeral expenses; torts involving the dead human body and the funeral director; wills, estate, and probate proceedings; cemeteries; state and federal laws and regulations pertaining to funeral service; and the legal duties of a licensed funeral director/embalmer are examined.

Credits 3**Prerequisite Courses**BUS120: [Business Law I](#)FSR129: [Funeral Directing I](#)**Semester Offered**

Spring

FSR298 : Board Certification and Competencies Skills

This pass/fail course is a review of the specific arts and sciences courses that will be tested on the National Board Examination (NBE). This course is designed to be completed during the final semester prior to graduation in order to review and reinforce the information covered in the entire Funeral Service Program curriculum.

Credits 2**Prerequisites**

Completion of or concurrent enrollment in all courses comprising the National Board Examination (All courses in the curriculum except developmental courses), or permission of the Funeral Service Program Coordinator.

Semester Offered

Spring

General IT

GIT101 : Typing I

Students learn to master the computer keyboard, develop speed and accuracy, and prepare basic business documents.

Credits 3**Prerequisites**

None

Semester Offered

Fall

Spring

GIT102 : Computer Keyboarding

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.

Credits 1**Prerequisites**

None

Semester Offered

Fall

Spring

Notes

Pass-Fail

GIT108 : Windows Operating Systems

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 of pointing devices.

Credits 1**Prerequisites**

ENL020 and ENL050 or satisfactory basic skills assessment score

Semester Offered

Fall

Spring

GIT110 : Computer Applications

This course focuses on the use of a Windows-based personal computer in various business settings. A lab/lecture environment is used to enable students to learn the Windows operating system and Microsoft Office for 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.

Credits 3**Prerequisites**

GIT101 or GIT102 or 30wpm

Semester Offered

Fall

Spring

Summer

Notes

Satisfies a General Education elective (Interdisciplinary Studies).

GIT125 : Microsoft® Excel for Business Applications

Students gain an advanced understanding of the Microsoft Excel environment by completing a variety of exercises designed to develop mastery of the principle features of Excel used in business. Students create, manage, and distribute professional workbooks for a variety of specialized purposes and situations as well as customize the Excel environment to meet project needs and to enhance productivity. This course covers the material for the Microsoft Office User Specialist Excel Expert exam.

Credits 3**Prerequisite Courses**

GIT110: Computer Applications

ACC100: Survey of Accounting

Semester Offered

Fall

Spring

GIT150 : Database Applications

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.

Credits 3**Prerequisites**

GIT108 or GIT110 or equivalent skill level in Windows

Semester Offered

Fall

Spring

GIT160 : Foundations of Gaming

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.

Credits 3**Prerequisites**

ENL108 or ESL201 and (MAT030 or MAT035)

Semester Offered

Fall

GIT180 : Introduction to the Internet

This course is designed to provide the student with both a theoretical and practical overview of the Internet. Students will be 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).

Credits 3**Prerequisites**

ENL108 or ESL201 or satisfactory basic skills assessment score

Semester Offered

Varies

GIT183 : Web Site Design and Scripting

In this hands-on, project-based course, students learn to do the following: create dynamic, media-rich web sites using a graphic user interface tool; design and prepare graphics for the web using Adobe Photoshop; and use Adobe Acrobat to produce and distribute documents over the web.

Credits 3**Prerequisite Courses**

GIT110: Computer Applications

Semester Offered

Fall

Spring

GIT184 : Web Authoring and Graphic Tools

Learn the basics of web site design including text formatting, graphics, animations, color, layout, linking. This project-based course requires the student to develop a well-designed web site using HTML, DHTML, and Javascript.

Credits 3**Prerequisite Courses**

GIT110: Computer Applications

Semester Offered

Fall

Spring

GIT220 : Advanced Word Processing Application

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.

Credits 3

Prerequisite Courses

[GIT110: Computer Applications](#)

Semester Offered

Spring

Geography

GEO104 : Geography: Culture and Environment

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.

Credits 3

Prerequisites

[ENL108](#) or [ESL201](#) or satisfactory basic skills assessment scores

Semester Offered

Spring

Notes

Satisfies a Behavioral & Social Sciences general education requirement.

German

GER100 : Conversational German

This basic conversational German course is designed to introduce the non-native speaker of German to the four basic skills necessary to developing a working knowledge of German: understanding, speaking, reading, and writing. The emphasis is on speaking and understanding spoken German.

Credits 3

Prerequisites

Satisfactory basic skills assessment score [ENL108](#) or co-requisite

Semester Offered

Fall

Spring

Summer

GER101 : Elementary German I

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.

Credits 4

Prerequisites

Satisfactory basic skills assessment score [ENL108](#) or co-requisite

Semester Offered

Fall

Notes

Satisfies a Humanities and Fine Arts general education requirement.

GER102 : Elementary German II

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.

Credits 4

Prerequisite Courses

[GER101: Elementary German I](#)

Semester Offered

Spring

Notes

Satisfies a Humanities and Fine Arts general education requirement.

GER126 : Austria: Vienna & Salzburg

This one-week study tour emphasizes the history, art, and culture of Austria in the early 1900s. Students come to understand the political and artistic dynamics of a world caught between the traditions and power of an old empire and the beginnings of the industrial era, which brought forth a new generation of artists who celebrated life in the Jugendstil form of art and architecture. Students must participate in all study tour activities.

Credits 3

Prerequisites

None

Semester Offered

Varies

GER201 : Intermediate German I

This course is for students who have completed one year of elementary college German or two to four years of high school German. Students will read, discuss, and write about German culture and language in German.

Credits 4

Prerequisites

[GER102](#) or 2–4 years of high school German

Semester Offered

Fall

Notes

Satisfies a Humanities and Fine Arts general education requirement.

GER202 : Intermediate German II

This course is for students who have completed Intermediate German I or three to four years of high school German. Students will 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 greeting 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.

Credits 4

Prerequisite Courses

[GER201: Intermediate German I](#)

Semester Offered

Spring

Notes

Satisfies a Humanities and Fine Arts general education requirement.

Health Sciences

HEA120 : Stress Management for Optimal Health

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, intra-personal, interpersonal, 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.

Credits 3

Prerequisites

None. [PSY101](#) recommended

Semester Offered

Fall

Spring

Notes

Satisfies an Interdisciplinary Studies general education requirement.

HEA130 : Standard First Aid and Basic Life Support (Cardiopulmonary Resuscitation)

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 health care 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.

Credits 1

Prerequisites

None

Semester Offered

Fall

Spring

HEA132 : Advanced First Aid & Emergency Care/Basic Life Support/First Responder

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.

Credits 3**Prerequisites**

None

Semester Offered

Fall

Spring

HEA134 : Essential Skills for the Health Professional

In this introductory course, students explore basic concepts surrounding career opportunities in the health professions while learning about and understanding the basic skills required for entry into a health career. Understanding one's role in a health career, making effective decisions to manage a personal career plan, assessing personal qualifications, interests, knowledge, values and skills necessary to succeed in a health career are key to this course. The student develops essential work habits desired by employers in the health care field.

Credits 1**Prerequisites**[ENL025](#) or satisfactory basic skills assessment scores**Semester Offered**

Fall

Spring

HEA135 : Introduction to Complementary Healing Practices

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 are discussed. The concept of "wellness" versus disease treatment, and the mind-body connection are explored.

Credits 3**Prerequisites**

None

Semester Offered

Fall

Spring

Summer

HEA200 : Pharmacology

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.

Credits 3**Prerequisites**Accepted into the [NUR107](#) and [BIO108](#) or Nursing program. Co-permission of the instructor
requisites:**Semester Offered**

Fall

Spring

Summer

HEA201 : Nutrition

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 patient; and food safety. An introductory course for individuals interested in pursuing a Dietetics major.

Credits 3**Prerequisite Courses**[BIO109: Survey of Biology](#)**Semester Offered**

Fall

Spring

Summer

HEA202 : Essentials of Pharmacology for Allied Health Professionals

This course provides instruction in concepts and application of pharmacological principles. Foci of the course will be on drug classifications, principles and procedures of medication administration, mathematical systems and conversions, calculation of drug problems and medical and legal responsibilities of the allied health professional.

Credits 2

Prerequisites

BIO105,BIT103

Semester Offered

Spring

History

HIS103 : U.S. History to 1865

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.

Credits 3

Prerequisites

ENL108orESL201or satisfactory basic skills
assessment score

Semester Offered

Fall

Spring

Summer

Notes

Satisfies a Behavioral and Social Sciences general education requirement.

HIS104 : U.S. History since 1865

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.

Credits 3

Prerequisites

ENL108orESL201or satisfactory basic skills
assessment score

Semester Offered

Fall

Spring

Summer

Notes

Satisfies a Behavioral and Social Sciences general education requirement.

HIS108 : The U.S. since 1945

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.

Credits 3

Prerequisites

ENL108orESL201or satisfactory basic skills
assessment scores

Semester Offered

Fall

Spring

Notes

Satisfies a Behavioral and Social Sciences general education requirement.

HIS119 : World History to 1500 CE

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 in 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.

Credits 3

Prerequisites

ENL108orESL201or satisfactory basic skills
assessment score

Semester Offered

Fall

Spring

Summer

Notes

Satisfies a Behavioral and Social Sciences general education requirement.

HIS120 : World History from 1500 CE

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 in 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.

Credits 3

Prerequisites

ENL108orESL201or satisfactory basic skills
assessment score

Semester Offered

Fall

Spring

Notes

Satisfies a Behavioral and Social Sciences general education requirement.

HIS160 : European History to 1600 CE

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.

Credits 3

Prerequisites

ENL108 or satisfactory basic skills assessment scores

Semester Offered

Fall

Spring

Summer

Notes

Satisfies a Behavioral and Social Sciences general education requirement.

HIS162 : European History from 1600 CE

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.

Credits 3

Prerequisites

ENL108 or satisfactory basic skills assessment scores

Semester Offered

Spring

Notes

Satisfies a Behavioral and Social Sciences general education requirement.

HIS170 : Study Abroad: History

This is a one-credit history course offered to study history where it happened. It is designed to increase understanding of key historic events but exploring the landscape against which they happened, following a planned itinerary while traveling with a local tour guide. The course is intended for any student curious about travel and history.

Credits 1

Prerequisites

None

Semester Offered

Spring

HIS201 : History of China

The course is a historical study of China's history and culture going back to the first Chinese dynasty through the Communist Revolution of 1949 and beyond. Students will examine the historical, economic, and social factors that developed Chinese civilization. The transformation of China from an Imperial State to a Communist Republic will be closely examined in order to gain a better appreciation of how contemporary Chinese view the world today, particularly the U.S. The course will also provide a foundation for the continued study of a broad range of Asian topics.

Credits 3

Prerequisites

ENL101 and a 100-level history course

Semester Offered

Varies

Notes

Satisfies a Behavioral and Social Sciences general education requirement.

HIS206 : Ancient History

This survey course covers 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.

Credits 3

Prerequisites

ENL101 and a 100-level history course

Semester Offered

Fall

Summer

Notes

Satisfies a Behavioral and Social Sciences general education requirement.

HIS207 : Medieval History

Students survey of 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.

Credits 3

Prerequisites

ENL101 and a 100-level history course

Semester Offered

Spring

Notes

Satisfies a Behavioral and Social Sciences general education requirement.

HIS215 : Women in United States History

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.

Credits 3

Prerequisites

ENL101 and a 100-level history course

Semester Offered

Spring

Notes

Satisfies a Behavioral and Social Sciences general education requirement.

HIS216 : History of Japan

The course is an historical study of Japan's history and culture from ancient times to the present. Students will examine the historical, economic, and social factors that developed Japanese civilization. The remarkable transformation of Japan from a feudal society led by an aristocratic class of samurai to a modern republic similar to modern 19th century Western nations will be closely analyzed. The course will also include close scrutiny of the events pushing Japan into WW II as well as Japan's dynamic post- WW II recovery, to include a significant economic boom. The course will provide a foundation for the continued study of Japan as well as a broad range of Asian topics.

Credits 3

Prerequisites

ENL101 and a 100-level history course

Semester Offered

Varies

Notes

Satisfies a Behavioral and Social Sciences general education requirement.

HIS217 : The Civil War

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.

Credits 3

Prerequisites

ENL101 and a 100-level history course

Semester Offered

Fall

Summer

Notes

Satisfies a Behavioral and Social Sciences general education requirement.

HIS228 : Women in European History

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.

Credits 3

Prerequisites

ENL101 and a 100-level history course

Semester Offered

Fall

Notes

Satisfies a Behavioral and Social Sciences general education requirement.

HIS241 : Selected Topics in History

This course serves as a vehicle to either deepen students' knowledge of subjects addressed in History introductory courses or explore issues outside the traditional curriculum.

Credits 3

Prerequisites

ENL101 and a 100-level history course

Semester Offered

Varies

Notes

Satisfies a Behavioral and Social Sciences general education requirement. May be repeated once for credit.

HIS255 : History of Vietnam

The course is a historical study of Vietnam with a specific focus on the U.S. involvement there during the Vietnam War. Students will study Vietnam's history and culture going back to ancient times and develop an understanding of the significant impact that both had in the U.S. involvement there.

Credits 3

Prerequisites

ENL101 and a 100-level history course

Semester Offered

Varies

Notes

Satisfies a Behavioral and Social Sciences general education requirement.

HIS258 : African American History

This survey course addresses African Americans in United States history, thought, and culture from slavery to the present. Topics addressed include slavery and emancipation, civil rights, religion, arts and literature, and gender.

Credits 3

Prerequisites

ENL101 and a 100-level history course

Semester Offered

Varies

Notes

Satisfies a Behavioral and Social Sciences general education requirement.

Homeland Security

HSC101 : Introduction to Homeland Security

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.

Credits 3

Prerequisites

ENL108 or ESL201 satisfactory basis skills assessment score

Semester Offered

Fall

HSC102 : Maritime Security

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.

Credits 3

Prerequisites

ENL108 or ESL201 or satisfactory basic skills HSC101 assessment. Co-requisite:

Semester Offered

Fall

HSC103 : Management of Incidents

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.

Credits 3

Prerequisite Courses

HSC101: Introduction to Homeland Security

Semester Offered

Spring

Honors

HON200 : Honors Colloquium

Honors students experience an interdisciplinary, team-taught colloquium on a current global issue. Students refine their research, writing, critical thinking, and collaborative learning skills as they investigate the complete research projects integrating their findings and present results to an audience. Presentation of Honors research in the Honors Colloquium is required at both the local Honors Reception and at the Annual Undergraduate Research Conference at the Commonwealth Honors College in Amherst.

Credits 3

Prerequisites

ENL101 and 3.20 GPA

Semester Offered

Varies

Notes

May be repeated once for credit.

Horticulture

HOR101 : Plant and Soil Science

This course provides an in-depth introduction to plant classification, anatomy, physiology, nutrition and reproduction. Chemical and physical properties of soil as well as the relationship between soils and plant growth are emphasized. (3 class hours/2 laboratory hours)

Credits 4

Prerequisites

MAT020 MAT025, ENL108 or ESL201 or satisfactory or basic skills assessment scores

Semester Offered

Fall

Spring

Notes

Satisfies a Natural or Physical Science general education requirement.

HOR102 : Entomology and Plant Diseases

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 is emphasized, regarding use of pesticides in controlling the various competition for plant health. Integrated plant management is the basis for control strategy.

Credits 3

Prerequisites

None

Semester Offered

Fall

HOR103 : Woody Plant Identification and Culture

The identification and culture of native and ornamental plants and shrubs are discussed. Plant requirements, characteristics and placement, as well as susceptibility to diseases and pests are reviewed. Methods of pruning, fertilizing and special needs are discussed.

Credits 3

Prerequisites

None

Semester Offered

Fall

HOR104 : Turf Management

An introduction to the establishment and maintenance of turf grass. Turf grass and weed identification, cultural practices and maintenance are included. Insect and disease life cycles and control are reviewed. Integrated pest management (IPM) is emphasized.

Credits 3

Prerequisites

None

Semester Offered

Fall

HOR105 : Equipment Maintenance and Operation

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.

Credits 3

Prerequisites

None

Semester Offered

Varies

HOR106 : Horticulture Practicum

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.

Credits 1

Prerequisites

Enrollment in an Horticulture certificate program.

Semester Offered

Fall

Spring

Summer

Notes

Pass-Fail

HOR107 : Floral Design

This course is an introduction to the identification, care, handling and designing of floral crops. It makes the student aware of the various business challenges of a retail florist operation and makes them capable of successfully dealing with those challenges. Emphasis is placed on preparing the student with the skills to work as a floral designer.

Credits 3

Prerequisites

None

Semester Offered

Varies

HOR201 : Herbaceous Plant Identification and Culture

The identification and culture of herbaceous annuals, perennials, groundcovers and vines are discussed. Students will review propagation, placement and pest vulnerability of herbaceous plants commonly used in the landscape.

Credits 3

Prerequisite Courses

[HOR101: Plant and Soil Science](#)

Semester Offered

Spring

HOR202 : Landscape Design and Construction

Introduction to landscape design including site analysis, estimation of costs of installation, selection of site furnishings, and construction of walks, steps and walls.

Credits 3

Prerequisite Courses

[HOR103: Woody Plant Identification and Culture](#)

Semester Offered

Spring

Hospitality Management

HRM111 : Foodservice Sanitation

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.

Credits 1

Prerequisites

None

Semester Offered

Fall

HRM130 : Food And Beverage Management

This course covers the essential of food and beverage controls. An awareness of management objectives is developed through the examination of organizational structures of food service. Students study specific topics such as menu pricing, break-even analysis, and cost-volume-profit theory. Emphasis is placed on forecasting and achieving profitability.

Credits 3

Prerequisites

(MAT020MAT025) ENL025 or satisfactory or and basic skills assessment score

Semester Offered

Spring

HRM140 : Introduction to Hospitality Management

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.

Credits 3

Prerequisites

ENL025 or satisfactory basic skills assessment score

Semester Offered

Fall

HRM170 : Casino Management

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.

Credits 3

Prerequisites

ENL025 or satisfactory basic skills assessment score

Semester Offered

Fall

HRM215 : Lodging Operations

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.

Credits 3

Prerequisite Courses

HRM140: Introduction to Hospitality Management

Semester Offered

Fall

HRM216 : Event Planning and Management

This course offers an introduction to the researching, planning, coordinating, marketing, management, implementation, and evaluation of special events. Through the study of relevant communication and management theory, as well as practical hands on experience, students will learn about the wide range of components that go into the execution of events of all sizes. Specific areas of study include food and beverage service, laws and permits, security, advertising and promotion, and logistics. Students may not earn credit for

COM216

Credits 3

Prerequisites

(COM103 or COM202) or (CUL150 or HRM140)

Semester Offered

Spring odd years

Notes

Satisfies a General Education Elective.

HRM230 : Hospitality Marketing

Marketing of the hospitality industry is studied through the exercise of strategic marketing planning. Understanding of the marketing concept and how it is applied to the mission statement, research techniques, situation analysis, positioning, and the tools of marketing.

Credits 3

Prerequisite Courses

HRM140: Introduction to Hospitality Management

ENL101: English Composition I

Semester Offered

Spring

HRM250 : Special Events & Operations Management

As the capstone course for HRM 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 will be responsible for revenue control and analysis. Group work, as a class and in individual specialized groups, emphasizes completing assigned tasks. Students will serve meals prepared in a restaurant setting during the course of the semester. (2 class hours/2 laboratory hours) Limited to HRM students.

Credits 3

Prerequisites

CUL150 or HRM140

Semester Offered

Spring

HRM262 : Hospitality Cooperative Work Experience

The core content of this course involves 300 hours of monitored field experience which is consistent with the student's career goals. Students will keep journals and write proscribed 'analysis' papers as they progress during the course of the semester.

Credits 3

Prerequisites

9 credits in CUL/HRM curriculum

Semester Offered

Fall

Spring

Summer

Human Services

HUS101 : Introduction to Human Services

This course gives an overview of the variety of human service career paths and theoretical approaches used in the field. History and current trends are examined as well as working with culturally diverse populations. Students are provided with a sampling of the skills, ethical values, and helping process used in the field. This course provides training for students to recognize the mental impact of the social and economic environment on clients.

Credits 3

Prerequisites

None

Semester Offered

Fall

Spring

Notes

Satisfies a Behavioral and Social Sciences general education requirement.

HUS104 : Introduction to Alcohol & Substance Abuse

Introduction to Alcohol and Substance Abuse 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.

Credits 3

Prerequisites

ENL108 or ESL201 or satisfactory basic skills assessment scores

Semester Offered

Fall

Spring

HUS206 : Human Services Practicum

The course establishes learning opportunities in the field of human services. Based on National Community Support Skill Standards students are required to spend 100 clinical hours in a human services agency. In addition, students participate in a weekly class to process clinical experiences; expand skills, including sensitivity, empathy, confrontation and problem-solving. The course also addresses goal setting, case management and client assessment. CORI/SORI required. By permission of Human Services Coordinator.

Credits 4

Prerequisites

ENL101, PSY101 and HUS101 or permission of HUS104 the Human Services Coordinator.
Co-requisite:

Semester Offered

Fall

Spring

Summer

HUS208 : Advanced Addictions Practicum

The class 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. One hundred (100) hours in a clinical setting are required. CORI/SORI required.

Credits 4**Prerequisites**

Permission of Human Services Coordinator; [HUS104](#), [PSY208](#), [HUS207](#),

Semester Offered

Varies

HUS229 : Introduction to Social Welfare

This course includes an analysis of the conceptions of social work, social welfare and social service delivery systems from both historical and contemporary perspectives. This course includes critical examination of 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.

Credits 3**Prerequisites**

[HUS101](#)and[PSY101](#)or[SOC106](#)

Semester Offered

Varies

HUS230 : Mental Health, Substance Abuse & Families

Mental Health, Substance Abuse, and Families 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.

Credits 3**Prerequisites**

([PSY101](#)or[SOC106](#)) [HUS101](#); Co-requisite: [HUS229](#) and

Semester Offered

Spring

HUS231 : Treatment Modalities in Human Services

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 class 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 addiction. Service learning is used for experiential learning.

Credits 3**Prerequisites**

[PSY101](#)and[HUS101](#); Co-requisite:[HUS229](#)

Semester Offered

Spring

Fall

HUS232 : Introduction to Addictions Practicum

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. One hundred (100) hours in a clinical setting are required. CORI/SORI required.

Credits 4**Prerequisites**

By [HUS206](#); co-requisite: [HUS229](#)and[PSY209](#)

permission of Human Services Coordinator and

Semester Offered

Varies

HUS270 : Social Work: Diversity, Cultural Competence & Social Justice

This course introduces the student to the life-long learning process of developing culturally competent social work/human services practice and addresses issues of power and privilege.

Working with diverse groups that include; ethnicity, race, gender, sexual orientation, citizenship status, gender identity, socio-economic level, age, and faith will be explored. Emphasis will be placed on developing skills for culturally competent practice through self-reflection, experiential learning, and critical analysis of privilege and social inequalities.

Credits 3

Prerequisites

[ENL102](#); Co-requisite:[HUS229](#)

Semester Offered

Varies

Humanities

HUM102 : Humanities: Perception through Arts

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.

Credits 3

Prerequisite Courses

[ENL101: English Composition I](#)

Semester Offered

Spring

Notes

Satisfies a Humanities and Fine Arts general education requirement.

Interdisciplinary Studies

COL101 : The College Experience

This theme-based seminar is designed to help students develop the skills and confidence necessary to succeed in college, the world of work, and life. In this course, students will examine theories and practices associated with academic success. Areas of study include education and career planning, study skills, effective communication, critical and creative thinking, information literacy, personal management, development of community and awareness of diversity, technology, and leadership. Modeled on the "workshop format" in which students learn by doing, students will be actively engaged in group activities and team projects.

Credits 3

Prerequisites

[ENL025](#) or satisfactory basic skills assessment score

Semester Offered

Fall

Spring

Summer

Notes

Satisfies a General Education elective.

Italian

ITL100 : Conversational Italian

This basic conversational Italian course is designed to introduce the non-native speaker of Italian to 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.

Credits 3

Prerequisites

Satisfactory basic skills assessment score [ENL108](#) or co-requisite

Semester Offered

Fall

Spring

ITL122 : Immersion Study in Italian Language/ Civilization

Students study Italian language and civilization in an Italian speaking country. Forty hours of traditional class work is supplemented by cultural activities and field trips.

Credits 3

Prerequisites

None

Semester Offered

Varies

ITL125 : Conversational Italian II

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.

Credits 3

Prerequisite Courses

[ITL100: Conversational Italian](#)

Semester Offered

Spring

Latin

LAT100 : Introduction to Latin

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.

Credits 3

Prerequisites

Satisfactory basic skills assessment score [ENL108](#) or co-requisite

Semester Offered

Fall
Spring

Marketing

MKT100 : Marketing

This course focuses on the basic principles, problems, and practices in marketing. Students learn marketing strategies, design of marketing mixes, and market planning in a changing environment.

Credits 3

Prerequisites

[ENL108](#) or [ESL201](#) or satisfactory basic skills assessment

Semester Offered

Fall
Spring
Summer

Mathematics

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MAT010 : Fundamental Arithmetic

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. (This course does not satisfy the mathematics general education requirement.)

Credits 3

Prerequisites

None. Recommendation by basic skills assessment score.

Semester Offered

Fall
Spring
Summer

Notes

Letter grade or Pass-Fail.

MAT025 : Pre-Algebra

A fundamental course in prerequisite algebraic topics designed to help prepare students for the study of introductory algebra and its applications. Topics include: introduction to, operation with, and application of whole numbers, integers, fractions, and decimals; exponentiation, rooting, order of operations, ratios, rates, proportions, unit conversions, percents and their applications; an introduction to algebraic expressions and equations, applications of algebraic expressions and equations, geometry, and measurement. (5 contact hours)

Credits 3

Prerequisites

[MAT010](#) or satisfactory basic skills assessment score

Semester Offered

Fall
Spring
Summer

MAT035 : Algebra for Non-STEM

An algebra course designed to prepare students for college-level non-STEM math courses, address the quantitative needs of other disciplines, and develop quantitative reasoning skills for citizenship and workplace. Concepts are introduced through meaningful applications and in-class activities. Topics include proportional reasoning, scientific notation, creating and interpreting tables and graphs, solving linear and quadratic equations algebraically, solving systems of linear equations, linear and non-linear functions, and creating mathematical models of real-world problems using technology. (5 contact hours)

Credits 3**Prerequisites**

[MAT025](#) or satisfactory basic skills assessment score

Semester Offered

Fall
Spring
Summer

MAT041 : Elementary Algebra for STEM

This course introduces the basic concepts in algebra necessary for students who plan to take intermediate algebra for STEM (Science, Technology, Engineering, and Mathematics). Topics include: properties and operations on real numbers, linear equations, interval notations, inequalities, absolute value, graphing, function notations, linear systems, exponents, polynomials, factoring and word problem analysis. (4 contact hours)

Credits 3**Prerequisites**

[MAT025](#) or satisfactory basic skills assessment score

Semester Offered

Fall
Spring
Summer

MAT045 : Intermediate Algebra for STEM

This developmental course prepares students for College Algebra, which is essential to the Natural Sciences, Technology, Engineering, and Mathematics curriculum. Topics include: graphing, polynomials, factoring, rational expressions, rational exponents, quadratic equations, variation, conic sections, functions, and logarithms. Development of problem solving skills is emphasized throughout the course. (5 contact hours)

Credits 3**Prerequisites**

([MAT030](#)[MAT041](#)) or satisfactory basic skills or assessment score

Semester Offered

Fall
Spring
Summer

MAT120 : Mathematics for Elementary & Early Childhood Educators I

This course is designed for students planning to teach Elementary and/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.

Credits 3**Prerequisites**

[MAT035](#) or [MAT045](#) or [ECE100](#) or [EDU101](#)
satisfactory basic skills assessment score and

Semester Offered

Fall

MAT121 : Mathematics for Elementary & Early Childhood Educators II

This course is designed for students planning to teach Elementary and/or Early Childhood Education. Students develop an understanding of the mathematical content of geometry, measurement, statistics, and probability at the deep level required for successful early childhood and elementary school teaching in ways that are meaningful to pre-service elementary and early childhood educators. Topics include: Two- and three-dimensional Geometry; Measurement; Data Analysis; Single Variable Statistics; Probability.

Credits 3**Prerequisite Courses**

[MAT120: Mathematics for Elementary & Early Childhood Educators I](#)

Semester Offered

Spring

Notes

Satisfies a Mathematics/Quantitative Reasoning general education requirement.

MAT130 : Quantitative Reasoning

This course explores connections between mathematics and various aspects of modern life. Topics in this course include logic, unit analysis, percentages, personal finance, statistics, probability, linear and exponential growth, mathematical modeling, and geometry.

Credits 3**Prerequisites**

MAT035 or MAT045 or satisfactory basic skills assessment score

Semester Offered

Fall
Spring

Notes

Satisfies a Mathematics & Quantitative Reasoning general education requirement.

MAT150 : Elementary Statistics

Students are introduced to descriptive and inferential statistics focusing on conceptual understanding and statistical literacy. Topics include: techniques for organizing and presenting data, measures of central tendency and dispersion, probability, discrete and continuous probability distributions, sampling distributions, estimation, one- sample hypothesis tests, and correlation and regression.

Credits 3**Prerequisites**

MAT035 or MAT045 and ENL108 or ESL201 or satisfactory basic skills assessment score

Semester Offered

Fall
Spring
Summer

Notes

Satisfies a Mathematics/Quantitative Reasoning general education requirement.

MAT165 : Finite Mathematics

An introduction to selected applications of mathematics in business, management, social sciences, and economics. Topics include: descriptive statistics, graphing of functions, simple and compound interest, functions and their applications, probability and elements of mathematical modeling using first and second degree polynomials. The course is designed for students in career programs. (4 contact hours)

Credits 3**Prerequisites**

MAT035 or MAT045 or satisfactory basic skills assessment score

Semester Offered

Fall
Spring

Notes

Satisfies a Mathematics/Quantitative Reasoning general education requirement.

MAT175 : College Algebra

This is an entry-level mathematics course for students interested in a STEM track. Topics include: domain and range, piecewise functions, complex numbers, quadratic inequalities, graphs of polynomial and rational functions, fundamental theorem of algebra, transformations of graphs, inverse functions, solving exponential and logarithmic equations, Gaussian elimination, and translations of conics. Critical thinking and problem solving skills are emphasized throughout the course. This course prepares students for Precalculus with Trigonometry or Applied Calculus. (5 contact hours)

Credits 4**Prerequisites**

MAT045 or satisfactory basic skills assessment score

Semester Offered

Fall
Spring
Summer

Notes

Satisfies a Mathematics/Quantitative Reasoning general education requirement.

MAT180 : Applied Calculus

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.

Credits 3**Prerequisites**

A grade of C- MAT175 or satisfactory basic skills assessment score

Semester Offered

Fall
Spring

MAT195 : Precalculus with Trigonometry

Targeting students in Mathematics, Engineering, and Physical Sciences, this course provides the foundation necessary for a rigorous study of calculus. It covers non-linear inequalities, functions, and graphs. The primary focus is on polynomial, rational, exponential, logarithmic, and trigonometric functions. Applications are also discussed extensively. Additional topics may include analytic geometry with an emphasis on the conic sections, Gibbs notation vector algebra, polar coordinates, sequences, series, and mathematical induction. (5 contact hours)

Credits 4**Prerequisites**

C- or MAT175 or satisfactory basic skills assessment score

Semester Offered

Fall
Spring
Summer

MAT220 : Discrete Mathematics & Introduction to Proofs

This introductory course is designed for prospective mathematics and computer science majors. It covers basic techniques of mathematical proof and reasoning, with an emphasis on discrete structures as well as concepts widely used in computing. Topics include set theory, functions, relations, proposition logic, methods of proof, mathematical induction, recursion, and Boolean algebra. Additional topics in discrete mathematics will be selected from number theory, combinatorics, graph theory, and finite state automata.

Credits 4

Prerequisites

C- or [MAT180](#) or [MAT195](#) or satisfactory basic skills assessment score in

Semester Offered

Spring

Notes

Satisfies a Mathematics/Quantitative Reasoning general education requirement.

MAT240 : Calculus I

This calculus course is designed for engineering, natural sciences, computer science, and mathematics majors. Topics include limits, continuity, derivatives, integrals, the fundamental theorem, applications on curve sketching, optimization, areas and volumes, differentiation and integration (up to substitution) involving trigonometric, inverse trigonometric, logarithmic, and exponential functions.

Credits 4

Prerequisites

MAT190 [MAT195](#) or satisfactory basic skills or assessment score

Semester Offered

Fall

Spring

Summer

Notes

Satisfies a Mathematics/Quantitative Reasoning general education requirement.

MAT245 : Linear Algebra

A first course in the study and analysis of linear systems and their applications in mathematics, engineering, computer science, business, economics, and other fields involving large multi-variate models of real world phenomena. Topics include: matrices, determinants, vectors in 2-dimensional space and 3-dimensional space, vector spaces, independence, basis, rank, linear transformations with matrix representation, eigenvalues and eigenvectors, applications to differential equations.

Credits 3

Prerequisites

A grade of C- or higher in [MAT240](#) or [MAT180](#)

Semester Offered

Fall

MAT250 : Calculus II

Continuation of

[MAT240](#)

Calculus I. Topics include calculus of exponential, logarithmic, and trigonometric functions; techniques of integration, moments and centroids; indeterminate forms and improper integrals; Taylor's formula; and infinite series.

Credits 4

Prerequisites

C- or higher in [MAT240](#)

Semester Offered

Fall

Spring

Summer

MAT260 : Calculus III

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.

Credits 4

Prerequisites

Prerequisite: C- or higher in [MAT250](#)

Semester Offered

Fall

Spring

MAT270 : Differential Equations

This introductory course in ordinary differential equations is designed for students majoring in mathematics, natural sciences, or engineering. Topics include first order differential equations, linear second order differential equations, Laplace transforms, and planar systems. Emphases are given to analytic methods, existence and uniqueness of solutions, and modeling.

Credits 3

Prerequisites

A grade of C- or higher in [MAT250](#)

Semester Offered

Spring

Medical Assisting

MAC101 : Fundamentals of Medical Assisting

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, credentialing requirements. They will 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 within one calendar year of admission to the program.

Credits 3

Prerequisites

BIT103&BIO105

Semester Offered

Fall

MAC204 : Medical Assisting Clinical Procedures and Clinical Practicum

This seven-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, clinical practicum, and seminar.

Credits 7

Prerequisites

A grade of C or higher in MAC101, BIT103 and BIO105; Co-requisite: MAC205

Semester Offered

Spring

MAC205 : The Administrative Medical Assistant

This course prepares students to perform the administrative functions of a medical assistant. Course topics include 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, meet CAAHEP/MAERB required administrative competencies, and explore ethical/legal issues in modern medicine.

Credits 3

Prerequisites

MAC101; co-requisite: MAC204. Enrollment in the Medical Assisting Program.

Semester Offered

Spring

Medical Interpreter

MIN101 : Medical Interpreter I

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. Students may repeat this course to be qualified in another language if desired.

Credits 3

Prerequisites

Satisfactory basic skills assessment score or

ESL201 and target language assessment conducted in the first class session

Semester Offered

Varies

MIN102 : Medical Interpreter II

This course is designed for individuals who are bilingual in English and Spanish or English and Portuguese continuing the study of medical interpreter practice and for experienced medical interpreters. The focus is on necessary advanced competency skills, written translation, and vocabulary. Students may repeat this course to be qualified in another language if desired.

Credits 3

Prerequisites

BIT103 and MIN101 with a grade of C or higher

Semester Offered

Varies

MIN200 : Medical Interpreter Practicum

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 *

. Students may repeat this course to be qualified in another language if desired.

Credits 3

Prerequisites

MIN102; Co-requisite: BIO105

Semester Offered

Varies

Notes

*Please see the CORI/SORI policy

Music

MUS100 : Music Appreciation

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. For students not planning to major in music; no previous musical training required.

Credits 3

Prerequisites

ENL025 or satisfactory basic skills assessment score

Semester Offered

Fall

Spring

Notes

Satisfies a Humanities and Fine Arts general education requirement.

MUS101 : Music Theory I

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.

Credits 3

Prerequisites

ENL025 or satisfactory basic skills assessment scores

Semester Offered

Fall

Notes

Satisfies a Humanities & Fine Arts general education requirement.

MUS102 : Music History I

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 are explored through structured listening, analysis, and reading assignments.

Credits 3

Prerequisites

ENL025 or satisfactory basic skills assessment score

Semester Offered

Fall/even

Notes

Satisfies a Humanities & Fine Arts general education requirement.

MUS103 : Music History II

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.

Credits 3

Prerequisites

ENL025 or satisfactory basic skills assessment score

Semester Offered

Spring/odd

Notes

Satisfies a Humanities & Fine Arts general education requirement.

MUS116 : History of Rock Music

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.

Credits 3

Prerequisites

ENL025 or satisfactory basic skills assessment scores

Semester Offered

Fall

Spring

Notes

Satisfies a Humanities and Fine Arts general education requirement.

MUS120 : Applied Music

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. Students enrolling in MUS120 must contact the department to be assigned to an instructor.

Credits 1

Prerequisites

None

Semester Offered

Fall

Spring

Summer

Notes

May be repeated; 6 credit maximum.

MUS121 : Advanced Applied Music

This course provides private instruction in vocal or instrumental music appropriate to the level of the student. (15 one-hour tutorial lessons) There is an Applied Music charge.

Credits 2

Prerequisites

None

Semester Offered

Fall

Spring

Summer

Notes

May be repeated; 6 credit maximum.

MUS122 : Beginning Guitar

Students study, rehearse, and perform music in a small group setting. Emphasis is placed on learning to read standard musical notation, with attention also given to chords. Performances on campus and in the immediate community are part of class activities. Students are expected to provide their own guitar.

Credits 1

Prerequisites

None

Semester Offered

Spring (Quick Term 1)

MUS123 : Jazz Combo

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.)

Credits 1

Prerequisites

[MUS101](#) or ability to read from standard musical notation

Semester Offered

Fall

Spring

Notes

May be repeated; 6 credit maximum.

MUS124 : Guitar II

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.

Credits 1

Prerequisites

[MUS122](#) or permission of the instructor

Semester Offered

Spring (Quick Term 2)

Notes

May be repeated up to a maximum of 6 credits.

MUS126 : Beginning Piano

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.

Credits 1

Prerequisites

None

Semester Offered

Fall (Quick Term 1)

MUS127 : Piano II

This is a continuation of the [MUS126](#)

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.

Credits 1

Prerequisite Courses

[MUS126: Beginning Piano](#)

Semester Offered

Fall (Quick Term 2)

Notes

May be repeated to a maximum of 6 credits.

MUS202 : Music Theory II

This course expands on the content covered in [MUS101](#)

. Students explore complex triads and seventh chords, the logic behind chord progressions, part-writing techniques for both vocal and instrumental arrangements, and melodic embellishing tones. Students' ear training expands to include diatonic chord progressions and descending intervals within the octave.

Credits 3

Prerequisite Courses

[MUS101: Music Theory I](#)

Semester Offered

Spring

Notes

Satisfies a Humanities & Fine Arts general education requirement.

Nursing

NUR101 : Dosage Calculations

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 measurement are included. Introduces dimensional analysis to convert and calculate dosages of oral, parenteral, and intravenous medications.

Credits 1

Prerequisites

[MAT030](#)[MAT035](#) or satisfactory basic skills assessment score, [NUR107](#) and admitted to the Nursing Program; co-requisite to

Semester Offered

Fall

Summer

NUR107 : Fundamentals of Nursing

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.

Credits 8

Prerequisites

Admission [BIO109](#),[BIO251](#),[ENL101](#),[ENL102](#),[PSY101](#); Co-requisite:

to the

College and

Nursing

Program.

Current

Basic Life

Support

(BLS)

certification

in cardio-

pulmonary

resuscitation

(CPR) for

Health Care

Providers.

NUR108 : Nursing across the Lifespan

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)

Credits 8

Prerequisites

[NUR107](#) and [BIO252](#).

Semester Offered

Spring

NUR132 : LPN in Transition

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)

Credits 8

Prerequisites

Admission [ENL101,ENL102,PSY101,PSY233,BIO251,BIO252,NUR101](#).

to the College and to the Nursing Program. Current licensure as a Licensed Practical Nurse; Current Basic Life Support (BLS) certification in CPR certification for Health Care Providers.

Semester Offered

Summer

NUR201 : Physical and Mental Health I

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)

Credits 10

Prerequisites

[NUR108](#)or[NUR132](#)and current Basic Life Support (BLS) certification in cardio-pulmonary resuscitation (CPR) for Health Care Providers.

Semester Offered

Fall

NUR202 : Physical and Mental Health II

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)

Credits 8

Prerequisites

[NUR201,HEA200,BIO281](#); Co-requisite:[NUR203](#)

Semester Offered

Spring

NUR203 : Foundations of the Profession

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.

Credits 3

Prerequisites

[NUR201,HEA200](#); Co-requisite:[NUR202](#)

Semester Offered

Spring

Nursing Assistant

CNA113 : Advanced Rehabilitation Nursing Assistant

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.

Credits 1

Prerequisites

Documentation of at least a 75-hour nursing assistant and/or home health aide course

Semester Offered

Varies

CNA114 : Effective Strategies for Working with Alzheimer's Patients

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.

Credits 1

Prerequisites

None

Semester Offered

Varies

CNA117 : Tri-Level Nursing Assistant/Home Health Aide

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.

Credits 6

Prerequisites

None

Semester Offered

Fall

Spring

CNA122 : Advanced Concepts for Nursing Assistants

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.

Credits 1

Prerequisites

CNA117 or permission of the instructor

Semester Offered

Varies

CNA128 : Pediatrics and Parenting

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 care providers.

Credits 3

Prerequisites

CNA117 or permission of the instructor

Semester Offered

Varies

CNA138 : Rehabilitation/Restorative Aide

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.

Credits 3

Prerequisites

High school diploma or GED and documented completion of at least a 75-hour nursing assistant or home health aide course

Semester Offered

Varies

Paralegal

LGS130 : Introduction to Substantive Law

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.

Credits 3

Prerequisites

None

Semester Offered

Fall

LGS131 : Family Law

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.

Credits 3

Prerequisites

LGS130/BIT130

Semester Offered

Fall (even years)

LGS132 : Law Office Management

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.

Credits 1

Prerequisites

LGS130/BIT130

Semester Offered

Spring

LGS133 : Legal Research and Writing

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.

Credits 3**Prerequisites**

LGS130/BIT130, ENL101 and two of the following:
(LGS131/BIT131, LGS134/BIT134, LGS135/BIT135, LGS136/BIT136, LGS137/BIT137)

Semester Offered

Spring

LGS134 : Real Estate, Mortgages and Landlord-Tenant Law

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.

Credits 3**Prerequisites**

LGS130/BIT130

Semester Offered

Spring (odd years)

LGS135 : Civil Litigation

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.

Credits 3**Prerequisites**

LGS130/BIT130

Semester Offered

Fall

LGS136 : Estate Planning, Wills, Trusts and Probate Procedures

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 will study the tax consequences involved.

Credits 3**Prerequisites**

LGS130/BIT130

Semester Offered

Spring (even years)

LGS137 : Contracts, Business Organizations and Transactions

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, partnership, limited liability entities, and corporations.

Credits 3**Prerequisites**

LGS130/BIT130, LGS137/BIT137

Semester Offered

Fall (odd years)

LGS138 : Criminal Law and Procedure

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.

Credits 3**Prerequisites**

LGS130/BIT130

Semester Offered

Fall

LGS238 : Internships Paralegal Studies

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.

Credits 3**Prerequisites**

LGS130/BIT130, LGS133/BIT133, LGS135/BIT135, LGS131/BIT131 and (or

Semester OfferedFall
Spring

Philosophy

PHI130 : Introduction To Philosophy

This course introduces the student to the primary branches and subsequent problems, questions, and schools of thought identified within western philosophy. Students are exposed to a number of influential philosophers and learn how to evaluate and identify inductive and deductive claims regarding philosophical arguments. There are focused emphasis on historical development and evolution of ideas over time.

Credits 3

Prerequisites

None

Semester Offered

Fall

Spring

Notes

Satisfies a Behavioral and Social Sciences general education requirement.

PHI131 : Logic

This course is an introduction to the principles of logic. Students are exposed to the formal techniques of evaluating arguments within both inductive and deductive systems. Although there is some coverage of informal logic, the thrust of the course focuses on formal logic.

Credits 3

Prerequisite Courses

[ENL101: English Composition I](#)

Semester Offered

Varies

Notes

Satisfies a Humanities & Fine Arts (or) Behavioral or Social Science general education requirement.

PHI160 : Three Great Thinkers

Students in this course will engage in a critical examination of a number of contemporary seminal ideas central to the human experience of both Eastern and Western thinkers. Students will study the writings of three major thinkers in the history of ideas. The three will be announced before pre-registration each semester and will vary from semester to semester, so the course will never be the same. Students will explore the ideas in the course for internal consistency and for the historical contexts in which they arose, as well as the actual consequences those ideas have had in human affairs.

Credits 3

Prerequisites

[ENL101](#) and a previous philosophy course

Semester Offered

Varies

Notes

Satisfies a Humanities & Fine Arts (or) Behavioral or Social Science general education requirement. May be repeated once.

PHI201 : Existentialism

This course provides students with an introduction to the philosophy of existentialism. There is a profound focus on the themes of existentialism including questions pertaining to the meaning and purpose of human existence and being in the world. Additionally, this course emphasizes historical and current societal issues and how social and cultural norms contribute to the philosophical movement known as existentialism.

Credits 3

Prerequisites

[ENL101](#) and [PHI130](#) or [PHI131](#)

Semester Offered

Spring

Notes

Satisfies a Humanities & Fine Arts (or) Behavioral or Social Science general education requirement.

PHI210 : Ethics

Ethics is a branch of philosophy that investigates human morality. This course provides an examination of the major ethical theories of western philosophy. The early part of the course focuses on Metaethics. The body of the course involves an examination of the moral arguments within both consequentialist and non-consequentialist theories.

Credits 3

Prerequisites

[PHI130](#) or [PHI131](#)

Semester Offered

Fall

Notes

Satisfies a Humanities & Fine Arts (or) Behavioral or Social Science general education requirement.

PHI241 : Selected Topics in Philosophy

This course will serve as a vehicle to either deepen students' knowledge of subjects addressed in Philosophy introductory courses or explore issues outside the traditional curriculum.

Credits 3

Prerequisites

Any introductory level Philosophy course

Semester Offered

Varies

Notes

May be repeated once for credit.

Phlebotomy

DTC102 : EKG Technician

This 30-hour course prepares the student to function as an EKG technician and assist with Holter monitoring and stress testing. Upon completion, the student will be eligible to take the national certification exam for EKG technicians.

Credits 2

Semester Offered

Fall
Spring

DTC104 : Fundamentals of Phlebotomy

This course is a combination of lecture and lab which presents the theory, application and procedures of phlebotomy skills. The student will obtain 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.

Credits 6

Prerequisites

None

Semester Offered

Fall
Spring

DTC204 : Phlebotomy Practicum

A course combined with completion of [DTC104](#) prepares the student to function as a phlebotomist and meets the eligibility criteria of the American Society of Clinical Pathologists (ASCP) for certification. This course is a combination of 120 hours of internship with 3 hours scheduled on-campus seminars.

Credits 2

Prerequisites

[DTC104](#) with passing grade of 75% or better, successful demonstration of skill proficiency and recommendation of faculty

Semester Offered

Fall
Spring

Physics

PHY106 : Survey Of Physics

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)

Credits 4

Prerequisites

MAT030 [MAT035](#), [ENL108](#) or [ESL201](#) or satisfactory
or basic skills
assessment
scores

Semester Offered

Varies

Notes

Satisfies a Natural or Physical Science general education requirement.

PHY151 : Physics I

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)

Credits 4

Prerequisites

MAT040 [MAT035](#), [ENL108](#) or [ESL201](#) or
or and satisfactory
MAT110 basic skills
or assessment
scores

Semester Offered

Fall
Summer

Notes

Satisfies a Natural or Physical Science general education requirement.

PHY152 : Physics II

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)

Credits 4

Prerequisites

A grade of C or better in PHY101 or PHY151

Semester Offered

Spring

Notes

Satisfies a Natural or Physical Science general education requirement.

PHY199 : Special Laboratory in the Physical Sciences

A laboratory portion of existing physical science courses that provides 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, and 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 CCCC 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.

Credits 1

Prerequisites

Completion of the non-lab portion of a transferred physical sciences course and permission of the Academic Dean.

Semester Offered

Varies

PHY211 : University Physics I

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 will be 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)

Credits 4

Prerequisites

MAT195; Co-requisite: ENL101 and MAT240

Semester Offered

Varies

Notes

Satisfies a Natural or Physical Science general education requirement.

PHY212 : University Physics II

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)

Credits 4

Prerequisites

A grade of C or better in PHY211

Semester Offered

Varies

Notes

Satisfies a Natural or Physical Science general education requirement.

Political Science

GOV101 : Comparative Politics

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.

Credits 3

Prerequisites

None

Semester Offered

Fall

Notes

Satisfies a Behavioral and Social Sciences general education requirement.

GOV102 : International Relations

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.

Credits 3

Prerequisites

ENL108 or ESL201 or satisfactory basic skills assessment scores

Semester Offered

Spring

Notes

Satisfies a Behavioral and Social Sciences general education requirement.

GOV110 : The American Presidency

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.

Credits 3

Prerequisites

None

Semester Offered

Fall

GOV111 : American Government

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.

Credits 3

Prerequisites

None

Semester Offered

Fall

Spring

Summer

Notes

Satisfies a Behavioral and Social Sciences general education requirement.

GOV241 : Selected Topics in Government

This course serves as a vehicle to either deepen students' knowledge of subjects addressed in Government introductory courses or explore issues outside the traditional curriculum.

Credits 3

Prerequisites

Any introductory level Government course

Semester Offered

Varies

Notes

May be repeated once for credit

Portuguese

PRT100 : Conversational Brazilian Portuguese

This basic conversational Brazilian Portuguese course is designed to introduce the non-native speaker of Portuguese to the four basic skills necessary to develop a working knowledge of Portuguese: understanding, speaking, reading, and writing.

Credits 3

Prerequisites

ENL108 or satisfactory basic skills assessment score

Semester Offered

Fall

Spring

PRT125 : Conversational Brazilian Portuguese II

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.

Credits 3

Prerequisite Courses

PRT100: Conversational Brazilian Portuguese

Semester Offered

Fall

Spring

Psychology

PSY100 : Psychology of Career Development

This course introduces students to the lifelong career development process. Career development theories are explored. Students gain self-knowledge through assessment of interests, abilities, values and personality. Influences on career aspirations are explored. Interpretations of success are examined. Students identify and investigate potential career options. Information is analyzed and 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 resume and cover letter. Students gain familiarity with the process and skills for employment interviewing.

Credits 1

Prerequisites

None

Semester Offered

Fall

Spring

PSY101 : General Psychology

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.

Credits 3

Prerequisites

None; [ENL108](#) or [ESL201](#) or satisfactory basic skills assessment
Co-requisite: scores

Semester Offered

Fall
Spring
Summer

Notes

Satisfies a Behavioral and Social Sciences general education requirement.

PSY201 : Child Psychology

This course focuses on important aspects of physical, cognitive, social and emotional development, occurring from the prenatal period through middle childhood. 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.

Credits 3

Prerequisite Courses

[PSY101: General Psychology](#)

Semester Offered

Fall
Spring
Summer

Notes

Satisfies a Behavioral and Social Sciences general education requirement.

PSY202 : Adolescent Psychology

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.

Credits 3

Prerequisite Courses

[PSY101: General Psychology](#)

Semester Offered

Fall
Spring

Notes

Satisfies a Behavioral and Social Sciences general education requirement.

PSY205 : Adult Psychology

This course will focus on the normative physical, cognitive, social and emotional changes throughout the adult years with consideration of the sociocultural contexts that shape what it means to be an adult. Particular attention will be given to the influences of gender, class, race, sexual orientation, and changing trends.

Credits 3

Prerequisite Courses

[PSY101: General Psychology](#)

Semester Offered

Fall

Notes

Satisfies a Behavioral & Social Science general education requirement.

PSY207 : Abnormal Psychology

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.

Credits 3

Prerequisite Courses

[PSY101: General Psychology](#)

Semester Offered

Fall
Spring
Summer

Notes

Satisfies a Behavioral and Social Sciences general education requirement.

PSY208 : Principles of Counseling & Crisis Intervention

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.

Credits 3

Prerequisite Courses

[PSY101: General Psychology](#)

Semester Offered

Fall
Spring

Notes

Satisfies a Behavioral and Social Sciences general education requirement.

PSY209 : Group Dynamics in Human Services

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.

Credits 3

Prerequisites

[PSY101](#) or [SOC106](#)

Semester Offered

Fall

Spring

PSY210 : Psychology of Grief

This course focuses on the grief process as a fundamental dimension of human experience. Topics include current theories, psychological, social, and cultural factors at the end of life, various ways loss is processed, factors that promote resilience in the face of loss, and factors contributing to serious psychological and medical outcomes. The course explores the role of the funerary ceremony in facilitating the early phase of acute grief.

Credits 3

Prerequisite Courses

[PSY101: General Psychology](#)

Semester Offered

Fall

Notes

Satisfies a Behavioral or Social Science general education requirement.

PSY212 : Human Sexuality

This course explores the physiological, psychological, and sociological aspects of human sexuality. Sexuality is considered 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, sexual lifestyles, and sexual dysfunction, among others, are discussed in an open, frank manner. Audio/visual material, internet websites, and discussion forums augment the textbook and lecture content.

Credits 3

Prerequisite Courses

[PSY101: General Psychology](#)

Semester Offered

Fall

Spring

Summer.

Notes

Satisfies a Behavioral and Social Sciences general education requirement.

PSY214 : Research Methods in Psychology

In this course, students will learn how to develop research questions, review existing literature (online databases and physical locations), design studies (both qualitative and quantitative), select samples from populations, formulate a hypothesis, operationalize variables, ensure the validity and reliability of an experiment, analyze and interpret data, summarize findings using the APA format, explore and critique research in peer-reviewed journals and in popular media, understand the importance of ethics in research and how scientific findings influence public policy.

Credits 3

Prerequisites

[PSY101](#) and [MAT025](#) or satisfactory basic skills assessment score

Semester Offered

Fall

Spring

PSY219 : Psychology Of Women

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.

Credits 3

Prerequisite Courses

[PSY101: General Psychology](#)

Semester Offered

Varies

Notes

Satisfies a Behavioral and Social Sciences general education requirement.

PSY225 : Social Psychology

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.

Credits 3

Prerequisites

[PSY101](#) or [SOC106](#)

Semester Offered

Fall

Spring

Summer

Notes

Satisfies a Behavioral and Social Sciences general education requirement.

PSY233 : Developmental Psychology: The Life Span

This course provides a survey of the physical, cognitive, sexual, social and moral issues relevant to human development across the life span.

Credits 3

Prerequisite Courses

[PSY101: General Psychology](#)

[ENL101: English Composition I](#)

Semester Offered

Fall

Spring

Summer

Notes

Satisfies a Behavioral and Social Sciences general education requirement.

PSY235 : Cognitive Psychology

This course defines and explains the major concepts and principles underlying Cognitive Psychology. Topics include the human information processing system, perception and attention, short-term memory, different aspects of long term memory, judgments, reasoning and problem solving.

Credits 3

Prerequisite Courses

[PSY101: General Psychology](#)

Semester Offered

Fall

Spring

Notes

Satisfies a Behavioral and Social Sciences general education requirement.

PSY241 : Selected Topics in Psychology

This course serves as a vehicle to either deepen student's knowledge of subjects addressed in Psychology introductory courses or explore issues outside the traditional curriculum.

Credits 3

Prerequisite Courses

[PSY101: General Psychology](#)

Semester Offered

Varies

Notes

Satisfies a Behavioral and Social Sciences general education requirement. May be repeated once for credit.

Religion

REL122 : Concepts Of Western Religion

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.

Credits 3

Prerequisites

None

Semester Offered

Spring

REL123 : Concepts Of Eastern Religion

A study of the major concepts and beliefs including Hinduism, Buddhism, Confucianism, and Taoism from historical, philosophical and cultural perspective with consideration of the influence on personal and contemporary life.

Credits 3

Prerequisites

None

Semester Offered

Fall

Summer

Science

Contact the Science Department

Pat Phelan, Administrative Assistant

Office Science 201
Phone 774.330.4363
E-mail pphelan@capecod.edu

SCI100 : Study Abroad: Ecotourism

Students study on-site biodiversity and ecotourism. The course is designed to explore the various ecosystems, flora and fauna, and cultural sites of a region following a planned itinerary. The course is intended for any student curious about travel, biodiversity, and scientific exploration.

Credits 1

Prerequisites

None

Semester Offered

Fall

Spring

SCI150 : Scientific Writing & Presentation

This course develops technical writing and presentation skills of students pursuing STEM careers. The course components are organized around: collection, evaluation, and organization of information from reliable sources; making critical summaries; writing a scientific/technical report in a recognized format (APA, MLA, IEEE, etc.); making oral and slide presentations with multimedia and poster presentations. Grammar, spelling, proofreading, and effective writing and presentation skills are emphasized.

Credits 3

Prerequisites

C- or higher in [ENL101](#)

Semester Offered

Spring

Notes

Satisfies an Interdisciplinary Studies General Education Elective.

SCI261 : Cooperative Work Experience in the Natural Sciences

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.

Credits 1-4

Prerequisites

Two 4-credit science with labs courses with a grade of C or higher and approval of the department

Semester Offered

Varies

Service Learning

SLR101 : Service Learning Option

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.

Credits 1

Corequisites

Enrollment in a college-level credit course and permission of both instructor and Service Learning coordinator

Semester Offered

Fall

Spring

Summer

Notes

May be repeated for a maximum of 3 credits.

Sociology

SOC106 : Principles of Sociology

An 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.

Credits 3

Prerequisites

None

Corequisites

[ENL108](#) or [ESL201](#) or satisfactory basic skills assessment scores

Semester Offered

Fall

Spring

Summer

Notes

Satisfies a Behavioral and Social Sciences general education requirement.

SOC209 : Sociology of Race & Ethnicity

This course focuses on the study of racial and ethnic relationships; analyzes the structures and circumstances which promote political, economic, and cultural domination; the role of racist ideology; the pervasive nature of prejudice and discrimination; survival and resistance strategies of the dominated.

Credits 3

Prerequisite Courses

[SOC106: Principles of Sociology](#)

Semester Offered

Spring
Summer

Notes

Satisfies a Behavioral and Social Sciences general education requirement.

SOC210 : Marriage & Family: Sociology of Family Interaction and Organization

Study of the social aspects of family life and the impact of society upon families. Topics include historical forms of family life, varieties 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.

Credits 3

Prerequisite Courses

[SOC106: Principles of Sociology](#)

Semester Offered

Fall

Notes

Satisfies a Behavioral and Social Sciences general education requirement.

SOC211 : Domestic Violence and Victimology

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.

Credits 3

Prerequisite Courses

[SOC106: Principles of Sociology](#)

Semester Offered

Fall

SOC215 : Social Problems

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.

Credits 3

Prerequisite Courses

[SOC106: Principles of Sociology](#)

Semester Offered

Fall
Spring
Summer

Notes

Satisfies a Behavioral and Social Sciences general education requirement.

SOC220 : Sociology Of Health And Health Care

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.

Credits 3

Prerequisites

[SOC106](#) or [PSY101](#) or [BIO101](#) or [BIO105](#)

Semester Offered

Varies

SOC235 : The Sociology of Gender: Roles of Men and Women in Global Perspective

Study of the changing social roles and experiences of men and women throughout the world. Family, educational, economic, political, community and cultural aspects of men and women's lives will be explored.

Credits 3

Prerequisites

[SOC106](#) or [PSY101](#)

Semester Offered

Fall

SOC241 : Selected Topics in Sociology

This course will serve as a vehicle to either deepen students' knowledge of subjects addressed in Sociology introductory courses or explore issues outside the traditional curriculum.

Credits 3

Prerequisites

Any introductory level Sociology or Anthropology course

Semester Offered

Fall
Spring

Notes

May be repeated once for credit.

Spanish

SPN100 : Conversational Spanish

This basic conversational Spanish course is designed to introduce the non-native speaker of Spanish to the four basic skills necessary to developing a working knowledge of Spanish: understanding, speaking, reading, and writing. The emphasis is on speaking and understanding spoken Spanish.

Credits 3

Prerequisites

Satisfactory basic skills assessment score [ENL108](#) or co-requisite

Semester Offered

Fall
Spring
Summer

SPN101 : Elementary Spanish I

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.

Credits 4

Prerequisites

Satisfactory basic skills assessment score [ENL108](#) or co-requisite

Semester Offered

Fall

Notes

Satisfies a Humanities and Fine Arts general education requirement.

SPN102 : Elementary Spanish II

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)

Credits 4

Prerequisite Courses

[SPN101: Elementary Spanish I](#)

Semester Offered

Fall
Spring

Notes

Satisfies a Humanities and Fine Arts general education requirement.

SPN105 : Elementary Spanish I for Health Professionals

This is a one semester college Elementary Spanish course with focused instruction in Spanish language, culture, and health issues of relevance to health professionals working with Spanish speaking populations. The text and ancillary materials provide development of the four skills: speaking, reading, writing, and understanding Spanish.

Credits 4

Prerequisites

Satisfactory basic skills assessment score [ENL108](#) or co-requisite

Semester Offered

Varies

Notes

Satisfies a Humanities & Fine Arts general education requirement.

SPN123 : Immersion Study in Spanish Language/ Civilization

Students study Spanish language and civilization in a Spanish speaking country. Traditional class work is supplemented by cultural activities and fieldtrips.

Credits 3

Prerequisites

None

Semester Offered

Varies

SPN126 : Travel and Study in a Spanish Country

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.

Credits 1

Corequisites

Any credit Spanish class at Cape Cod Community College.

Semester Offered

Spring

Notes

One week to 10 days. May be repeated to a maximum of 4 credits.

SPN128 : Onsite Spanish Culture

A ten-day study tour in a Spanish speaking country. Visits could include Spain, Puerto Rico, Costa Rica, Ecuador, Cuba, etc.

Credits 3

Prerequisites

One semester of college Spanish with a grade of C or better

Semester Offered

Varies

SPN201 : Intermediate Spanish I

This course is for students who have completed one year of elementary college Spanish or three to four years of high school Spanish. Students read, discuss, and write about Hispanic culture and language in Spanish.

Credits 4

Prerequisites

[SPN102](#) or 3–4 years of high school Spanish

Semester Offered

Fall

Notes

Satisfies a Humanities and Fine Arts general education requirement.

SPN202 : Intermediate Spanish II

This is the second semester of the sequential intermediate college-level Spanish 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)

Credits 4

Prerequisites

[SPN201](#) or 5 years of high school Spanish

Semester Offered

Spring

Notes

Satisfies a Humanities & Fine Arts general education requirement.

SPN301 : Advanced Spanish I

This course is a survey of selected Spanish 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.

Credits 3

Prerequisite Courses

[SPN202: Intermediate Spanish II](#)

Semester Offered

Fall

SPN302 : Advanced Spanish II

This course is a survey of selected Spanish 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.

Credits 3

Prerequisite Courses

[SPN301: Advanced Spanish I](#)

Semester Offered

Spring

Theater and Dance

THR101 : Introduction To Theater

Students learn about theater history and development from an artistic, social, cultural, and experiential perspective. Students learn about trends, movements, genres, eras and the administrative and physical structure of theater.

Credits 3

Prerequisites

[ENL025](#) or satisfactory basic skills assessment score

Semester Offered

Fall

Notes

Satisfies a Humanities and Fine Arts general education requirement.

THR102 : Page To Stage: Planning Play Productions

Students consider the life cycle of a play from the page to the stage. Students read several plays from the viewpoint of the director, designers and other collaborating artists.

Credits 3

Prerequisites

None

Semester Offered

Spring/odd

THR103 : Acting I

Students learn basic acting concepts, character development, script analysis and improvisation to develop confidence and skill when performing before an audience of their peers. Through observation, practice and analysis and interpretation of scripted materials, a variety of tools and techniques for effective performance are applied to acting exercises, scenes and monologues.

Credits 3

Prerequisites

[ENL025](#) or satisfactory basic skills assessment score

Semester Offered

Fall

Spring

Summer

Notes

Satisfies a Humanities & Fine Arts general education requirement.

THR106 : Theater History

This course covers the origins and development of theater as an art form from a historic, literary, social, cultural and artistic perspective. This course allows for in-depth study of the artists, playwrights and designers who have shaped the development of theater as an art form and how they have been affected by events and trends in history.

Credits 3**Prerequisites**

ENL025 or satisfactory basic skills assessment score

Semester Offered

Spring

Notes

Satisfies a Humanities & Fine Arts general education requirement.

THR113 : Rehearsal & Performance

Rehearsal and Performance is a cross-disciplinary course where students learn the process of planning, preparing and presenting a live theatrical performance. Students employ diverse skills as members of the creative team, as performers and/or as run crew members in a college theatrical production.

Credits 3**Prerequisites**

None

Semester Offered

Fall

Notes

Satisfies a Humanities & Fine Arts general education requirement. May be repeated once for credit.

THR120 : Stagecraft & Theater Technologies

Students explore various aspects of technical theater production through research, observation and practice. Students develop skills in the design, planning, engineering, construction, and manipulation of a variety of theatrical technologies, including scenery, color mixing and paint application techniques, hanging, installation and focusing of theatrical lighting instruments, and operation of industry standard lighting, sound and video projection mapping systems for production purposes. Students gain practical experience by supporting the department's theatrical productions.

Credits 3**Prerequisites**

ENL025 and MAT025 or satisfactory basic skills assessment scores

Semester Offered

Fall

Notes

May be repeated once for credit; 6 credit maximum.

THR203 : Acting II

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.

Credits 3**Prerequisite Courses**

THR103: Acting I

Semester Offered

Spring

THR210 : Audition and Portfolio

This is a course linking the work of the performance classroom with the professional performing arts scene. Students develop audition pieces and learn auditioning techniques. Cold reading technique, monologue preparation as well as the actor's interview also are covered. Students develop resumes and choose a headshot. They attend regional auditions and engage in the process of finding work in the performing arts beyond the college setting.

Credits 1-3**Prerequisites**

THR203 or demonstrate equivalent knowledge

Semester Offered

Fall

Spring

THR262 : Cooperative Work Experience

Students work in an approved organizational setting 50 hours per credit up to 150 hours to receive practical training and experience related to the student's academic program.

Credits 1-3**Prerequisites**

THR101 and 3 additional credits in theater
 DAN102 and approval of the department.
 or

Semester Offered

Varies

Tutorial Practicum

ETU100 : Peer Tutorial Practicum (Language and Literature)

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 peer-critique, self-monitor, and tutor. The main objective is for students to become effective peer tutors and better writers.

Credits 1-3

Prerequisites

Faculty recommendation and a grade of B+ or higher in a composition course

Semester Offered

Varies

ETU101 : Reading Tutorial Practicum

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.

Credits 1-3

Prerequisites

Faculty recommendation and successful CORI/SORI clearance

Semester Offered

Fall-Spring

Notes

Contact Hours: For one credit (15 hrs): 6 classroom hours, 9 tutoring hours. For two credits (30 hrs): 6 classroom hours, 24 tutoring hours. For 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.